CITY OF SAN DIEGO

BALBOA PARK INTERNATIONAL COTTAGES

ELECTRICAL UTILITY SERVICES UPGRADES STUDY (FINAL V3)

WSP

BSE ENGINEERING

BALBOA PARK INTERNATIONAL COTTAGES

ELECTRICAL UTILITY SERVICES UPGRADES STUDY (FINAL V3)

CITY OF SAN DIEGO

PROJECT ADDRESS: 2191 PAN AMERICAN W RD.
SAN DIEGO, CA 92101

TASK ORDER NO.: 25CW06
DATE: APRIL 2, 2026

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April 2, 2026

Rand Marbinkora
City of San Diego
525 B St., Suite 1650
San Diego, CA 92101

Subject: **Balboa Park International Cottages Electrical Utility Services Upgrades Final (V3) Study**

Dear Mrs. Rand,

WSP is pleased to present the final report (version 3) documenting the results of the electrical study for the Balboa International Cottages in San Diego, California. The study evaluates the existing electrical components, code requirements, and proposed upgrades for the twenty (20) of the original early 20th-century international cottages in Balboa Park.

This report describes:

1. Field visit observations;
2. Code requirements and standards;
3. Existing electrical infrastructure;
4. Electrical upgrades and December Nights recommendations;
5. Design & construction cost estimates

If you have any questions, please do not hesitate to contact the undersigned.

Respectfully submitted,

Omar Abu Zeineh
Lead Engineer
WSP

REVISION HISTORY

VERSION	DATE	DESCRIPTION
1.	June 30, 2025	50% Draft Study
2.	September 24, 2025	90% Draft Study
3.	December 8, 2025	FINAL Study
4.	February 23, 2026	FINAL V2 Study
5.	April 2, 2026	FINAL V3 Study

PRODUCTION TEAM

CLIENT

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WSP

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1 INTRODUCTION

1.1 SCOPE OF STUDY

The electrical components of the original early 20th-century buildings are past the point of safe operations and life expectancy. This study evaluates the electrical service upgrades, electrical gear condition, and latest code requirements for nineteen (19) existing international cottages at Balboa Park. The cottages include China, Czechoslovakia, Denmark, England, Finland, France, Colombia, Germany, Hungary, Ireland, Israel, Italy, Norway, Poland, Scotland, Sweden, Ukraine, United States, United Nations, and Hall of Nations. The original scope included twenty cottages; however, France and Colombia are combined in a single cottage building, bringing the total to 19 cottages. Additional cottages including Mexico, Panama, Chamorros (Guam), India, Korea, Palestine, Peru, Philippines and Turkey were upgraded in 2017 and will be used as a basis for evaluation in this study for renovation concepts.

1.2 CODE REQUIREMENTS & STANDARDS

1. National Fire Protection Association (NFPA), latest edition
2. American National Standard Institute (ANSI)
3. California Building Code (CBC), latest edition
4. California Electrical Code (CEC), latest edition
5. California Code of Regulations (CCR) Title 24, latest edition
6. California Historical Building Code (Title 24, Part 8-9) is based on historical building status of over 50 years
7. ZEMBOP (Zero Emissions Municipal Buildings and Operations Policy)
8. Institute of Electrical and Electronic Engineers (IEEE)
9. Standard Specifications for Public Works Construction (Greenbook), 2021 edition
10. The White book, 2021 edition
11. City of San Diego Standard Drawings, 2021 edition
12. D-410 QAQC Design Review Checklist for Sewer, Water, and Storm Drain Projects
13. Other applicable codes and standards used in the City of San Diego
14. Council Policy 900-14, Sustainable Building Policy, City of San Diego Standards
15. City of San Diego Park Design Manual

2 EXISTING ELECTRICAL INFRASTRUCTURE

The existing site conditions described in this report are based on a review of as-built drawings and site visits. Additional feedback was gathered from Park and Recreation Department (P&R) staff, as well as facilities and maintenance personnel, to better understand areas of concern where ongoing electrical maintenance is typically required. City of San Diego staff expressed a concern about the condition of the electrical infrastructure serving the cottages, especially during times of peak power demand, which occurs during December Nights.

2.1 EXISTING SITE POWER DISTRIBUTION

While real time data wasn't available, due to most of the cottages not being occupied throughout the year, utility billing was used to retrieve data with the given account numbers that are listed below corresponding to existing SDG&E utility meters. However, only account #1522232203 was related to the scope of our project, which is the meter that feeds United Nations building. The other two account numbers provided aren't related to the scope of our project, based on the meter numbers in the field. The power (kW) represents the highest recorded monthly demand for each meter with peak data values from the past three years included.

1. Acct#1522232203 – United Nations Building Meter
    a. December 2022: 17.8kW
    b. December 2023: 14.6kW
2. Acct#123210088 – Not connected to any nations building.
    a. December 2022: 3.2kW
    b. December 2023: 3.3kW
3. Acct#2647232202 – Not connected to any nations building.
    a. October 2022: 83.8kW
    b. August 2023: 94.7kW
    c. June 2024: 97.3kW

Based on the review of as-built drawings and a site investigation, the following was determined regarding the site's electrical distribution from the utility transformer(s) to each meter/cottage grouping. The meters for House of Hungary, House of United Nations, House of Italy, and Hall of Nations cottages are located outside on the exterior walls of the cottages, with their individual main disconnects and panels located next to them. The existing utility transformers that feed the following meters were not observed at the site. However, under the new proposed renovation plan a new transformer will supply power to the following meters.

- Meter #6325315, 6325316, 50000841: House of United Nations & Hungary
- Meter #6825720: Hall of Nations and Italy

There is a main SDG&E electrical room (U2056072270) located behind the House of Poland, which contains seven meters that supply power to the remaining fifteen cottages located on the west area of the scope, which consistent of having 3 dedicated meters being fed to Isarael, U.S.A, and Poland cottages. The remaining 4 meters serve the other 12 cottages, with three cottages connected to each meter, which is not ideal for billing purposes. The main panels for these cottages are located inside each individual cottage. Inside the electrical room, there are only meters, and their corresponding main disconnect switches. The distribution is as follows:

- Meter #69709873: Israel
- Meter #69709874: Ukraine, Sweden, Denmark
- Meter #69709875: England, Czech and Slovak, (France & Colombia under the same cottage building)
- Meter #69709876: U.S.A
- Meter #69709877: Norway, China, Scotland
- Meter #69709880: Poland
- Meter #69709887: Finland, Germany, Ireland

A portion of the west site has undergone new construction and is now fed by a new SDG&E 75kVA transformer (D237994). The cottages include, House of Korea, House of India, House of Peru, House of Chamorros (Guam), House of Palestine, and House of Turkey, which fall outside the scope of this study.

Two additional SDG&E transformers, with capacities of 75 kVA (D237995) and 25 kVA (D116529), are located on the outside perimeter of the site. Transformer D237995 serves the recently remodeled northeast buildings House of Philippines, House of Mexico, and House of Panama, which will remain in place. Transformer D116529 was not shown on the As-Builts provided, which will be upsize to a 300 kVA under the new proposed renovation plan.

An additional transformer (PK1-157/PK1-62), is in the main electrical room that supports the renovation area, which has exceeded its expected service life. This transformer, along with the meters housed in the same room, serves as the primary power source for the fifteen of the nineteen cottages buildings included in the study. Due to its age and condition this transformer will be removed and replaced with a new 300 kVA SDG&E transformer on the exterior as part of the electrical upgrade scope.

2.2 EXISTING SITE AND INTERIOR COTTAGE LIGHTING

1. New exterior LED egress lighting was observed at most of the cottages. However, there are still some egress lightings that need to be upgraded to LED. All existing site lighting poles are 10’ poles, with a round fixture mounted at 11’6’ AFF.
2. Interior lighting varies from each cottage, ranging from LED strips lights to various ceiling mounted fixtures. Exposed conduit routing to lighting fixtures was observed. This is likely due to the wall material of wall structure to be plaster, which is not as simple to work with. All interior lighting is recommended to be replaced with LED fixtures.

2.3 EXISTING COTTAGE POWER

During the design phase, all the streetlights in the surroundings area shall be evaluated and connected to the public City's electrical system, not the cottages system. This scope includes all the cottages.

The cottages have raised concerns about the current placement of electrical panels within their buildings. In many cases, panels are in inappropriate or inaccessible areas, such as beneath bathroom sinks, at building entrances, inside kitchen cabinets, or other tight spaces that lack safe and code required access/clearance. While most of the cottages comply with the requirement for Ground Fault Circuit Interrupters (GFCIs) within six feet of a sink, a few still require upgrades to meet code.

Most cottages are equipped with a 240/120V, 70A double-pole main disconnect switch, with 10 space circuit available. However, several cottages have higher-rated panels compared to the rest, including the House of Hungary, United Nations, Hall of Nations, Italy, Ukraine, and Norway. The details are as follows:

- House of Hungary: 240/120V, 100A Main Disconnect, double-pole, 24 spaces
- House of United Nations:
    - EP1 – 240/120V, 225A Main disconnect double-pole, 42 circuit spaces
    - EP2 – 240/120V, 100A Main disconnect double-pole, 24 circuit spaces
    - EP3 – 240/120V, 200A Main disconnect double-pole, 24 circuit spaces
- Hall of Nations: 240/120V, 225A Main disconnect double-pole, 42 circuit spaces
- House of Italy: 240/120V, 100A Main disconnect double-pole, 42 circuit spaces
- House of Ukraine: 240/120V, 100A Main disconnect double-pole, 20 circuit spaces
- House of Norway: 240/120V, 60A Main disconnect double-pole, 10 circuit spaces

Additionally, the House of Hungary, United Nations, Hall of Nations, and the House of Italy are equipped with temporary cam locks, which were specifically designed to supply power during the December nights event.

2.4 EXISTING DECEMBER NIGHTS

A major factor arising from the need to upgrade the remaining cottages is the annual December nights event. The current setup is limited, with multiple extension cords creating tripping hazards throughout the area. While some vendors try to be proactive by bringing their own generators, this introduces issues with noise and air pollution. Additionally, the existing electrical system has limited capacity that forced cottages connected to the same circuit to turn off appliances to avoid tripping breakers, with an average of three cottages sharing a single circuit.

Some of the major equipment used during December nights includes hot plates and waffle makers, each typically rated at around 1,200 watts. These appliances draw significant power and are often needed in multiples to meet event demands. For example, the House of Norway has expressed a need to operate several pieces of equipment simultaneously, which frequently results in tripped circuit breakers due to insufficient electrical capacity. Similarly, the House of Denmark is limited to using only one kitchen

mixer at a time; attempting to run a second mixer causes the breaker to trip. As a result, they are forced to mix ingredients by hand, which is very intensive for the cooking demands for vendors. Due to these limitations, several cottages have resorted to using propane gas burners or tanks to support their cooking needs.

2.5 EXISTING GAS INFRASTRUCTURE

On the conducted site walk, no gas equipment was observed in the central portion of the upgrade for most of the cottages. Gas services were only observed at the House of Italy/Hall of Nations, and United Nations.

3 NEW ELECTRICAL UPGRADES

All new electrical upgrades shall comply with all applicable code requirements and standards, except for Council Policy 900-14 (Sustainable Building Policy under City of San Diego Standards). This policy does not apply to the scope, as the new upgrades do not exceed 5,000 square feet per cottage and there are no architectural or structural interior improvements.

3.1 SITE POWER DISTRIBUTION

The site will require new underground electrical distribution lines (PVC conduit) running from four newly proposed 300kVA utility transformers or four 225kVA transformers, based on the camlock placement chosen by Parks and Recreation Department (P&R). Of the nineteen cottages included in the scope, three of the transformers will feed five cottages each, while the fourth transformer will serve the remaining four cottages. Each cottage will be provided with a new service, entrance feeder line, and a dedicated utility meter. This setup allows for greater leasing flexibility for Parks and Recreation Department (P&R), as each cottage can be leased independently without requiring future electrical changes. It also ensures that tenants are individually responsible for their own utility usage, with separate meters allowing the utility provider to bill each tenant directly. Overall, this configuration simplifies property management and provides long-term flexibility for future leasing needs. Notably, the House of France and the House of Colombia share a single feed, as they share the same building cottage. Where new electrical equipment is installed, various measures should be considered to minimize visual impact on the public. The distribution of cottages served by each transformer is as follows:

- NEW XMFR1- House of Ukraine, House of U.S, House of Poland, House of Ireland, House of Finland
- NEW XMFR2- House of Germany, House of Israel, House of France/House of Colombia, House of England, House of Czech & Republics
- NEW XMFR3- House of Sweeden, House of Denmark, House of Norway, House of China, House of Scotland
- REPLACED XMFR4- Hall of Nations, House of Italy, House of United Nations, House of Hungary

3.2 SITE LIGHTING

All new site lighting is expected to meet current code requirements and bring existing fixtures up to modern standards. As part of this study, all site lighting was addressed as a one for one replacement. Further evaluation of fixture placement and photometric calculations to take place during the design phase to determine if additional fixtures are required. The goal is to upgrade all lighting to energy efficient LED fixtures while improving visibility and safety along public walkways. All lighting poles should match the historic character throughout the site, however with a new LED fixture integrated. Site lighting fixtures in the egress and walkway areas should achieve an average illumination level of 1 footcandle (FC) to meet safety and code requirements in pedestrian walkway areas. Lighting controls will meet the latest California Title 24 Energy Code requirements including motion sensors and/or timeclocks.

3.3 BUILDING POWER

To align with the 2017 project standards, each electrical panel should be specified as a 400A bus with a 200A main breaker, rated at 240/120V, single-phase, 3-wire, with 24 circuit positions. The short-circuit

(kAIC) rating will be finalized during the design phase; however, a 42kAIC rating is assumed for the purposes of this study and cost estimating. Electrical demand is anticipated to be approximately 160A per cottage, with the exception for the added load from the cam locks during December nights. Each cottage will have a dedicated utility meter and main panel surface mounted on the exterior. The locations of the new meters and panel boards have been designed to be relatively close to the existing panels to ensure feasibility during construction. All existing receptacles will be replaced with new devices, however, will need to be assessed during design, as it was not assessed in this study. In accordance with current safety code requirements, all kitchen receptacles and any receptacles located within six feet of a sink must be GFCI-protected. During the design phase, careful consideration should be given to whether the existing wiring can be reused. Since these buildings are over 70 years old, the existing wiring may include knob-and-tube, cloth covered Romex, or more current plastic Romex running along interior walls. The final decision on whether to reuse the existing wiring or perform a full rewiring will be made during design, based on an evaluation of the existing conductors. The electrical designer can make statements on existing conductors, but it is the owner's decision to replace existing wiring or not. In addition, any existing gas-power kitchen equipment should be converted to electricity to comply with the City's Zero Emissions Municipal Buildings and Operations Policy (ZEMBOP), this includes:

- Range/Oven to induction type
- Water Heater to all electric type

All HVAC units are considered in the load calculations tables on the Appendices.

3.4 BUILDING LIGHTING

All new interior cottage lighting should utilize LED fixtures that are compatible with the existing historic character of the site. As part of this study, all lighting fixtures at each cottage was addressed as a one for one replacement. Further evaluation of fixture placement and photometric calculations to take place during the design phase to determine if additional fixtures are required. To improve energy efficiency, distributed nLight lighting controls should be incorporated per the City of San Diego Standards. These should include motion sensors for occupancy-based control, daylight sensors where natural light is available, and 0–10V dimming to allow for adjustable light levels based on usage. All lighting controls shall comply with the latest California Title 24 Energy Code requirements. Interior lighting was not assessed during this study; the panel schedule and luminaire schedule were referenced from the 2017 upgrades and were used as a base for all new cottages.

3.5 DECEMBER NIGHTS BASE PLAN

On December Nights, an additional 50A camlock power connection will be provided at the exterior front door entrance of each cottage, with anticipated electrical load growth estimated between 25% and 50%.

After further discussion with the City of San Diego, it has been decided to provide one individual camlock for each cottage within the scope, which is the base design plan. Mirroring the upgraded cottages in 2017 on the placement of the 50A camlocks, with a dedicated labeled disconnect breaker at the main panelboard for each cottage. Reference Appendix F for a typical cottage panel schedule. This would allow for easier billing per meter and enable each tenant to bill any vendor that connects to their respective camlock. However, this option does not address tripping hazards to the public, as it would still require multiple extension cords for vendors operating nearby. A key advantage of this approach is that it avoids the need for trenching through public access areas or rights-of-way. On the downside, it would significantly impact load calculations, as shown in Tables 4-7. It will require the installation of three new

300 kVA pad-mounted SDG&E transformers and the upsizing of one existing transformer to 300 kVA. Coordination with SDG&E will be required during the design phase, as they will determine the final sizing for the three new transformers and the upgraded existing unit.

3.6 DECEMBER NIGHTS ADDITIONAL RECOMMENDATION 1

Based on Figure 3-1 received from the City of San Diego; it is recommended to distribute a few cam locks in the center areas typically occupied by vendors during the event. This would eliminate the need for extension cords near public right of ways thereby mitigating potential tripping hazards for the public. It would mirror the existing camlock setup near the House of Hungary, with additional units placed centrally within the vendor areas, housed in pedestal cabinets in this configuration. A dedicated labeled disconnect breaker will be provided at the main panelboard for each cottage, allowing Parks and Recreation Department (P&R) to operate it when in use. Reference Appendix F for a typical cottage panel schedule. To avoid a greater impact on the load and to keep the sizing of the new and replacement utility transformers lower than 300 kVA to be 225 kVA, not all cottages will have individual camlock connections in these areas. Refer to Appendix C for the site plan layout.

3.7 DECEMBER NIGHTS ADDITIONAL RECOMMENDATION 2

Another recommendation to consider is to have the camlock on the exterior of each cottage with a stub-up and then PVC conduit (of diameter to allow camlock plug to be pulled through) buried to a securable handhole in a preferred field location provided with pull cord. Conduit can be plugged at both ends while not in use to eliminate foreign items (dirt, debris, insects, rodents) from getting into the conduit causing snaking (line and cord pulling) issues when intended for use. Refer to this video (or link below) for an example of this type of work and to Appendix D for the site plan layout. A dedicated labeled disconnect breaker will be provided at the main panelboard for each cottage, allowing Parks and Recreation Department (P&R) to operate it when in use. Reference Appendix F for a typical cottage panel schedule.

https://www.youtube.com/watch?v=HM66WlW3xJc

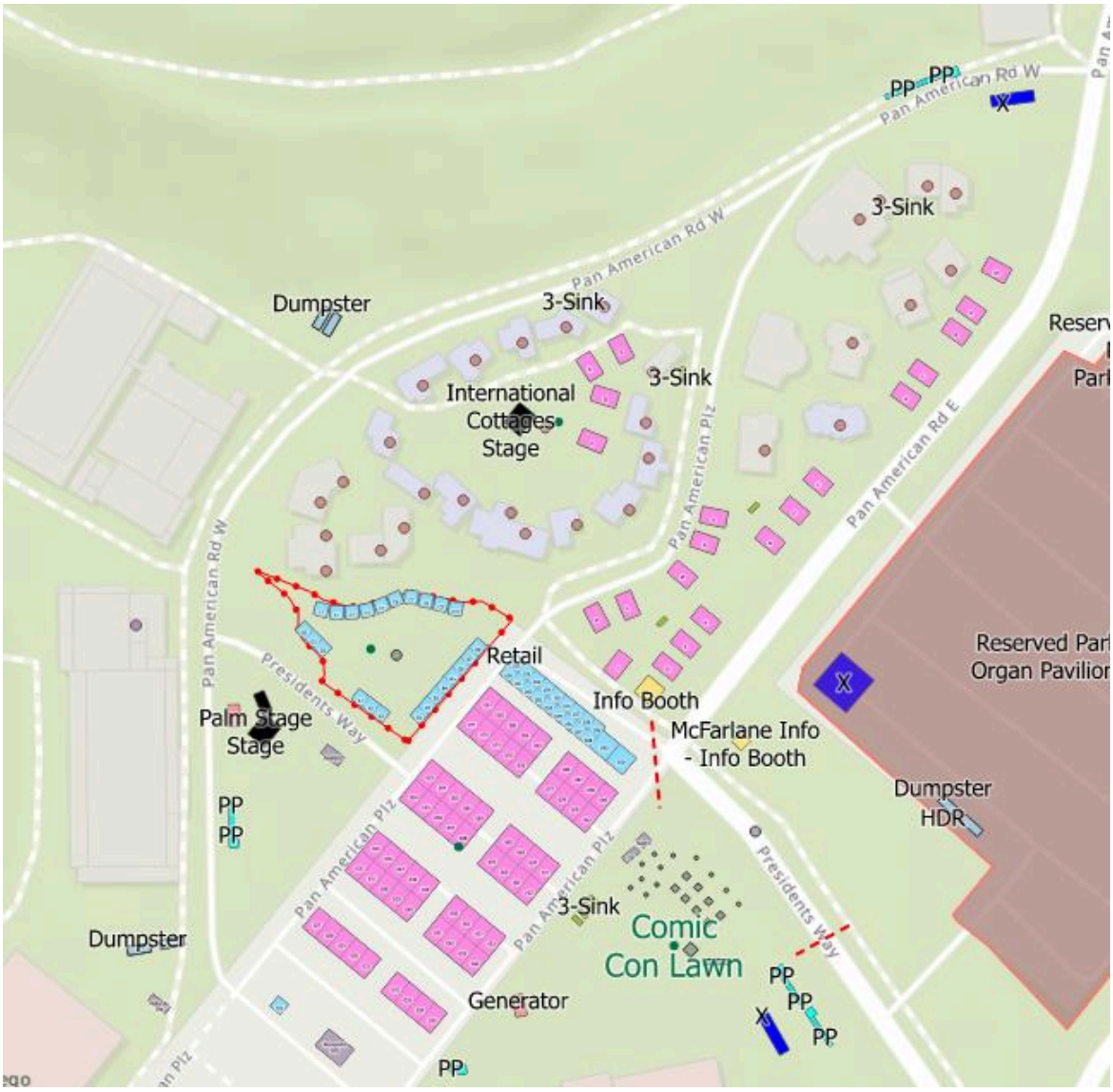
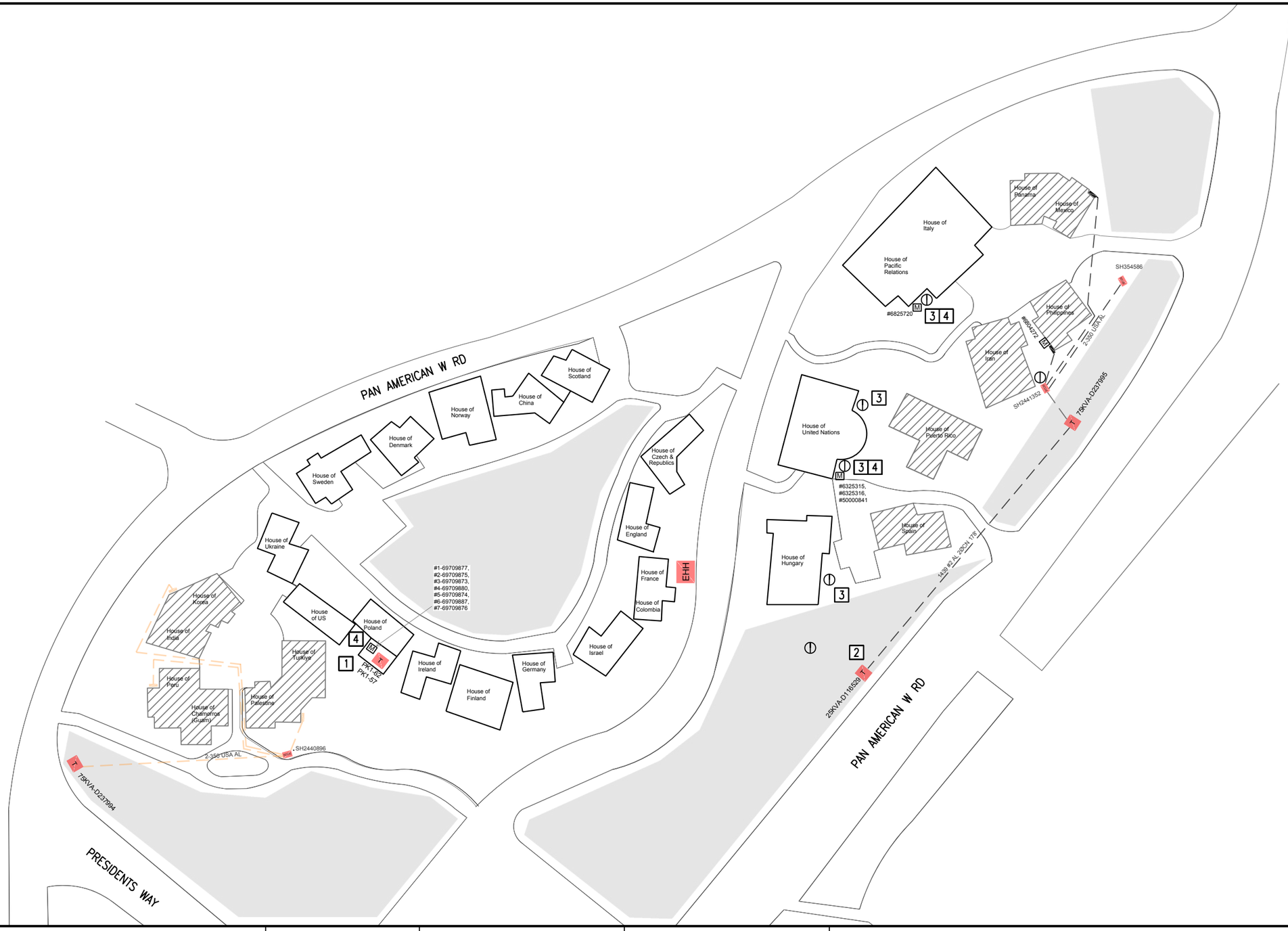


Figure 3-1: Current layout of vendor locations during December Nights

APPENDIX

A EXISTING ELECTRICAL PLAN



LEGEND:

SDGE	SDGE PULLBOX
— —	SDGE ELECTRIC ASSET MAP CONDUIT LAYOUT
M	EXISTING ELECTRICAL METER
EHH	ELECTRICAL HANDHOLE
T	MOUNTED PAD TRANSFORMER
	EXISTING CAMLOCKS
	DECEMBER NIGHT VENDOR LOCATIONS
— —	2017 UPGRADED CONDUIT LAYOUT
	2017 SERVICE ENTRANCE
	OUT OF SCOPE

KEY NOTES:

1	TRANSFORMERS TO BE DEMOLISH AND REPLACED TO EXTERIOR WITH NEW SDG&E TRANSFORMERS
2	DEMOLISH EXISTING MOUNTED PAD TRANSFORMER AND REPLACE IT WITH A NEW SDG&E TRANSFORMER
3	DISCONNECT AND REMOVE EXISTING CAMLOCKS
4	DISCONNECT AND REMOVE EXISTING METERS

PLAN NORTH

0 25' 50' 100'

SCALE: 1"=50'-0"

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BSE PROJECT NO. XX-XXX-XXXX

SCALE: 1" = 50'-0"

DWN: EP

CHK: BR

BALBOA PK INTL COTTAGE STUDY

SHEET NAME: EXISTING ELECTRICAL SITE PLAN

DWG REF:

SKT NO: E-1

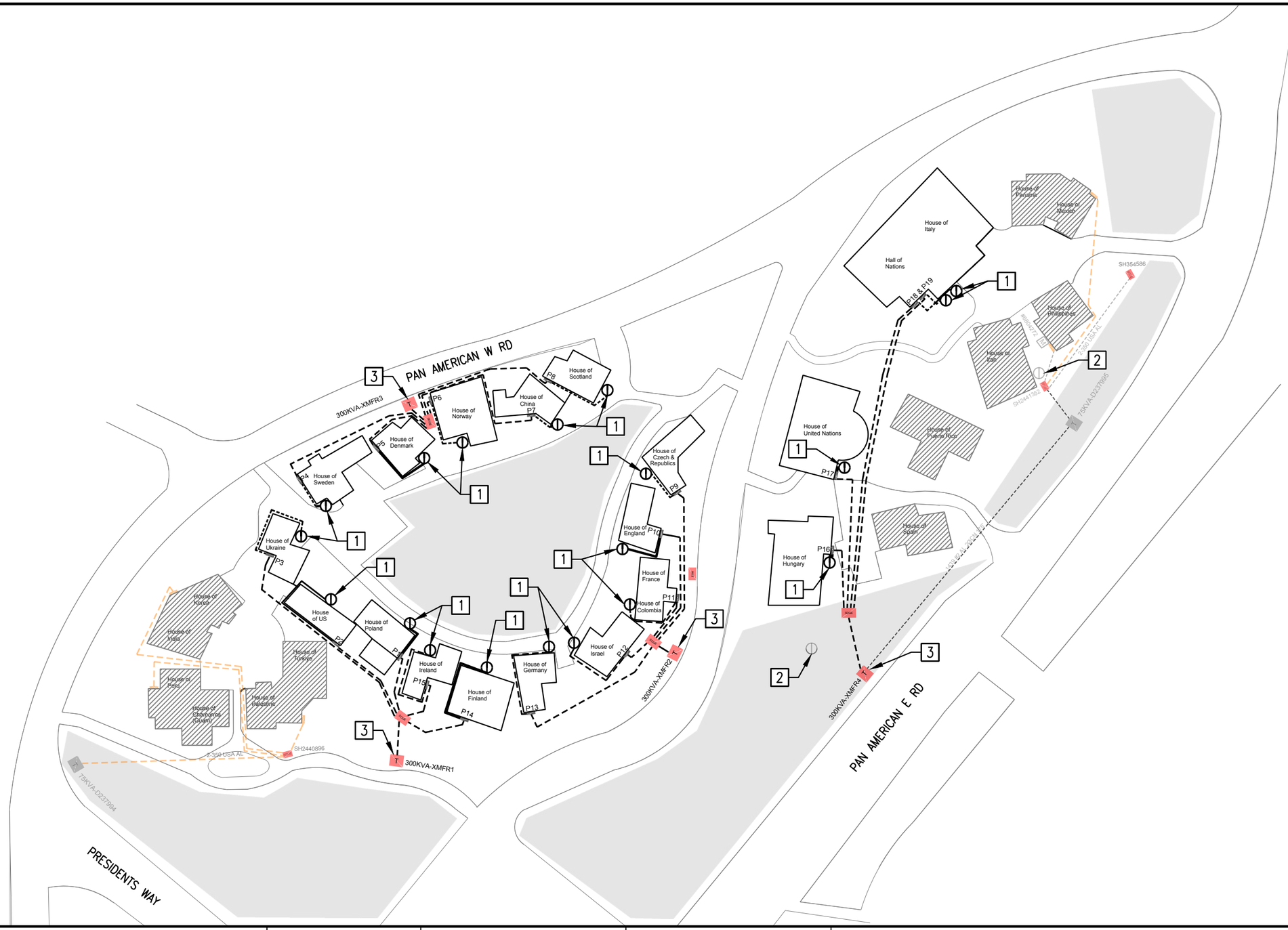
REV:

DATE: 08/25/25

FILE NAME: K:\PROJECTS\WSP - 0373\24-1291 BALBOA PK INTL COTTAGES STUDY\DWGS\CAD V20XX\ELEC\373-1291-E100.DWG PLOT DATE: 2/2/2026 3:33 PM PRINT BY: JONATHAN MARTINEZ

APPENDIX

B BASE RENOVATION PLAN



LEGEND:	
SDGE	SDGE PULLBOX
— —	SDGE ELECTRIC ASSET MAP CONDUIT LAYOUT
M	EXISTING ELECTRICAL METER
EHH	ELECTRICAL HANDHOLE
T	EXISTING MOUNTED PAD TRANSFORMER
T	MOUNTED PAD TRANSFORMER
	EXISTING CAMLOCKS
	PROPOSED CAMLOCKS
	DECEMBER NIGHT VENDOR LOCATIONS
	2017 UPGRADED CONDUIT LAYOUT
	2017 SERVICE ENTRANCE
	PROPOSED NEW CONDUIT LAYOUT
	PROPOSED NEW SERVICE ENTRANCE WITH NEW METER
	OUT OF SCOPE

KEY NOTES:	
1	NEW 240V, 2P, 50A CAMLOCKS
2	EXISTING CAMLOCK TO REMAIN IN PLACE
3	UPGRADED INSTALLATION OF NEW 300KVA SDG&E PAD MOUNTED TRANSFORMERS

0 25' 50' 100'
SCALE: 1"=50'-0"

PLAN NORTH

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SCALE: 1" = 50'-0"	BALBOA PK INTL COTTAGE STUDY	DWG REF:	SKT NO: E-2
DWN: EP	SHEET NAME: BASE RENOVATION PLAN	REV:	DATE: 08/25/25
CHK: BR			

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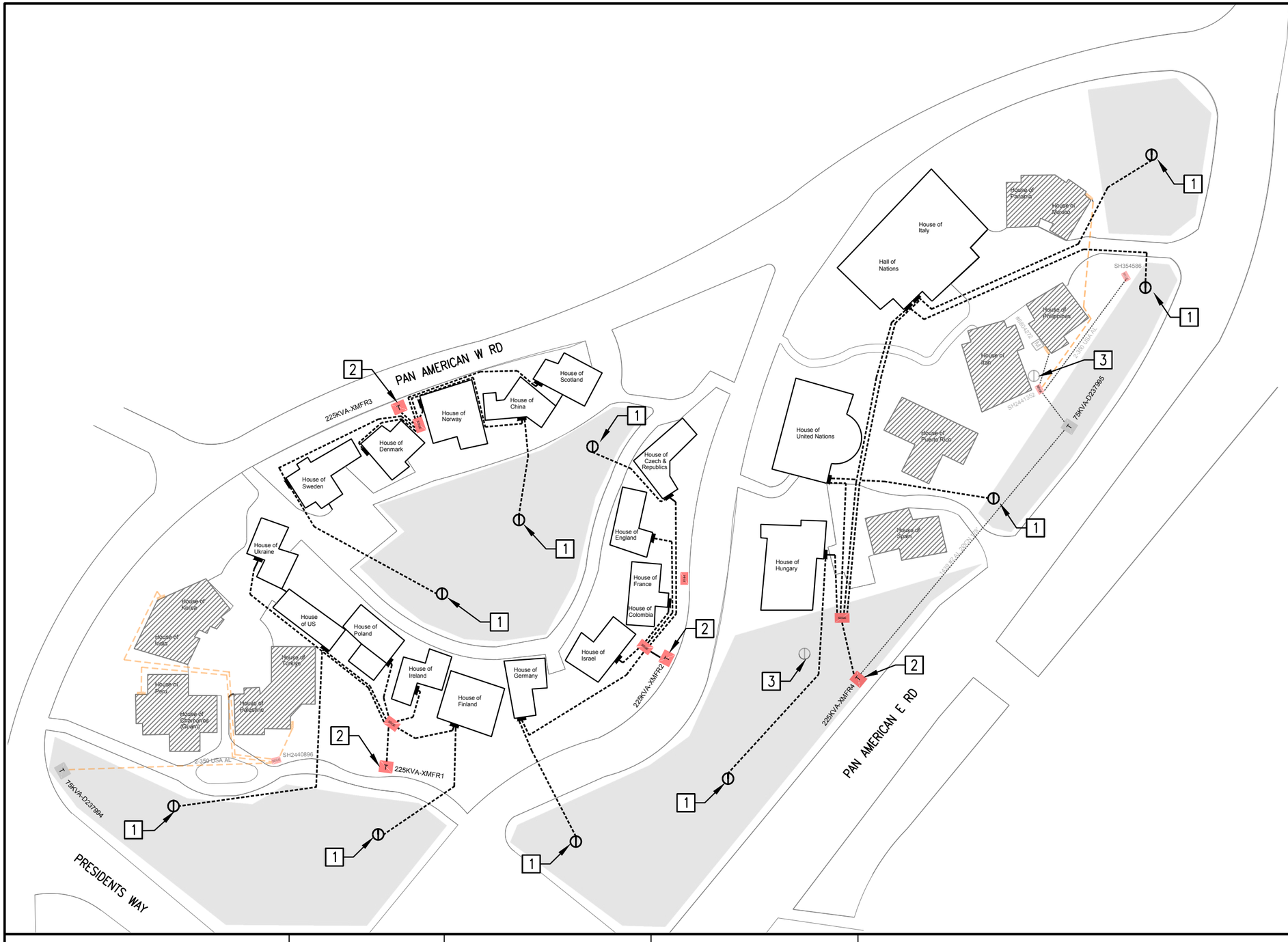
APPENDIX

C

DECEMBER NIGHTS ADDITIONAL RECCOMENDATION 1



LEGEND:	
SDGE	SDGE PULLBOX
— —	SDGE ELECTRIC ASSET MAP CONDUIT LAYOUT
M	EXISTING ELECTRICAL METER
EHH	ELECTRICAL HANDHOLE
T	EXISTING MOUNTED PAD TRANSFORMER
T	MOUNTED PAD TRANSFORMER
	EXISTING CAMLOCKS
	PROPOSED CAMLOCKS
	DECEMBER NIGHT VENDOR LOCATIONS
	2017 UPGRADED CONDUIT LAYOUT
	2017 SERVICE ENTRANCE
	PROPOSED NEW CONDUIT LAYOUT
	PROPOSED NEW SERVICE ENTRANCE WITH NEW METER
	OUT OF SCOPE

KEY NOTES:	
1	NEW 240V, 2P, 50A CAMLOCKS
2	UPGRADED INSTALLATION OF NEW 225KVA SDG&E PAD MOUNTED TRANSFORMERS
3	EXISTING CAMLOCK TO REMAIN IN PLACE

0 25' 50' 100'
SCALE: 1"=50'-0"

PLAN NORTH

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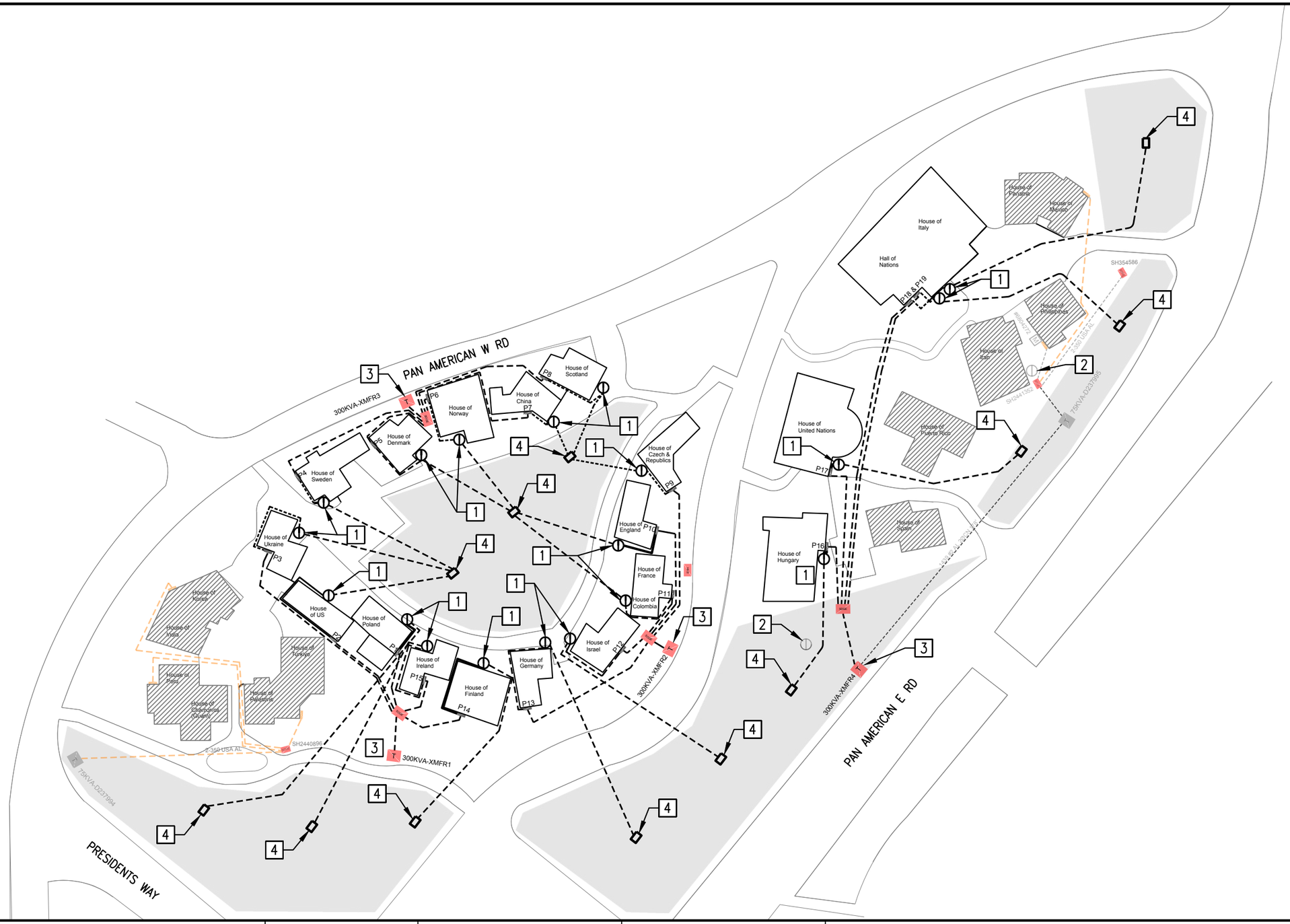
SCALE: 1" = 50'-0"	BALBOA PK INTL COTTAGE STUDY
DWN: EP	SHEET NAME: DECEMBER NIGHTS ADDITIONAL RECOMMENDATION 1
CHK: BR	
DWG REF:	SKT NO: E-2.1
REV:	DATE: 08/25/25

FILE NAME: K:\PROJECTS\WSP - 0373\24-1291 BALBOA PK INTL COTTAGES STUDY\DWGS\CAD V20XX\ELEC\373-1291-E101.ADDEDTRANSFORMERS.DWG PLOT DATE: 2/2/2026 3:33 PM PRINT BY: JONATHAN MARTINEZ

APPENDIX

D

DECEMBER NIGHTS ADDITIONAL RECCOMENDATION 2



LEGEND:	
SDGE	SDGE PULLBOX
— —	SDGE ELECTRIC ASSET MAP CONDUIT LAYOUT
M	EXISTING ELECTRICAL METER
EHH	ELECTRICAL HANDHOLE
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T	MOUNTED PAD TRANSFORMER
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	PROPOSED CAMLOCKS
	DECEMBER NIGHT VENDOR LOCATIONS
	2017 UPGRADED CONDUIT LAYOUT
	2017 SERVICE ENTRANCE
	PROPOSED NEW CONDUIT LAYOUT
	PROPOSED NEW SERVICE ENTRANCE WITH NEW METER
	OUT OF SCOPE

KEY NOTES:	
1	NEW 240V, 2P, 50A CAMLOCKS
2	EXISTING CAMLOCK TO REMAIN IN PLACE
3	UPGRADED INSTALLATION OF NEW 300KVA SDG&E PAD MOUNTED TRANSFORMERS
4	PROPOSED NEW HANDHOLE. ROUTE UNDERGROUND CONDUIT FROM 50A CAMLOCK TO HANDHOLE FOR DECEMBER NIGHT EVENT CABLE ROUTING.

PLAN NORTH

0 25' 50' 100'

SCALE: 1"=50'-0"

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BSE PROJECT NO. XX-XXX-XXXX

SCALE: 1" = 50'-0"

DWN: EP

CHK: BR

BALBOA PK INTL COTTAGE STUDY

SHEET NAME:

DECEMBER NIGHTS ADDITIONAL RECOMMENDATIONS 2

DWG REF:

SKT NO: E-2.2

REV:

DATE: 08/25/25

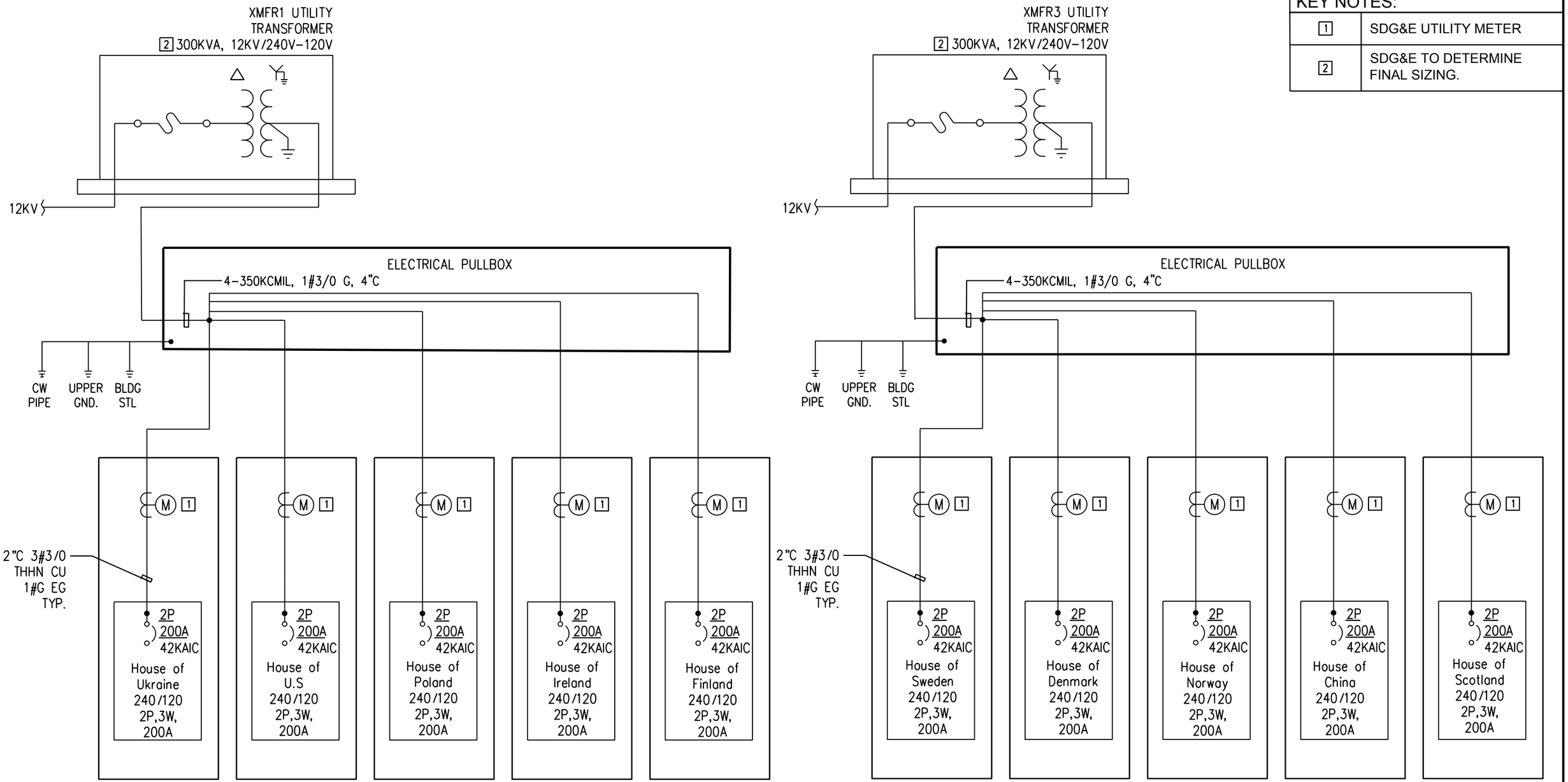
FILE NAME: K:\PROJECTS\WSP - 0373\24-1291 BALBOA PK INTL COTTAGES STUDY\DWGS\CAD V20XX\ELEC\373-1291-E-2.2.DWG PLOT DATE: 2/2/2026 3:33 PM PRINT BY: JONATHAN MARTINEZ

APPENDIX

E

RENOVATION SINGLE LINE DIAGRAMS

KEY NOTES:	
1	SDG&E UTILITY METER
2	SDG&E TO DETERMINE FINAL SIZING.



1 SINGLE LINE DIAGRAM

SCALE: NO SCALE

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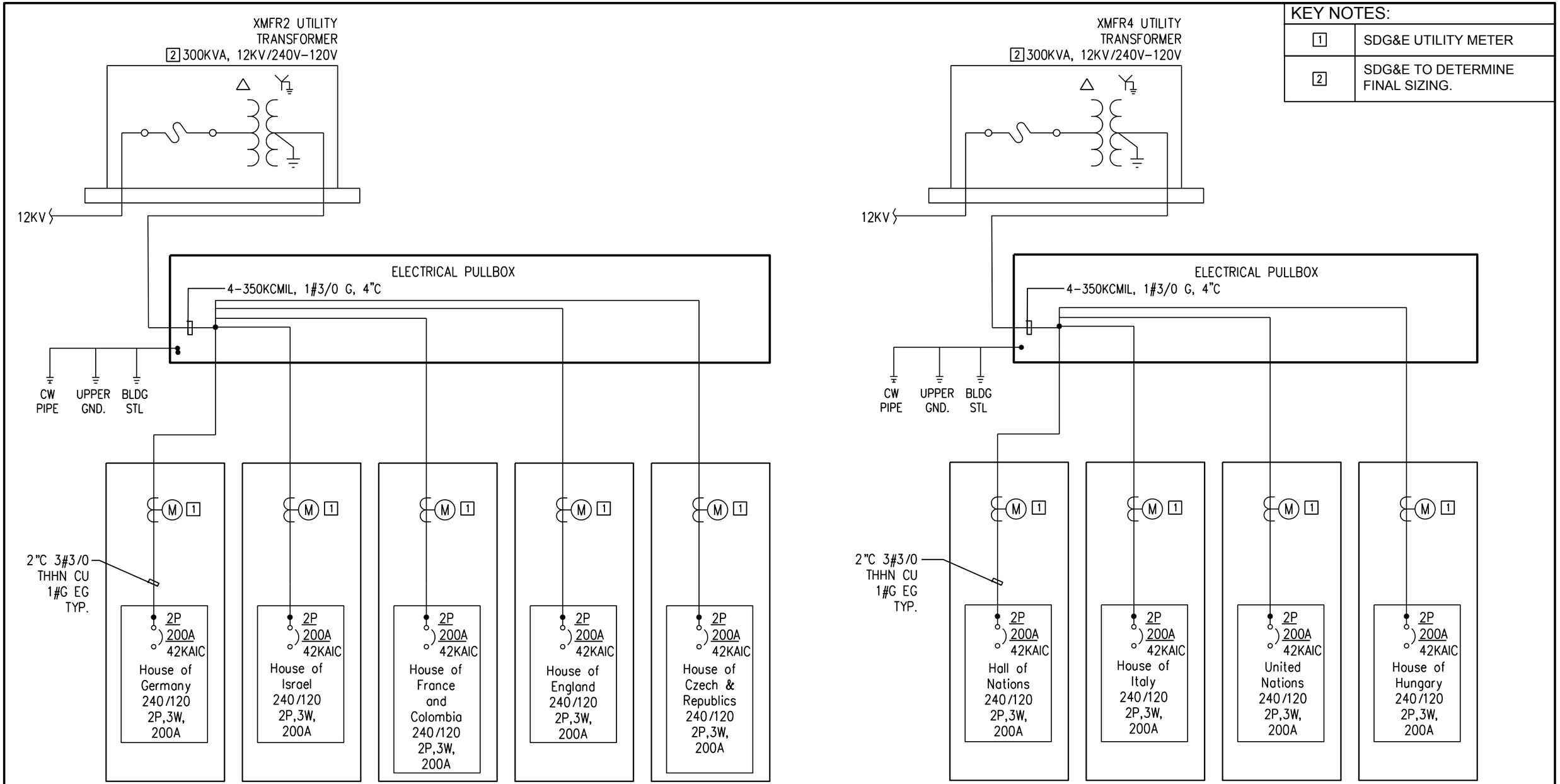
SCALE: NTS	BALBOA PK INTL COTTAGE STUDY
DWN: EP	SHEET NAME: SINGLE LINE DIAGRAM
CHK: BR	
DWG REF:	SKT NO: E-3
REV:	DATE: 08/25/25

FILE NAME: K:\PROJECTS\WSP - 0373\24-1291 BALBOA PK INTL COTTAGES STUDY\DWGS\CAD V20XX\ELEC\373-1291-E102.DWG PLOT DATE: 2/2/2026 3:33 PM PRINT BY: JONATHAN MARTINEZ

KEY NOTES:	
1	SDG&E UTILITY METER
2	SDG&E TO DETERMINE FINAL SIZING.



1 SINGLE LINE DIAGRAM CONTINUATION

SCALE: NO SCALE

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SCALE: NTS	BALBOA PK INTL COTTAGE STUDY
DWN: EP	SHEET NAME: SINGLE LINE DIAGRAM CONTINUATION
CHK: BR	
DWG REF:	SKT NO: E-4
REV:	DATE: 08/25/25

FILE NAME: K:\PROJECTS\WSP - 0373\24-1291 BALBOA PK INTL COTTAGES STUDY\DWGS\CAD V20XX\ELEC\373-1291-E102.DWG PLOT DATE: 2/2/2026 3:33 PM PRINT BY: JONATHAN MARTINEZ

APPENDIX

F

PANEL SCHEDULE

TYPICAL COTTAGE PANEL

ROOM EXTERIOR BUILDING MOUNTED
MOUNTING SURFACE
FED FROM UTILITY
NOTE

VOLTS 240/120V 2P 3W
BUS AMPS 400
NEUTRAL 100%

AIC 42,000
MAIN BKR 200
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD VA A	LOAD VA B	CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD VA A	LOAD VA B
1	20/1	INTERIOR LIGHTING (4' LED STRIP)	188		2	20/1	REFRIGERATOR	1,200	
3	20/1	INTERIOR LIGHTING (3" LED DOWNLIGHT)		100	4	20/1	EXHAST FAN		900
5	20/1	INTERIOR TRACK LIGHTING	62.5		6	20/1	FAN COIL	400	
7	20/1	EXTERIOR LIGHTING (LED WALL MOUNTED)		25	8	20/2	HEAT PUMP		1,700
9	20/1	INTERIOR RECEPTACLES	1,440		10	|	–	1,700	
11	25/1	EXTERIOR RECEPTACLES		2,400	12	20/2	WATER HEATER		2,000
13	50/1	KITCHEN RECEPTACLES	5,600		14	|	–	2,000	
15	20/1	GARBAGE DISPOSAL		800	16	50/2	CAMLOCK		4,800
17	20/1	MICROWAVE	1,500		18	|	–	4,800	
19	20/1	RANGE HOOD		400	20	20/1	SPARE		0
21	90/2	RANGE/OVEN (INDUCTION)	8,000		22	20/1	SPARE	0	
23	|	–		8,000	24	20/1	SPARE		0
							TOTAL CONNECTED KVA BY PHASE	26,900	21,100

	CONN VA	CALC VA			CONN VA	CALC VA	
LIGHTING	376	469	(125%)	RECEPTACLES	11,700	10,900	(50%>10)
				NONCONTINUOUS	35,900	35,900	(100%)
				TOTAL LOAD		47,200	
				BALANCED LOAD		197 A	

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SCALE: NTS
DWN: EP
CHK: BR

BALBOA PK INTL COTTAGE STUDY

SHEET NAME: PANEL SCHEDULES

DWG REF:
REV:

SKT NO: E-5
DATE: 08/25/25

FILE NAME: K:\PROJECTS\WSP - 0373\24-1291 BALBOA PK INTL COTTAGES STUDY\DWGS\CAD V20XX\ELEC\373-1291-E6002.DWG PLOT DATE: 2/2/2026 3:33 PM PRINT BY: JONATHAN MARTINEZ

APPENDIX

G LUMINAIRE SCHEDULE

KEY NOTES:	
1	PROVIDED FOR REFERENCE ONLY

1

LUMINAIRE - NEW SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS
A		30W LED 4000K MIN. 3000 LUMENS	4' LED STRIP LIGHT, WITH 0-10V CONTROLS.	ELECTRONIC	CEILING	LITHONIA LIGHTING 2L2N L48 3000LM MDD MVOLT 40K 80CRI WH	30	120V 1P 2W
B		11W LED 2700K MIN. 4000 LUMENS	3" LED DOWNLIGHT, WITH 0-10V CONTROLS.	ELECTRONIC	CEILING	LITHONIA LIGHTING 58PMW LED 27K 80CRI L3LED T24	11	120V 1P 2W
C		50W LED 2700K MIN. 3300 LUMENS	10' SINGLE CIRCUIT TRACK W/6 LED FIXTURES, WITH 0-10V CONTROLS.	ELECTRONIC	CEILING	LITHONIA LIGHTING (6) LITHBELL ORB (I) LTS10MM	50	120V 1P 2W
D		9W LED 2700K MIN. 2000 LUMENS	LED WALL MOUNT EXTERIOR, WITH 0-10V CONTROLS.	ELECTRONIC	SURFACE	HINKLEY LIGHTING RALEY 1600MB/DSLM-40, LED OPTION	9	120V 1P 2W
E		7W LED 2700K MIN. 2000 LUMENS	LED WALL MOUNT EXTERIOR, WITH 0-10V CONTROLS.	ELECTRONIC	SURFACE	MAXIM LIGHTING 556-42WFBO - RADCLIFFE LED	7	120V 1P 2W
F		14W LED 2700K MIN. 5000 LUMENS	FLUOR WALL MOUNT EXTER, WITH 0-10V CONTROLS.	ELECTRONIC	SURFACE	MAXIM LIGHTING 556-42WFBO - RADCLIFFE LED	14	120V 1P 2W
G		14W LED 2700K MIN. 5000 LUMENS	FLUOR WALL MOUNT EXTER, WITH 0-10V CONTROLS.	ELECTRONIC	SURFACE	MINKA LAVERY LIGHITNG 8887-A34-PL MALLORCA	14	120V 1P 2W
H		7W LED 2700K MIN. 5000 LUMENS	LED WALL SCONCE, WITH 0-10V CONTROLS.	ELECTRONIC	SURFACE	AS SELECTED BY OWNER	7	120V 1P 2W
P		60W LED 2700K MIN. 5000 LUMENS	LED POLE MOUNT EXTERIO, WITH 0-10V CONTROLS.	ELECTRONIC	10' POLE ON CONCRETE BASE	SPRING CITY ELECTRICAL MANF CO. ALMBLB-LE060/EV4/X2-27-CRS-YF18-FAC-8C-MI-CU POLE AP3CPS-19-1000-CC-TN288/500-325/INM-CU	60	120V 1P 2W
X1		(2) 6W LED	EMERGENCY LIGHT	ELECTRONIC	SURFACE	LITHONIA LIGHTING AFN W, BATTERY BACKUP		120V 1P 2W
X2		(2) 5.5W LED	EMERGENCY LIGHT	ELECTRONIC	SURFACE	LITHONIA LIGHTING AFN W EXIT FWD UL WET, FORWARD THROW, BATTERY BACKUP		120V 1P 2W
X3		1W LED	ILLUMINATED EXIT SIGN	ELECTRONIC	SURFACE	LITHONIA LIGHTING TLE WI R ELN, BATTERY BACKUP		120V 1P 2W

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BSE PROJECT NO. XX-XXX-XXXX

SCALE: NTS

DWN: EP

CHK: BR

BALBOA PK INTL COTTAGE STUDY

SHEET NAME: LUMINAIRE SCHEDULE

DWG REF:

SKT NO: E-6

REV:

DATE: 08/25/25

FILE NAME: K:\PROJECTS\WSP - 0373\24-1291 BALBOA PK INTL COTTAGES STUDY\DWGS\CAD V20XX\ELEC\373-1291-E001.DWG PLOT DATE: 2/2/2026 3:33 PM PRINT BY: JONATHAN MARTINEZ

APPENDIX

H LOAD CALCULATIONS

LOAD CALCULATIONS

Cottage Loads	Quantity	VA per Unit	Demand Factor*	Total Load (VA)
Interior Lighting (4' LED Strip)	5	30	1.25	187.5
Interior Lighting (3" LED Downlight)	8	10	1.25	100
Interior Track Lighting	1	50	1.25	62.5
Exterior Lighting (LED Wall Mounted)	2	10	1.25	25
Interior Receptacles	8	180	1	1440
Exterior Receptacles	2	1200	1	2400
Kitchen Receptacles	7	800	1	5600
Garbage Disposal	1	800	1	800
Microwave	1	1500	1	1500
Range Hood	1	400	1	400
Range / Oven (Induction)	1	16000	1	16000
Refrigerator	1	1200	1	1200
Exhaust Fan	1	900	1	900
Fan Coil	1	400	1	400
Heat Pump	1	3400	1	3400
Water Heater	1	4000	1	4000
**** Demand Factors are per CEC.***			Total VA	38415
			Total Amps @ 240V, 1PH	160

Table 1. Load calculations for each cottage without 50A cam lock.

Cottage Loads	Quantity	VA per Unit	Demand Factor*	Total Load (VA)
Interior Lighting (4' LED Strip)	5	30	1.25	187.5
Interior Lighting (3" LED Downlight)	8	10	1.25	100
Interior Track Lighting	1	50	1.25	62.5
Exterior Lighting (LED Wall Mounted)	2	10	1.25	25
Interior Receptacles	8	180	1	1440
Exterior Receptacles	2	1200	1	2400
Kitchen Receptacles	7	800	1	5600
Garbage Disposal	1	800	1	800
Microwave	1	1500	1	1500
Range Hood	1	400	1	400
Range / Oven (Induction)	1	16000	1	16000
Refrigerator	1	1200	1	1200
Exhaust Fan	1	900	1	900
Fan Coil	1	400	1	400
Heat Pump	1	3400	1	3400
Water Heater	1	4000	1	4000
50A Cam lock	1	9600	1	9600
**** Demand Factors are per CEC.*** ****80% load calc. on cam lock***			Total VA	48015
			Total Amps @ 240V, 1PH	200

Table 2. Load calculations with 50A cam lock connected.

NEW COTTAGE METER # LABELING	
Meter 1 - House of Ukraine (#)	Meter 11 - House of Sweeden (#)
Meter 2 - House of U.S (#)	Meter 12 - House of Denmark (#)
Meter 3 - House of Poland (#)	Meter 13 - House of Norway (#)
Meter 4 - House of Ireland (#)	Meter 14 - House of China (#)
Meter 5 - House of Finland (#)	Meter 15 - House of Scotland (#)
Meter 6 - House of Germany (#)	Meter 16 - Hall of Nations (#)
Meter 7 - House of Israel (#)	Meter 17 - House of Italy (#)
Meter 8- House of France and Colombia (#)	Meter 18 - House of United Nations (#)
Meter 9 - House of England (#)	Meter 19 - House of Hungary (#)
Meter 10 - House of Czezh & Republics (#)	

Table 3. New meter numbering for each renovated cottage.

NEW TRANSFOMER FEED TO COTTAGES	LOAD AMPERAGE (A)	SUPPLY CAPACITY (A)
XMFR1 - 300kVA		
Meter 1	200	
Meter 2	200	
Meter 3	200	
Meter 4	200	
Meter 5	200	
TOTAL (A)	1000	1250

NEW TRANSFOMER FEED TO COTTAGES	LOAD AMPERAGE (A)	SUPPLY CAPACITY (A)
XMFR2 - 300kVA		
Meter 6	200	
Meter 7	200	
Meter 8	200	
Meter 9	200	
Meter 10	200	
TOTAL (A)	1000	1250

NEW TRANSFOMER FEED TO COTTAGES	LOAD AMPERAGE (A)	SUPPLY CAPACITY (A)
XMFR3 - 300kVA		
Meter 11	200	
Meter 12	200	
Meter 13	200	
Meter 14	200	
Meter 15	200	
TOTAL (A)	1000	1250

NEW TRANSFOMER FEED TO COTTAGES	LOAD AMPERAGE (A)	SUPPLY CAPACITY (A)
XMFR4 - 300kVA		
Meter 16	225	
Meter 17	225	
Meter 18	225	
Meter 19	225	
TOTAL (A)	900	1250

Tables 4-7. Source distribution layout for each renovated cottage meter based on the Base Plan and December Nights Additional Recommendation 2 Plan.

NEW TRANSFOMER FEED TO COTTAGES	LOAD AMPERAGE (A)	SUPPLY CAPACITY (A)
XMFR1- 225kVA		
Meter 1	160	
Meter 2	200	
Meter 3	160	
Meter 4	160	
Meter 5	200	
TOTAL (A)	880	938

NEW TRANSFOMER FEED TO COTTAGES	LOAD AMPERAGE (A)	SUPPLY CAPACITY (A)
XMFR2- 225kVA		
Meter 6	200	
Meter 7	160	
Meter 8	160	
Meter 9	160	
Meter 10	200	
TOTAL (A)	880	938

NEW TRANSFOMER FEED TO COTTAGES	LOAD AMPERAGE (A)	SUPPLY CAPACITY (A)
XMFR3- 225kVA		
Meter 11	200	
Meter 12	160	
Meter 13	160	
Meter 14	200	
Meter 15	160	
TOTAL (A)	880	938

NEW TRANSFOMER FEED TO COTTAGES	LOAD AMPERAGE (A)	SUPPLY CAPACITY (A)
XMFR4- 225kVA		
Meter 16	200	
Meter 17	200	
Meter 18	200	
Meter 19	200	
TOTAL (A)	800	938

Tables 8-11. Source distribution layouts to each renovated cottage meter based on December Nights Additional Recommendation 1 Plan.

APPENDIX

I

CULTURAL RESOURCES REPORT

CITY OF SAN DIEGO

CULTURAL RESOURCES SURVEY OF BALBOA PARK INTERNATIONAL COTTAGES ELECTRICAL IMPROVEMENTS PROJECT

CITY OF SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA

FEBRUARY 23, 2026

CONFIDENTIAL

CULTURAL RESOURCES SURVEY OF BALBOA PARK INTERNATIONAL COTTAGES ELECTRICAL IMPROVEMENTS PROJECT

CITY OF SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA

CITY OF SAN DIEGO

CONFIDENTIAL

PROJECT NO.: US0038189.8332
DATE: FEBRUARY 23, 2026

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WSP.COM

MANAGEMENT SUMMARY

At the request of the City of San Diego (City), WSP USA Earth & Environment Inc. (WSP), conducted a cultural resources assessment of the Balboa Park International Cottages, a contributing element to the Balboa Park National Historic Landmark District. The study was conducted in support of Task Order No. 25CW06 to evaluate the potential for adverse effects to historic properties that may result from a proposed evaluation of electrical infrastructure and conversion of current natural gas systems to electrical of the twenty existing cottages (Project). This study was conducted in compliance with the California Environmental Quality Act (CEQA) and the City of San Diego is the CEQA lead agency.

This assessment consisted of a California Historical Resources Information System (CHRIS) records search and literature review, a review of the San Diego County Built Environment Resources Directory (BERD), a pedestrian survey and site visit and the preparation of this document, which includes project-specific management recommendations. During this study, it was determined that, though a contributing element of the Balboa Park National Historic Landmark District, the Balboa Park International Cottages had never been independently evaluated for eligibility for inclusion on the National Register of Historic Places or the California Register of Historical Resources and had not been previously recorded on the appropriate California Department of Parks and Recreation (DPR) Series 523 forms. As a result of this evaluation, the Balboa Park International Cottages were recorded as a historical district and are recommended eligible for inclusion in both the National Register of Historic Places and the California Register of Historical Places under Criteria A and C and 1 and 3, respectively.

Though eligible for listing, it is unlikely that the study and evaluation of existing electrical and gas systems would cause a significant impact to the historical resources, but it is recommended that care be taken during the evaluation to minimize significant alterations to character-defining features of the property. Further, due to the moderate potential for archaeological resources during ground disturbing activities, it is recommended that any vegetation removal and ground disturbance be monitored by a qualified archaeological monitor, working under the supervision of a City of San Diego qualified archaeologist, and a qualified Native American monitor.

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1 INTRODUCTION

This technical memorandum documents the results of WSP USA's (WSP) cultural resources survey of the City of San Diego's (City) proposed Balboa Park International Cottages Electrical Improvements Project (Project), located within Balboa Park, in the City of San Diego, San Diego County, California. WSP conducted this study at the request of the City (Task Order No. 25CW06) to evaluate the potential for adverse effects to historic properties as a result of the Project. This study was conducted in accordance with the California Environmental Quality Act (CEQA), as amended.

1.1 PROJECT DESCRIPTION

The Balboa Park International Cottages Electrical Utility Service Upgrades Study (Project) would provide an electric utility assessment of the interior lighting to provide the necessary power upgrades for 19 international cottages at Balboa Park. These 20th-century cottages include China, Colombia, Czechoslovakia, Denmark, England, Finland, France, Germany, Hungary, Ireland, Israel, Italy, Norway, Poland, Scotland, Sweden, Ukraine, the United States, the United Nations, and the Hall of Nations. Please note that France and Colombia are combined in a single cottage building, bringing the total to 19 cottages.

The Project would evaluate the existing electrical and gas systems as well as the current energy demands. The Project would use the baseline conditions of the cottages to outline recommended improvements needed to upgrade the electrical system and convert the gas equipment to electric to meet current codes. The Project would also identify service upgrades to support temporary power for seasonal attractions, potential utility conflicts, and cost estimates for design and construction.

1.2 PROJECT AREA

The Project is located within Balboa Park in the City of San Diego. The project area is located in an unsectioned area of the Township 17 South, Range 3 West as depicted on the USGS *San Diego* 7.5-minute quadrangle. The project is accessible regionally by Interstate 5, State Route 163 and locally via Park Boulevard. Center point of the project area is Universal Transverse Mercator (UTM) Zone 11S 483740 mE, 3621247 mN.

2 REGULATORY FRAMEWORK

2.1 CALIFORNIA ENVIRONMENTAL QUALITY ACT

CEQA requires that a lead agency determine whether a project may have significant impacts on historical resources (Public Resources Code [PRC] §21084.1). If it is apparent that a proposed project will cause significant adverse impacts to a unique archaeological or historical resource, the lead agency may require that a resasonable effort is made to preserve the resource. The preference for preservation under CEQA is for a resource to be preserved in place or left in an undisturbed state. Because of this, CEQA requires detailed studies to evaluate the state of cultural resources within a project's area of potential effect (APE) and may require the development of alternative plans and additional mitigation measures.

California Public Resources Code §21083.2(g) defines a "unique archaeological resource" as an artifact, object, or site for which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets one of the following criteria:

1. Contains information needed to answer important scientific research questions and there is a demonstrable public interest in that information
2. Has a special and particular quality, such as being the oldest of its type or the best available example of its type
3. Is directly associated with a scientifically recognized, important prehistoric or historic event or person.

Adverse impacts to archaeological resources that do not meet the criteria of a unique resource are generally not considered to be significant environmental impacts (PRC §21083.2(a)), but non-unique archaeological resources may be considered tribal cultural resources, a classification established in 2014 by California State Assembly Bill 52 (AB-52). Tribal cultural resources require further consideration for significant impact.

2.2 CITY OF SAN DIEGO HISTORIC RESOURCE REGULATIONS

The City of San Diego, as a Certified Local Government (CLG), has developed its own Historic Resource Regulations (HRRs) to ensure the protection of historical resources in accordance with federal, state and local guidelines. As a CLG, the City is responsible for enforcing federal, state and local historic preservation laws, establishing an appropriate historic preservation review commission, maintaining an inventory of historic properties within its jurisdiction, and assuming all responsibilities delegated to it by the State Historic Preservation Officer (SHPO). The HRRs identify three significant historical resource designations made by the City that may be subject to additional protections and considerations of adverse impacts: 1) Designated Historical Resources or Historical Districts, 2) Traditional Cultural Properties, and 3) Important Archaeological Sites.

Division 1 of Chapter 11, Article 3 (§113.0103) of the City of San Diego Municipal Code Defines each of these specific resource designations as follows:

- A Designated Historical Resource is a historical building, historic district, historical landscape, historical object, historical structure, important archaeological site or traditional cultural property which has been designated by the Historical Resources Board pursuant to Land Development Code Chapter 12, Article 3, Division 2, is included in the City of San Diego Historical Resources Register, or has been listed in or determined to be eligible for listing in the California Register of Historic Resources or the National Register of Historic Places.
- A Traditional Cultural Property is a locale which has been, and may continue to be, of religious, mythological, economic, or social importance to an identifiable ethnic group. This includes sacred areas where religious ceremonies were or are practices or that are central to a group's origins as a

people (such as a mountain, river or cave). Also included are areas where plants or other materials were or are gathered for food, medicine, or economic purposes. Traditional Cultural Properties and the procedures for recording them are further detailed in *National Register Bulletin 38: Guidelines for Evaluating and Documenting Traditional Cultural Properties* (Parker and King 1992).

- An Important Archaeological Site is a site or location of past human occupation with significant subsurface deposits, where important prehistoric or historical activities or events occurred, that possesses unique historical, scientific, cultural, religious, or ethnic value of local, regional, state, or federal importance. Important archaeological sites include:
  - Archaeological sites listed in the City of San Diego Historical Resources Board Register or listed in or determined eligible for listing in the California Register of Historical Resources or in the National Register of Historic Places;
  - Areas of past human occupation where important prehistoric or historic activities or events occurred (such as villages or large camps); and
  - Locations of past or current traditional religious or ceremonial observances as defined by California Public Resources Code Section 5097.9, et seq., and protected under Public Law 95-341, the American Indian Religious Freedom Act (such as burials, pictographs, petroglyphs, solstice observation sites, and sacred shrines).

To protect Designated Historical Resources, including Traditional Cultural Properties and Important Archaeological Sites during the permitting and construction of capital improvement program or public projects, the City has developed Sections 143.0250-0253 of the Municipal Code to permissible degrees of alteration and encroachment upon Designated Historical Resources if appropriate mitigation measures are followed. The preference for preservation of these sites is through avoidance where feasible and requirements for the development of a research design and excavation program for the recovery of portions of important archaeological sites with significant value to science that may be lost due to encroachment.

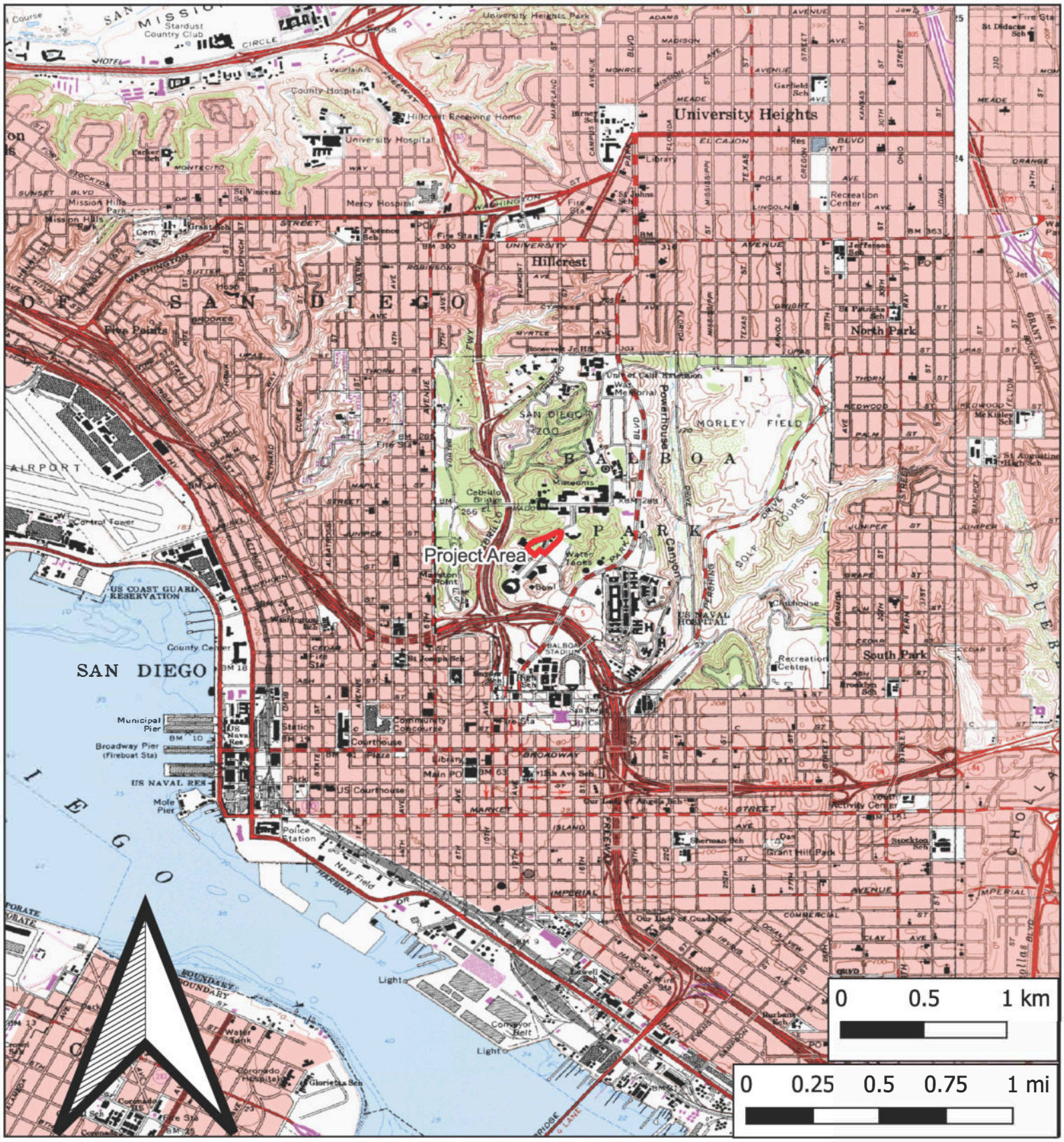

Figure 1
Balboa Park International Cottages Electrical Improvements Project
Project Vicinity
Township 17 South, Range 3 West
USGS San Diego 7.5-minute quadrangle
1:24000 Scale

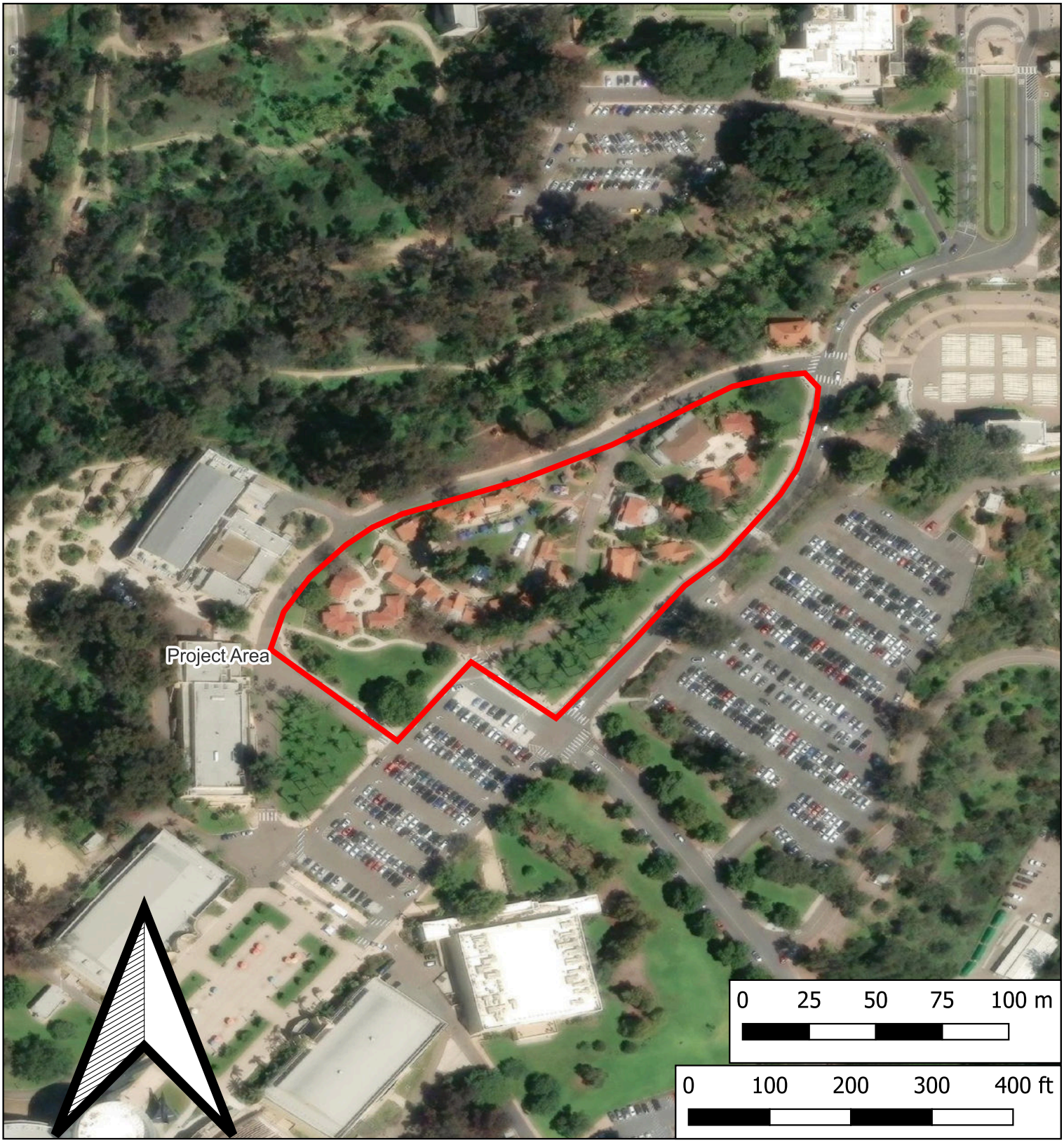

Figure 2
Balboa Park International Cottages Electrical Improvements Project
Project Area
Esri World Imagery
1:1500 Scale

3 SETTING

3.1 NATURAL SETTING

The project is located on the coastal plain of San Diego, northeast of the San Diego Bay, northwest of Chollas Creek and several miles south of the San Diego River. The San Diego River originates in the Cuyamaca Mountains, northwest of Julian, and Chollas Creek originates between the cities of Lemon Grove and La Mesa. Both the San Diego River and Chollas Creek have historically changed their courses, prior to development and concrete channelization and empty into the San Diego Bay. The San Diego Bay and Coastal Plain were created by tectonic activity and seismic uplift along the strike-slip margin of the Rose Canyon Fault that brought former sea floor to surface (Graves et al. 2021). Exposure of these formerly inundated sediments and fluvial action along the surface caused considerable erosion, which created a number of small canyons throughout the basin. The five localities of the present project are located within slopes of several canyon areas, ranging in elevation from 140 to 225 feet above mean sea level (amsl).

The climate of the San Diego area is described as Mediterranean, with warm, dry summers and cool, wet winters. The pre-development landscape of the San Diego Coastal Plain was populated by coastal sage scrub and chamise chaparral plant communities, with an abundance of fauna that would have included coyote (*Canis latrans),* deer, rabbits and various snakes, lizards and waterfowl.

3.2 ARCHAEOLOGICAL CONTEXT

The intensive archaeological study of San Diego County and the general vicinity over more than a century have shown that the region followed a history and cultural chronology much different than others throughout Southern California and the wider Western United States. The earliest systematic studies of the region were conducted by Malcolm Jennings Rogers, a professional geologist who identified many of the most significant early sites in San Diego County and served as the director of the San Diego Museum of Man (now the Museum of Us) at various times from 1929 until his untimely passing in 1960 (Hanna 2012). Through extensive field and laboratory research, Rogers typed the artifacts he defined into two distinct patterns or complexes: the earlier San Dieguito Complex or “scraper makers” and the later La Jolla Complex or “shell midden people” (Rogers 1929). Rogers further defined four distinct periods that tell the story of technological change through the 10,500 year pre-contact history of the region: the Early Man Period (before 10,500 BP), the Paleo-Indian Period (10,500 – 8,000 BP), the Early Archaic Period (8,000 – 2,000 BP), and the Late Prehistoric Period (2,000 BP – 1769 AD). Rogers’ sequence was further built upon by Warren (1967, 1968). Though others, including Moratto (1984), Cardenas (1987), and True (1970), sought to further refine and build upon the work of Rogers and Warren, others including Bull (1983, 1987) and Gallegos (1987, 2017) have criticized and sought to dismantle and reclassify this approach. However, the work of Rogers and Warren is the most widely accepted chronology for the region and the following chronology is adapted from their work and is supplemented by more recent work in the region.

3.2.1 EARLY MAN (BEFORE 10,500 BP)

To date, there have been no concrete or widely accepted archaeological findings to indicate that the San Diego area was occupied earlier than 10,500 years before present (BP). In recent years, much media attention has been given to sensationalist sites such as the Cerutti Mastodon site, which its study authors claim provide evidence

that humans occupied the San Diego area as early as 130,000 BP (Holen et al. 2017), but such claims have been argued against and disputed by others who question the validity of their findings (Haynes 2017). Though sites such as Meadowcroft Rockshelter in Pennsylvania, the White Sand Footprints in New Mexico and Monte Verde in Chile indicate that the peopling of the Americas began as far back as 25,000 years ago, no such findings have been met with wide acceptance in the San Diego area. Sites such as the Windsong Shores (CA-SDI-10965) and the C.W. Harris Site (CA-SDI-149) are regarded as the oldest sites in the region. Confirmation of sites predating these in the San Diego region would be of the utmost importance to the archaeological community and would have broad implications for the accepted chronology of human occupation within the San Diego region and the peopling of North America as a whole.

3.2.2 PALEO-INDIAN PERIOD (10,500 – 8,000 BP)

The earliest accepted period of occupation in the San Diego Region is the Paleo-Indian Period, which began approximately 10,500 years before present. In San Diego, the Paleo-Indian Period is defined by the culture group defined by Malcolm Rogers as "the San Dieguito Complex" (Rogers 1929). The San Dieguito Complex is generally identified by the presence of large projectile points and crescentics, a variety of scrapers, bifaces and other flaked lithic tools. The San Dieguito Complex is also characteristically devoid of groundstone tools and materials. The San Dieguito Complex is contemporaneous with the Western Pluvial Lakes Tradition, generally associated with the Mojave Desert and surrounding regions. The lack of groundstone and prevalence of large projectile points during this period has largely been associated with extensive hunting of large game and a minimal dependence on plant-based subsistence. A recent reevaluation of the chronology of the Mojave Desert by Sutton (2023) suggests that, because of the tendency for indigenous populations of the period to congregate near reliable sources of fresh water, a reliance on plant-based subsistence may have been greater than previously assumed, albeit a much narrower variety of plant sources from marsh and coastal vegetation communities. These plants would have consisted of softer foliage and possibly tubers which would require less abrasive processing than the seeds and acorns that dominated subsistence patterns during later periods.

Assessment of sites associated with the San Dieguito Complex are of high priority to the understanding of the archaeology of San Diego and surrounding regions. Principal research themes associated with this period include the confirmation of the presence of Western Fluted Points (e.g. Clovis and Folsom type points) in San Diego County; transitional relationships between San Dieguito and later cultural complexes and traditions, such as those of Warren's Encinitas Tradition (1968); greater evidence of the variation in subsistence patterns during the San Dieguito Complex; and a greater understanding of the interrelationships between San Dieguito peoples and those of surrounding regions and traditions.

3.2.3 EARLY ARCHAIC PERIOD (8,000 – 2,000 BP)

Rogers' Early Archaic Period is contemporaneous with Warren's Encinitas Tradition (1968), which was also referred to by Wallace (1955) as the "Millingstone Horizon". Wallace's concept of "Horizons" is culturally limiting, as it attempts to define limited assemblages of diagnostic artifacts as markers of absolute technological change and rapid widespread diffusion over broad areas over finite periods of time in a techno-environmental framework that associates specific typologies to a specific time without consideration of continued practice (Warren 1984). Warren's framework of "Traditions", on the other hand, supports notions of both cultural continuity and diversity of cultural practices across smaller subregions of coastal Southern California in response to individualized microclimactic and social pressures. Though Warren's (1968) dates . Warren's wider Encinitas Tradition is divided into two distinct complexes: the La Jolla Complex, centered around a coastal

subsistence pattern of shellfish and plant gathering along the shorelines of the region's numerous lagoons, and the Pauma Complex, an inland centered pattern focused on the gathering and processing of plant materials, such as seeds and acorns, in the arid cismontane interior of the region, based on definitions developed by Rogers (1929) and True (1958, 1980) respectively.

The coastal setting of the Project Area is associated with the peoples and assemblages of the La Jolla Complex, which Sutton and Gardner (2010) divide further into three distinct phases: La Jolla I, La Jolla II, and La Jolla III. La Jolla I (8,500 BP to 5,000 BP) is associated with the first identified use of groundstone implements in the region, specifically manos and metates. Pinto-like points, traditionally associated with culture groups of the period in the Western Mojave Desert, also appear at this time. Shellfish was the most significant protein source during La Jolla I and prolonged dependence on shellfish during this period produced numerous shell scatters in and around coastal San Diego that have been dated to the period. Toward the latter end of La Jolla I and through La Jolla II (5,000 BP to 4,000 BP), a period of drying led to greater sedimentation of the lagoons in the San Diego area, severely impacting suitable habitat for shellfish and leading to a greater dependence on terrestrial mammals (Gallegos 1995, 2017; Masters 1988). Though manos and metates are still prevalent, La Jolla II marks the introduction of the mortar and pestle to the coastal region, indicating a likely shift to an increased reliance on acorns and other hard plant food sources that required additional processing (Sutton and Gardner 2010). The La Jolla III Phase (4,000 BP to 1,300 BP) signals a transition from higher elevation habitation sites to lower elevations and, though flexed inhumations in larger dedicated cemeteries are most common, cremations begin to appear during this later period as the Early Archaic transitions into the Late Prehistoric.

3.2.4 LATE PREHISTORIC PERIOD (2,000 BP – HISTORIC CONTACT)

The Late Prehistoric Period is one of great cultural transition, as it is one marked by significant influence from the intrusion of Yuman cultures from the Colorado Desert region and Shoshonean peoples from the north (Rosen 1994; Van Wormer 1995). This period is faced drastic changes in precipitation and temperatures, first by the warming of the Medieval Climactic Anomaly and then by the cooling of the Little Ice Age (Spaulding 2001; Gallegos 2017). This led to periods of prolonged drought followed by significantly wetter conditions, which led to the rapid flushing of the lagoons and the flooding and filling of Lake Cahuilla to the east, in the Lower Colorado Desert. The filling of Lake Cahuilla and the proliferation of waterfowl and other freshwater food sources led to greater interaction between Pauma Complex peoples of inland San Diego County and Yuman groups to the east, which eventually led to replacement of the former by the latter as Lake Cahuilla desiccated (Sutton 2010). Occupation by these groups is represented archaeologically by the Cuyamaca Complex of the mountainous regions of southern San Diego County, with the San Luis Rey Complex occupying the cismontane region of the north (Rosen 1994; Van Wormer 1995). With the arrival of these groups and development of these complexes, significant changes, including greater reliance on the mortar and pestle, the introduction of the bow and arrow and greater prevalence of cremations, are seen. The archaeological assemblage of this period becomes more diverse than in earlier period, with larger volumes of obsidian from Obsidian Butte on the southern shore of the Salton Sea beginning to appear throughout the San Diego area and an increase in ceramic vessels (Meighan 1954; True 1970).

3.3 ETHNOGRAPHIC CONTEXT

The project area falls within the territory of the Kumeyaay people. The Kumeyaay reside within the regions of coastal and inland San Diego County and Northern Baja California, ranging from Mesa Grande in the north to approximately Ensenada to the south and from the Pacific Coast to the eastern foothills of the Cuyamaca Mountains (Kroeber 1925). The term Diegueño was a term previously used to classify the Native populations who were baptized into the Mission San Diego de Alcala, which early ethnographers such as Kroeber later used

to define the language of the peoples of the region. The Kumeyaay peoples are a collective group of three related groups: the 'Iipai, the Tiipai and the Kamia. The languages of these groups are derived from the Yuman-Cochimí language family and are mutually intelligible with minor dialectical differences. The project is located within the general territory of the 'Iipai speaking group (Luomala 1978).

The political organization of the Kumeyaay was not singular, but rather a number of autonomous but related tribelets situated across the entirety of the territory. The individual tribelets had a clan chief and an assistant chief, of which the positions were passed down patrilineally, from father to eldest son (Luomala 1978). The communal claims by bands to land and property was recognized and defined by landmarks, but exceptions to resource ownership were made for food and water. Communal food stores were shared with those in need who intended to reciprocate and return the favor and water was fundamentally made available to all. Subsistence was largely based in vegetal food sources, though deer, rabbit, lizards and fish were also utilized. Caches of plant food sources were kept. Cactus fruits were dried and stored in caves during the early summer months and acorns were gathered and stored in the late fall. Artifacts associated with Kumeyaay are consistent with this subsistence pattern, mostly consisting of groundstone implements. The Kumeyaay were bordered on the north by Payomkawichum, Cupeño and Cahuilla groups, with little known into the ethnographic period of which group claimed territory over the Imperial Valley to the east.

Kumeyaay settlements were mostly composed of seasonal camps, as the Kumeyaay followed a common California Native settlement pattern of dwelling within the lower lying valleys during the cooler winter season and moving to the higher mountain elevations during the warmer summer months for comfort, security and access to seasonal resources (Luomala 1978). Kumeyaay dwellings were primarily dome shaped and thatch covered with sunken floors. Dwellings were owned by individuals, while ceremonial structures were owned by the entire village. The dwellings of the deceased were burned, rather than reinhabited, as strong beliefs were held regarding the remnants of an individual's spirit within their belonging. Clothing and other belongings were also burned, so as to make the afterlife more welcoming to the spirit of the deceased (San Diego Union-Tribune 2013).

Cremation was the common funerary ritual among the Kumeyaay and the ritual practice was similar to that of the neighboring Payomkawichum. The rite involved the excavation of a north-south oriented trench with sticks, within which a pyre was built and the decedent was placed extended and face up, with their head oriented north. One man was tasked with tending to the body and the fire until the cremation was complete (Davis 1921). The handlers of the corpse and their relatives observed taboos and participated in appropriate purification rituals following the ceremony (Luomala 1978).

3.4 HISTORICAL CONTEXT

While Spanish, Russian and British explorers did visit California for brief periods from 1529 to 1769, the general Post-Contact history of the State of California does not begin until the establishment of the settlement at San Diego and the founding of the Mission San Diego de Alcala in 1769. As such, the historic context of the state is generally divided into three continuous periods: the Spanish period (1769-1822), the Mexican Period (1822-1848) and the American Period (1848-Present).

3.4.1 SPANISH PERIOD (1769 – 1821)

Early Spanish missionaries and colonists residing in Mexico believed California to be an island. Because of this, the peninsula now known as Baja California was named for the Amazon Queen Califa of Garci Ordoñez de Montalvo's 1510 novel Las Sergas de Esplandian, who ruled a beautiful and mystical island (Hoover et al.

2002). It was not until 1542 that Juan Rodriguez Cabrillo and his expedition first made landfall in Alta California, when they arrived on the shore of present-day Santa Catalina Island. Cabrillo and his men then explored the San Pedro and Santa Monica Bays before departing. Spanish colonization of Alta California did not occur until the overland expedition of Captain Gaspar de Portola. With a band of soldiers and missionaries, Portola established the first Spanish settlement in Alta California, the Presidio of San Diego. Under decree of the Spanish King Charles III to establish a campaign of the Franciscan Order in the Americas, Father Junipero Serra founded the Mission San Diego de Alcala, the first of the Spanish missions in California, in July 1769 (Bancroft 1885; Gumprecht 1999). Upon founding of the Mission, the missionaries embarked on a campaign of conversion of the local Native populations.

3.4.2 MEXICAN PERIOD (1822 – 1848)

Following years of unrest and violence, Mexico gained its independence from Spanish rule in 1821 and California was secured as a Mexican territory in 1822, before becoming a federal republic in 1824. During Spanish rule, great emphasis was placed on the campaign of conversion and the spread of Christianity, through the Mission system, in which it was expected that Natives would be incorporated into Spanish Christian society. Following Mexican independence, all former Mission lands were confiscated and the secularization of the system began in 1834, under Governor Juan B. Alvarado. In 1836, Alvarado began subdivide the lands formerly controlled by the missions into large land grants called ranchos. The present project area is within lands reserved for the Pueblo of San Diego. By 1841, the population of San Diego has reduced from 500 to 150 people, due largely to relocation of residents who were granted ranchos (Crane 1991).

3.4.3 AMERICAN PERIOD (1848 – PRESENT)

War broke out between Mexico and the United States over tensions over territory in Texas and, to a lesser degree, California in 1846. After two years of fighting, peace was made with the Treaty of Guadalupe Hidalgo on February 2, 1848. Nine days after the treaty was signed, gold was “discovered” at Sutter’s Mill, near Sacramento. News of the abundance of the precious metal spread quickly to the east coast and the new territory was quickly inundated with settlers and homesteaders from across the country, seeking fortune and a new life in the new west.

Balboa Park, established in 1868 and developed as a municipal park in the early 20th century, became the site of major international expositions that shaped San Diego’s cultural identity. The 1915–1916 Panama–California Exposition celebrated the opening of the Panama Canal and positioned San Diego as the first American port of call on the Pacific Coast. Two decades later, the California Pacific International Exposition (1935–1936) sought to revitalize the park, promote tourism during the Great Depression, and reinforce San Diego’s image as a cosmopolitan city engaged with the wider world.

The exposition movement in the United States, part of a broader global trend of world’s fairs, used temporary architecture, themed villages, and national pavilions to educate, entertain, and inspire civic pride. San Diego’s expositions followed this model, incorporating both grand, permanent buildings and smaller, thematic structures designed to showcase cultures, arts, and technological advances.

Within the 1935–1936 exposition, the House of Pacific Relations was created to celebrate international friendship and cultural diversity. The Balboa International Cottages, constructed as part of this program, served as gathering spaces where visitors could experience food, music, dance, and crafts from around the world.

After the exposition, the cottages were retained and repurposed as permanent spaces for San Diego's ethnic and cultural organizations. They became focal points for community engagement, cultural preservation, and education, allowing successive generations to maintain and share their traditions. In this way, the cottages not only reflect the exposition-era emphasis on global awareness but also document the long-term social history of immigrant communities in San Diego.

4 RECORDS SEARCH

On April 6, 2025, WSP archaeologist Matthew Behrend submitted a records search request to the South Coastal Information Center (SCIC) of the California Historical Resources Information System (CHRIS), located at San Diego State University for the project area, and an additional 1/2-mile buffer to assess previously recorded cultural resources in the vicinity and previous cultural resources studies. On June 3, 2025, Jaime Lennox of the SCIC returned results of the records search request.

Seventy-five previous cultural resource studies were identified within the 1/2-mile search radius, though only seven previous studies involved the project area.

Table 4.1 Previous Cultural Resources Studies within 1/2-Mile of Project Area

REPORT NO.	YEAR	AUTHOR	TITLE	WITHIN PROJECT area
SD-01854	n.d.	Hector, Susan	Starlight Bowl	No
SD-02628	1990	Carrico, Richard, Anne Cooper, Joyce Clevenger, and Dennis Gallegos	Historic Properties Inventory Report for the Mission Valley Water Reclamation Project, San Diego California	No
SD-04049	1996	Lortie, Frank, and Dorene Clement	Historic Resource Evaluation Report; Seismic Retrofit Project for Eleven Overcrossings on the Cabrillo Freeway, State Route 163, San Diego	No
SD-04604	1993	City of San Diego	Public Notice of Draft Environmental Impact Report House of Charm Reconstruction	Yes
SD-04921	1998	City of San Diego	DEIR Natural History Museum Expansion	No
SD-06158	1983	Roth, Linda	Historic Properties Survey Report-Defense Access Road Project Naval Regional Medical Center Balboa Park San Diego, California US Navy, Western Division Naval Facilities Engineering Command	No
SD-06209	2001	City of San Diego	Mitigated Negative Declaration for Park Laurel	No
SD-06392	1995	City of San Diego	Negative Declaration and Notice to Public of Request for Release of Community Development Block Grant Funds (CDBG)	Yes
SD-06509	1996	Rosen, Martin	Short Form HPSR-Retrofit Plaza De Balboa Pedestrian Crossing	No
SD-07204	1999	City of San Diego	Public Notice of Proposed Draft Revised Negative Declaration Plaza of the Founders-Sixth Avenue Mesa, Balboa Park	No
SD-07224	2001	City of San Diego	Public Notice of a Proposed Mitigated Negative Declaration Sewer and Water Group and Water Group Job 681	No
SD-07508	2002	Duke, Curt	Cultural Resource Assessment Cingular Wireless Facility No.SD 800-01 San Diego County, CA	No
SD-07704	2002	Smith, Brian F.	An Archaeological Report for the Mitigation, Monitoring, and Reporting Program at the Laurel Bay Apartment Project	No

REPORT NO.	YEAR	AUTHOR	TITLE	WITHIN PROJECT area
SD-07921	2002	Jordan, Stacey C.	Draft Historical Architectural Evaluation for the Proposed Demolition of the Fire Medical Building, 3060 5th Avenue, San Diego, CA	No
SD-07998	2002	May, Ronald v.	Historical Nomination of the South Park Commercial Transit Historical District	No
SD-08363	2001	City of San Diego City Development Services	Public Notice of a Proposed Mitigated Negative Declaration for Water and Sewer Group Job 536	No
SD-08366	2001	City of San Diego / Development Services Department	Public Notice of a Proposed Negative Declaration – West Arcade	Yes
SD-08369	2001	City of San Diego City Development Services	Public Notice of a Proposed Mitigated Negative Declaration Sewer and Water Group 680	No
SD-08450	1981	Brandes, Ray	Historic Resources Inventory for Uptown Area, San Diego, California	No
SD-08451	1981	Brandes, Ray	Historic Resources Inventory for Middletown Area, San Diego, California Completed by the University of San Diego, January 1981	No
SD-08950	2003	Schaefer, Jerry and Sinead Ni Ghabhlain	A Historical Resources Inventory and Evaluation for the Proposed San Diego Zoo-Park Boulevard Promenade Project, Balboa Park, City of San Diego, Project No. 2197	No
SD-09007	2004	Rosen, Martin D.	Historical Resources Compliance Report for the of a Corridor Management Plan (CMP) On State Route 163 Through Balboa Park, City of San Diego, California	Yes
SD-09113	2004	Case, Robert	Cultural Resources Mitigation Monitoring Report for the Park Laurel Condominium Project, Uptown Community Planning Area, City of San Diego	No
SD-09324	1989	Burke Lia, Marie, Ray Brandes, and Susan Carrico	Historic Site Inventory of El Cortez	No
SD-09676	2005	Pierson, Larry J.	A Historical Evaluation for the Prado Walk Project	No
SD-09680	2005	Clowery, Sara and Brian F. Smith	An Archaeological Report for the Mitigation, Monitoring, and Reporting Program at the Aloft on Cortez Hill Project	No
SD-09962	2006	Rosen, Martin	Historic Property Survey Report and Finding of No Adverse Effect with Standard Conditions for the Implementation of Two Transportation Enhancement Landscaping Projects within the Cabrillo Freeway Historic District on State Route 163 in Balboa	No
SD-09987	2005	Case, Robert and Carol Serr	Cultural Resources Mitigation Monitoring Report for the Sewer Group 680 Project (LDR No. 41-0386), Bankers Hill City of San Diego, California	No

REPORT NO.	YEAR	AUTHOR	TITLE	WITHIN PROJECT area
SD-10140	2005	Case, Robert and Carol Serr	Cultural Resources Mitigation Monitoring Report for the Sewer group 6814 Project (LDR No. 40-0187), Uptown community City of San Diego, California	
SD-10444	2006	May, Vonn Marie	Uptown Historic Architectural and Cultural Landscape Reconnaissance Survey	No
SD-10526	n.d.	Various	Ford Building	No
SD-10527	1995	Donalds, Milford Wayne	San Diego Aerospace Museum Expansion of Educational Facilities	No
SD-10528	n.d.	Various	Misc. File Folder for Balboa Park; Buildings and HSB Documents	Yes
SD-10551	2006	Arrington, Cindy	Cultural Resources Final Report of Monitoring and Findings for the QWEST Network Construction Project, State of California	No
SD-10779	2004	Crawford, Kathleen	Historical Assessment of the "Le Moderne" Apartment Complex 525-531 Nutmeg Street / 2650-2680 Sixth Avenue San Diego, California	No
SD-10841	1996	Lortie, Frank	Report for the Cabrillo Freeway/ State Route 163	No
SD-11039	n.d.	Various	Palomar Apartments, 536 Maple Street, San Diego, California 92103	No
SD-11123	2007	Kyle, Carolyn E.	Cultural Resource Study for the City College Master Plan San Diego, California	No
SD- 11200	2007	Rosen, Martin D.	Historic Property Survey Report for the Quince Street Bridge Overcrossing	No
SD-11508	2006	Crawford, Kathleen A. and Marie Burke Lia	John Ginty House – National Register of Historic Places Registration Form	No
SD-12200	2009	City of San Diego Development Services Department	Draft Environnemental Impact Report for the Master Storm Water System Maintenance Program (MSWSMP)	No
SD-12821	2010	Rosen, Martin D.	Completion of Section 106 and Filing of Historic Property Survey Report (HPSR) for the Cabrillo Bridge Seismic Retrofit and Rehabilitation Project over State Route 163	No
SD-12988	2011	Van Wormer, Stephen R.	Historical Resources Compliance Report FPR the City of San Diego's Cabrillo Trunk Sewer Emergency Repair San Diego Couty, California	No
SD-13223	2011	Ruppert, Rory	Section 106 Consultation for Energy Upgrades, Worldbeat Center, Balboa Park, San Diego, CA	No
SD-13284	2012	City of San Diego	Balboa Park Plaza De Panama	Yes
SD-13321	2011	Tsunoda, Koji	Historic Property Survey Report for the Cabrillo Freeway Historic District Rehabilitation Transportation Enhancement Project Phase II San Diego County, California	No
SD-13350	2011	Stropes, Tracy A. and Brian F. Smith	Mitigation Monitoring Report for the Sewer Group 682M Project	No

REPORT NO.	YEAR	AUTHOR	TITLE	WITHIN PROJECT area
SD-13357	2011	Perez, Don C.	Naval Hospital (Balboa Activity Center)/ENSITE #10431 2145 Park Boulevard San Diego San Diego County, California 92101	No
SD-13436	2012	Stropes, Tracy A. and Brian F. Smith	Mitigation Monitoring Report for the Sewer Group 682 Project	No
SD-13799	2011	City of San Diego	Addendum to Mitigated Negative Declaration No. 255100, Sewer and Water Group 957	No
SD-13992	2011	City of San Diego	Water Group Job 945	No
SD-14062	2011	Wolf, Scott	Monitoring for Cultural Resources Using the Archaeological Resources Report Form (Attachment D) for the San Diego Zoo Equalization Tank (Panda Canyon) Monitoring Project, San Diego, California	No
SD-14261	2012	Bowden-Renna, Cheryl	Letter Report: ETS 22182 Cultural Resources Monitoring for Conduit Trench Excavation, San Diego Gas and Electric Sustainable Communities Project, San Diego Zoo, City of San Diego, California	No
SD-14483	2013	Van Wormer, Stephen R.	Historical Resources Compliance Report for the City of San Diego's Buchanan Canyon Sewer Replacement – B Accelerated San Diego County, California	No
SD-14549	2013	Wilson, Stacie	Letter Report: ETS 24895- Cultural Resources Monitoring Report for Laurel Street Bridge Gas Line Removal, Uptown Area of the City of San Diego, San Diego County, California-IO 7011102	No
SD-14743	2014	Tsunoda, Koji	Historical Resources Compliance Report for the Washington Street Bridge Access Control Project San Diego County, California	No
SD-14786	2013	Loftus, Shannon	Cultural Resource Records Search and Site Survey AT&T Site ATTBAL10M3 San Diego das Southwest of Zoo Place and Park Boulevard (2860 1/3 Park Boulevard) San Diego, San Diego County, California 92101	No
SD-15098	2014	Chmiel, Karolina A.	Letter Report: ETS 26861- Cultural Resources Monitoring for Anodes Installation Activities at Balboa Park, San Diego, San Diego County, California—IO7011101	No
SD-15116	2014	Bonner, Wayne H. and Kathleen A. Crawford	Direct APE Historic Architectural Assessment for T-Mobile West, LLC Candidate SD06800A (SD800 5th Avenue Financial) 2550 5th Avenue, San Diego County, California	No
SD-15151	2015	Brunzell, David	Cultural Resources Assessment of the Crown Castle/Verizon Fiber PUC	No

REPORT NO.	YEAR	AUTHOR	TITLE	WITHIN PROJECT area
			Project, San Diego, California (BCR Consulting Project No. SYN1404)	
SD-15513	2015	Smith, Brian F. and David K. Grabski	Cultural Resource Monitoring Report for the Water Group 945 Project, San Diego, California	No
SD-15609	2014	Bonner, Wayne H., Kathleen A. Crawford, and Sarah A. Williams	Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate SD06002A (SD002 San Diego Zoo) 2920 Zoo Drive, San Diego, San Diego County, California	No
SD-15610	2014	Bonner, Wayne H. and Kathleen A. Crawford	Direct APE Historic Architectural Assessment for T-Mobile West LLC Candidate SD06002A (SD002 San Diego Zoo) 2920 Zoo Drive, San Diego County, California	No
SD-15635	2014	Bonner, Wayne H., Kathleen A. Crawford, and Sarah A. Williams	Cultural Resources Records Search and Site Visit Results for T-Mobile West, LLC Candidate Sd06800A (SD800 5th Avenue Financial) 2550 5th Avenue, San Diego, San Diego County, California	No
SD-16180	2015	Smith, Brian F. and Elena C. Goralogia	Cultural Resource Monitoring Report for the Park Boulevard Median Improvements Project San Diego, California	No
SD-16245	2015	Roy, Julie	Letter Report: ETS 26086 – Cultural Resources Monitoring Report for California Tower Seismic Upgrade, Balboa Park- Museum of Man, City of San Diego, California – 1O 7011107	No
SD-16427	1987	Mikesell, Stephen D.	Archie Moore Home, 3517 E Street, San Diego, Ca 92102	No
SD-16506	2016	Herrmann, Myra	House of Pacific Relations - New International Cottages	Yes
SD-16802	2016	City of San Diego Planning Department	Uptown Community Plan Area Draft Historic Resources Survey Report	No
SD-16833	2016	Smith, Brian F.	Historical Resource Research Report For 2001 Fourth Avenue San Diego, California Project No. 523694	No
SD-17233	2017	Brunzell, David	San Diego 129 Project, San Diego County, California (BCR Consulting Project No. Syn1622)	No
SD-17236	2017	Brunzell, David	VZW 32nd And Commercial PUC Project, San Diego, California (BCR Consulting Project No. Syn1616b)	No
SD-17997	2017	Kistler, Annamarie and Jaime Destefano	Proposed Small Cell Telecommunication Facility, Three Nodes Located Within 250 Feet of a Historic District, Mobility California Small Cell Project, San Diego, San Diego County, California, ECA Project #: T1774	No
SD-18116	2019	Wolfe, Tim	Letter Report: ETS 38027 - Cultural Resources Monitoring Report for Plaza De Panama Pipeline Replacement, Balboa Park, City of San Diego, California - IO 7074262	No

REPORT NO.	YEAR	AUTHOR	TITLE	WITHIN PROJECT area
SD-19514	2020	Heritage Architecture & Planning	Balboa Park Carousel, 1889 Zoo Place, San Diego, CA 92101	No

SD-4604: In December 1992, the City of San Diego published an Environmental Impact Report (EIR), addressing the potential for impacts as they pertained to the proposed to demolition and reconstruction the historic House of Charm Building, also located in Balboa Park. The House of Charm is located to the north of the House of Pacific Relations and Hall of Nations. The EIR determined that the demolition and reconstruction posed a potentially significant impact the structure, which is a contributing element to the Balboa Park National Historic Landmark District. The reconstruction was to include a detailed demolition and salvage plan and Historic American Building Survey (HABS) level documentation of the original structure, following the *Secretary of the Interior's Standards for the Treatment of Historic Properties* for reconstruction.

SD-6392: In 1995, the City of San Diego prepared a Finding of No Significant Impact/Negative Declaration in compliance with CEQA and an Environmental Impact Statement (EIS) in compliance with the National Environmental Policy Act (NEPA) in advance of Americans with Disabilities Act (ADA) improvements to the Balboa Park Organ Pavillion, immediately east of the House of Pacific Relations and Hall of Nations. The improvements were constructed with federal Community Block Development Grant funds from the Department of Housing and Urban Development (HUD). Though the Balboa Park Organ Pavilion is a National Historic Landmark and a contributing element of the Balboa Park National Historic Landmark District, a finding of No Adverse Effect to Historic Properties was recommended with concurrence from the California State Historic Preservation Officer (SHPO), as the improvements would adhere to the *Secretary of the Interior's Standards for the Treatment of Historic Properties* for rehabilitation.

SD-8366: In 2001, the City of San Diego Land Development Review Division proposed a Negative Declaration for the construction of an arched passageway between the Museum of Man and Plaza de Panama, north of the International Cottages. An associated Initial Study (IS) determined that the project would not have a significant effect on the environment and that the project location had a low potential for impact to intact archaeological resources.

SD-9007: In 2004, Caltrans prepared a Historical Resources Compliance Report for the implementation of a corridor management plan on State Route 163 through Balboa Park. The SCIC could not provide a digital copy of the report at the time of the records search, but based on the alignment of SR 163, it is presumed that the implementation of the corridor management plan had no direct adverse effect on the International Cottages and that any impacts were indirect in nature.

SD-10528: In July 1995, Estrada Land Planning prepared a Proposed Scope of Restoration for the Alcazar Garden, north of the International Cottages. The proposed restoration plan would restore the Garden to its 1935 state. Recommendations proposed for the restoration included the reconstruction of a neoclassicla pergola, replacement of concrete pavement with aggregate, repairs to walls and arches, and the restoration of concrete urns and tiled fountains, and the preservation of historic plantings.

SD-13284: In January 2012, the City of San Diego Development Services Department published a Public Notice of a Draft Environmental Impact Report (I.O. No.: 21002440) inviting public comment for amendments to the Balboa Park Master Plan and Central Mesa Precise Plan, and a site development permit for the Balboa Park Plaza de Panama Project. The purpose of the Project was to restore and rehabilitate the Plaza to its original planned use as a ceremonial plaza and gathering space by eliminating vehicle traffic through the elimination of roads and parking areas within the plaza and the development of a new parking garage near the Balboa Park Organ Pavillion. The recommended finding of the study concluded that the project would have a significant environmental impact due to effects on both built environment and archaeological resources.

SD-16506: In 2016, the City of San Diego Planning Department prepared a Mitigated Negative Declaration (MND) for an update to the City's General Development Plan (GDP) and the Balboa Park Master Plan (BPMP) to allow for the expansion of the International Cottages to allow for the construction of nine new cottages, consisting of four duplex building and one single cottage structure, representing the nations of Mexico, India, Lebanon, Turkey, Palestine, Peru, Panama, Columbia and the Philippines. The new cottages were designed for compatibility of size and scale with the existing 11 cottages and plans were reviewed by City Historical

Resources Staff for consistency with the *Secretary of the Interior's Standards for the Treatment of Historic Properties* for rehabilitation. An IS prepared by the City determined that the new development would have a significant effect on the environment due to its impact on historical resources. The Mitigation Monitoring and Reporting Program (MMRP) included in the MND required that a Qualified Archaeologist, Native American Monitor and Historic Preservation Architect or Architectural Historian be retained prior to permit issuance and that these technical resource specialists be in attendance of all pre-construction meetings. The MMRP also required verification that a site-specific records search be conducted at the SCIC prior to construction, that an Archaeological Monitoring Exhibit (AME) be prepared, an Acknowledgement of Responsibility for Curation be submitted by the Applicant and that all ground disturbance be monitored full-time by a qualified archaeologist and a Native American monitor.

The records search also identified 55 cultural resources within the search radius, one of which is within the project area. Additionally, 86 historic properties are located within ½ mile of the property. The addresses of these properties are attached in Attachment C.

Table 4.2 Previously Recorded Resources within 1/2-Mile of Project Area

PRIMARY SITE NO.	YEAR	RECORDED BY / AFFILIATION	RESOURCE NAME / type	WITHIN PROJECT AREA?
P-37-016279	1996; 2013	1996: Lortie, Frank / Caltrans 2013: Bietz, S.	Cabrillo Freeway; 11-SD-63, P.M.0.9-P.M.3.95, State Route 163/ District - Historic	No
P-37-018280	1999	Historic Site Board	Palomar Apartments	No
P-37-018425	2000	Crawford, Kathleen/ Office of Marie Burke Lia	Balboa Park Railway / Structure- Historic	No
P-37-018426	2000; 2020	Crawford, Kathleen / Office of Marie Burke Lia	Balboa Park Carousel / Structure, Object - Historic	No
P-37-018776	2000	Burke Lia, Marie	2400-2424 5th Ave	No
P-37-018777	2000	Burke Lia, Marie	2442 5th Ave	No
P-37-018778	2000	Burke Lia, Marie	2456 5th Ave	No
P-37-018779	2000	Burke Lia, Marie	2464 5th Ave	No
P-37-019072 / CA-SDi-015826	2000	Brian F. Smith & Associates	Group 615 Temp 1	No
P-37-019073 / CA-SDi-015827	2000	Brian F. Smith & Associates	Group 615 Temp 3	Yes
P-37-019074	2000	Brian F. Smith & Associates	Group 615 Temp 2	No
P-37-019201	2001	Affinis	2665 5th Avenue	No
P-37-020900	n.d.	Unknown	Fine Arts Building / Building, District, Element of District - Historic	No
P-37-020901	2000	Unknown	Balboa Park, California Tower / Structure - Historic	No
P-37-021240	2002	University of San Diego	404-416 Hawthorn	No
P-37-021261	1980	Unknown	Barcelona Apartments / Building - Historic	No
P-37-021270	2002	University of San Diego	425-427 Kalmia	No
P-37-021352	2002	University of San Diego	2004 4th Ave	No
P-37-021356	1980	Unknown	2240-2242 4th Ave / Building - Historic	No
P-37-021357	1980	Unknown	Park Lane Apartments / Building - Historic	No

PRIMARY SITE NO.	YEAR	RECORDED BY / AFFILIATION	RESOURCE NAME / type	WITHIN PROJECT AREA?
P-37-021358	1980	Unknown	Ineva Apartments / Building - Historic	No
P-37-021360	1980	Unknown	York Apartments / Building - Historic	No
P-37-021361	1980	Unknown	La Sara Apartments / Building - Historic	No
P-37-021362	1980	Unknown	"I Am" Sanctuary / Building - Historic	No
P-37-021369	2002	University of San Diego	1964 5th Ave	No
P-37-021370	2002	University of San Diego	2125 5th Ave	No
P-37-021371	2002	University of San Diego	2240 5th Ave	No
P-37-021372	2002	University of San Diego	2266-70 5th Ave	No
P-37-021373	2002	University of San Diego	2309 5th Ave	No
P-37-021382	2002	University of San Diego	1758 6th Ave	No
P-37-021383	2002	University of San Diego	1938-50 6th Ave	No
P-37-021384	2002	University of San Diego	2340 6th Ave	No
P-37-021406	2002	University of San Diego	1665 9th Ave	No
P-37-021418	2002	University of San Diego	1540-50-52-54 10th Ave	No
P-37-021419	2002	University of San Diego	1560-1570 10th Ave	No
P-37-021522	2002	Compushare	2555 5th Ave	No
P-37-021523	2002	Compushare	2642 5th Ave	No
P-37-021651	2002	Compushare	543 Ivy St	No
P-37-023918	2001	Unknown	1945 8th Street	No
P-37-024292 / CA-SDi-016214	2001	Brian F. Smith & Associates	Laurel Bay Apartments	No
P-37-025534 / CA-SDi-016952	2004	Mooney & Associates	Park Laurel, San Diego City Block 283	No
P-37-026691	2005	Brian F. Smith & Associates	Park Place	No
P-37-026846 / CA-SDi-017553	2005	Mooney, Jones, & Stokes	Sewer Group 681-B	No
P-37-026847 / CA-SDi-017554	2005	Mooney, Jones, & Stokes	Sewer Group 681-C	No
P-37-028234	2007	Unknown	Palisades Area, Ford Building	No
P-37-028239	2014	Wilson, Stacie, and Spencer Bietz, Rachel Droessler, and Bryan Gorrie / AECOM	El Prado Area / Building - Historic	No
P-37-028242	2007	Lia & Brandes Team	1645 Ninth Avenue	No
P-37-028400	2007	Burke Lia, Maria	525 Nutmeg Street/ 2658 Sixth Avenue	No
P-37-028592	2007	Unknown	Palomar Apartments	No
P-37-032271 / CA-SDi-020452	2011	Kraft, Jennifer R. / Brian F. Smith & Associates	Group 682M / Site - Historic	No
P-37-032608 / CA-SDi-020672	2012	ASM Affiliates, Inc.	Hotel Florence/Robinson / Site - Historic	No
P-37-033557	2013; 2015; 2017;	2013: Tift, Larry (ASM Affiliates, Inc.);	Highway 395 / Object, Site – Historic	No

PRIMARY SITE NO.	YEAR	RECORDED BY / AFFILIATION	RESOURCE NAME / type	WITHIN PROJECT AREA?
	2018; 2021	2015: Manchen, Kent and Matt DeCarlo (ASM Affiliates, Inc.); 2017: Chateene, Haley (PanGIS); 2017: Foglia, A. and K. Keckeisen (PanGIS); 2018: Stringer-Bowsher, Sarah (ASM Affiliates, Inc.); 2021: Unknown		
P-37-035169	2013	Crawford, K.A. / Crawford Historic Services	San Diego Zoo Skyfari Building; T-Mobile West LLC SD06002A/SD002 San Diego Zoo / Building – Historic	No
P-37-035453	n.d.	Unknown	Unknown	No
P-37-037094	2016; 2017	2016: Smith, Brian F. and Jennifer R.K. Stropes / Brian F. Smith & Associates	2001 Fourth Avenue / Building - Historic	No

37-019073 (CA-SDI-15827): This resource was recorded by Nicole Benjamin of Brian F. Smith and Associates in 2000 during monitoring of the City of San Diego Sewer and Water Group 615 Project. The resource is a historic refuse scatter, identified at a depth of approximately 3 feet. The resource was identified at approximately the intersection of Presidents Way and Pan American E Road, in the southeast corner of the present Project Area. The resource consists of approximately 66 pieces of assorted glass fragments and 27.4 grams of *Haliotis* sp. shell. Dates of resources are contemporaneous with 1911 construction of the Exposition Area.

Though the Balboa Park International Cottages are a contributing element to the Balboa Park National Historic Landmark District, neither the Cottages, nor the larger Balboa Park District have been formally recorded on a California Department of Parks and Recreation (DPR) Series 523 form or designated CHRIS identifiers and entered into the SHPO inventory, though other contributing elements of the larger district have. The Balboa Park National Historic Landmark District is listed in the San Diego County BERD with the status code of 1S, indicating that it was listed individually on the National Register of Historic Places by the Keeper of the National Register and is also listed on the California Register of Historical Places.

5 PEDESTRIAN SURVEY

On April 29, 2025, WSP archaeologist Matthew Behrend, M.A., RPA, who exceeds the qualification set forth in the City of San Diego Historical Resource Guidelines (San Diego Municipal Code, Land Use Code, Attachment B, As Amended, 2022), conducted an intensive pedestrian survey of the Project Area. Coverage of this survey included an area of approximately three acres at 5-meter transect intervals, where possible. Although the entire project area was accessible, visibility within the APE was very poor, with no natural ground surface visible. Within the project area, the ground surface is either covered with concrete, asphalt, or landscaped vegetation such as grass, ornamental bushes and flowers, and landscaping mulch. The entirety of the project area has been subject to repeated episodes of ground disturbance as a result of construction and maintenance of Balboa Park facilities.

6 RECOMMENDATIONS

6.1 ARCHAEOLOGY

Though no archaeological resources were identified during the survey, the Project Area has a moderate potential for intact, subsurface archaeological resources. Therefore, it is recommended that vegetation removal and ground disturbance associated with the Project be monitored by a qualified archaeological monitor, working under the supervision of a City of San Diego qualified archaeologist, and a qualified Native American monitor.

6.2 BUILT ENVIRONMENT

The project would provide an electric utility assessment of the interior lighting to provide the necessary power upgrades for 20 international cottages at Balboa Park. These cottages, all dating to the mid-20th-century, are part of the House of Pacific Relations International Cottages complex within the Balboa Park National Historic Landmark District. The original cottages comprised 15 small, Spanish vernacular-style buildings, which were built for the 1935-1936 California Pacific International Exposition. By 1948, the other subject buildings had been added to the site. All buildings are similar in size, scale, and design, prominently featuring stucco cladding and clay tile roofs.

The cottages have not been previously evaluated for California Register of Historical Resources (CRHR) or National Register of Historic Places (NRHP) eligibility; however, they are potentially eligible for inclusion under Criteria 1 and 3 and Criteria A and C, respectively, as part of a House of Pacific Relations International Cottages Historic District. Criteria 1 for inclusion in the CRHR is related to significant events, as is Criteria A of the NRHP. Likewise, Criteria 3 of the CRHR and Criteria C of the NRHP relate to architecture, design, construction, or high artistic value.

The cottages' architecture exemplifies small-scale exposition design, blending vernacular elements with practical, adaptable construction. Their survival as functional structures is rare among temporary exposition buildings nationwide, further underscoring their significance.

The cottages also serve as tangible reminders of the city's early commitment to cultural pluralism and international exchange. Beyond their architectural and historical significance, they are living institutions, hosting festivals, open houses, and cultural events that continue to celebrate ethnic heritage, foster intercultural understanding, and strengthen community ties. This ongoing use reinforces their historic value, connecting the 1935–1936 exposition context to contemporary San Diego.

Constructed for the California Pacific International Exposition of 1935–1936, the cottages represent the exposition's emphasis on international friendship and cultural exchange. The cottages continue to serve as cultural centers for San Diego's immigrant communities, preserving their historic associations while functioning as a living embodiment of the city's multicultural identity.

At the local level, the cottages are significant within the context of San Diego's history. While the exposition itself was a nationally recognized event, the cottages' lasting importance lies in their continued role as cultural gathering places for San Diego's immigrant communities and their contribution to the layered architectural and cultural landscape of Balboa Park. Their enduring use as centers of heritage and international exchange makes them resources of local historic significance.

Therefore, it is our recommendation that the cottages are consistent with both the California Register of Historical Resources (CRHR) criteria and the National Register of Historic Places (NRHP) criteria, reflecting their cultural, social, and architectural importance.

Specifically, we recommend the cottages potentially eligible for inclusion in the CRHR and NRHP as a historic district, based on the following criteria:

- Criterion 1 (CRHR) / Criterion A (NRHP): Events

  Evaluation: The cottages are associated with events that have made a significant contribution to the broad patterns of California and San Diego history. Specifically, they were constructed for the 1935–1936 California Pacific International Exposition, a major event designed to promote tourism, civic pride, and international friendship during the interwar period.

  Significance: The cottages also reflect the ongoing social history of San Diego, serving as permanent gathering spaces for ethnic and cultural communities, thereby illustrating patterns of immigrant settlement, cultural preservation, and community engagement.

- Criterion 3 (CRHR) / Criterion C (NRHP): Architecture

  Evaluation: The cottages embody distinctive characteristics of small-scale exposition-era architecture, designed to evoke the vernacular styles of various nations. While modest in size, they collectively form a unique architectural ensemble within Balboa Park.

  Significance: Their survival as functional, adapted fair structures is rare, providing tangible evidence of the World's Fair/Exposition Movement in California. The cottages retain integrity of design, materials, workmanship, setting, and association, making them excellent examples of thematic, interpretive architecture from this period.

While the proposed study will not significantly affect the subject buildings or the surrounding streetscape, it is recommended that any electrical upgrades be undertaken in the least intrusive and most design sensitive manner, in accordance with local codes, regulations, and ordinances, and in consultation with City Historic Resources staff, to ensure that any alterations do not detract from the character-defining features of the potential historic district.

If you have any questions regarding the information or recommendations presented in this cultural resources technical memorandum, please feel free to contact me at Michael.kyne@wsp.com or 657-622-2528.

Sincerely,

Michael Kyne, M.A.
Lead Consultant, History
WSP USA Inc.
3560 Hyland Avenue, #100
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7 PREPARERS' QUALIFICATIONS

Michael Kyne is an architectural historian with a Master of Arts degree in Historic Preservation from SCAD's School of Architecture and over 24 years of professional experience, primarily in Maryland and the Mid-Atlantic region. Michael joined WSP in November 2023 and, since then, has worked on projects in a number of western states, including California, Nevada, Arizona, Hawaii, and Washington. His roles with WSP have included CEQA and Section 106 compliance, historic property survey, and preparation of historic context statements. From 2014 through 2023, and prior to coming to WSP, Michael worked at the Maryland-National Capitol Park and Planning Commission (M-NCPPC), where he was Cultural Resources Planner III with the Montgomery County Planning Department's Historic Preservation Section. Other professional experience includes Section 106 review and compliance as a Structural Historian with the West Virginia State Historic Preservation Office, non-profit/museum management as Executive Director and Curator of Collections with the Washington County (Maryland) Historical Society, and several years of internship experience with the Chesapeake & Ohio National Historical Park.

Michael Amorelli is a Secretary of the Interior qualified archaeologist with nine years of experience in cultural resource management in Southern California. Michael holds a Master of Arts in Cultural Heritage Management from Johns Hopkins University and bachelor's degrees in Anthropology and Classical Studies from the University of California, Riverside. Michael is a Registered Professional Archaeologist whose graduate research focused on legal interpretations of NAGPRA, CalNAGPRA and Section 304 of the National Historic Preservation Act and their relationships to Section 106 and CEQA compliance.

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ATTACHMENT A

A PHOTO RECORD

Photo	Description
	Photo 1: House of Spain, facing west. East elevation.
	Photo 2: House of Spain, facing south. North elevation.

	Photo 3: House of Spain, facing east. West elevation.
	Photo 4: House of Spain, facing north. South elevation.

	Photo 5: House of Hungary, facing north. South elevation.
	Photo 6: House of Hungary, facing west. East elevation.

	Photo 7: House of Hungary, facing south. North elevation.
	Photo 8: House of Hungary, facing southeast. West elevation from inside courtyard.

	Photo 9: House of Hungary, facing east. West elevation from street.
	Photo 10: House of Pacific Relations United Nations Building, facing north. South elevation. Access to electrical meters and breakers.

	Photo 11: House of Pacific Relations United Nations Building, facing east. West elevation.
	Photo 12: House of Pacific Relations United Nations Building, facing south. North elevation.

	Photo 13: House of Puerto Rico, facing west. East elevation.
	Photo 14: House of Puerto Rico, facing south. North elevation.

	Photo 15: House of Puerto Rico, facing east. West elevation.
	Photo 16: House of Iran, facing north. South elevation.

	Photo 17: House of Iran, facing west. East elevation.
	Photo 18: House of Iran, facing south. Access to electric meter at east end of north elevation.

	Photo 19: House of Iran, facing southeast. West elevation.
	Photo 20: House of the Philippines, facing southeast. North elevation.

	Photo 21: House of the Philippines, facing southwest. East elevation.
	Photo 22: House of the Philippines, facing north. South elevation.

	Photo 23: House of the Philippines, facing west. East elevation. Access to electric meter and air conditioning unit along east elevation.
	Photo 24: House of Mexico, facing west. East elevation.

	Photo 25: House of Mexico, facing south. North elevation.
	Photo 26: House of Panama, facing south. North elevation.

	Photo 27: House of Panama and House of Mexico building, facing north. South elevation from courtyard.
	Photo 28: House of Pacific Relations Hall of Nations, facing northwest. Southwest elevation.

	Photo 29: House of Pacific Relations Hall of Nations building, facing northeast. Southwest elevation.
	Photo 30: House of Pacific Relations Hall of Nations building, facing north. South elevation.

	Photo 31: House of Pacific Relations Hall of Nations building, facing southeast. Northwest elevation.
	Photo 32: House of Scotland, facing southwest. Northeast elevation.

	Photo 33: House of Scotland, facing northwest. Southeast elevation.
	Photo 34: House of Scotland, facing northeast. Southwest elevation.

	Photo 35: House of Scotland, facing southeast. Northwest elevation.
	Photo 36: House of China, facing south. North elevation.

	Photo 37: House of China, facing northwest. Southeast elevation.
	Photo 38: House of China, facing north. South elevation, behind exterior stucco pony wall.

	Photo 39: House of Norway, facing south. North elevation.
	Photo 40: House of Norway, facing north. South elevation.

	Photo 41: House of Norway, facing west. East elevation from House of China courtyard.
	Photo 42: House of Norway courtyard, facing northeast. Southwest elevation.

	Photo 43: House of Denmark, facing northwest. Southeast elevation.
	Photo 44: House of Denmark, facing northeast. Southwest elevation from House of Sweden courtyard.

	Photo 45: House of Denmark, facing southeast. Northwest elevation.
	Photo 46: House of Sweden, facing southeast. Northwest elevation.

	Photo 47: House of Sweden, facing east.
	Photo 48: House of Sweden, facing northwest. Southeast elevation.

	Photo 49: House of Ukraine, facing west. East elevation.
	Photo 50: House of Ukraine, facing south. North elevation.

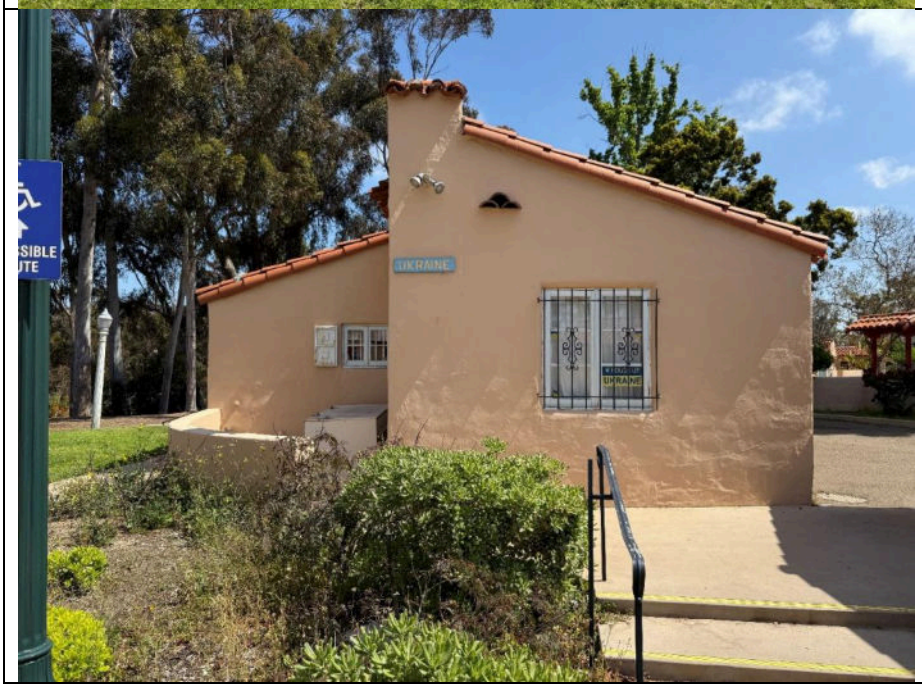
	Photo 51: House of Ukraine, facing east. West elevation.
	**Photo 52:** House of Ukraine, facing north. South elevation.

	Photo 53: House of the United States, facing northeast. South elevation.
	Photo 54: House of the United States, facing east. West elevation.

	Photo 55: House of the United States, facing south. North elevation.
	Photo 56: House of Poland, facing east. West elevation.

	Photo 57: House of Poland, facing south. North elevation.
	Photo 58: House of India and House of Korea building, facing northwest. Southeast elevation.

	Photo 59: House of Turkiye and House of Palestine building, facing southwest. Northeast elevation.
	Photo 60: House of Peru and House of Chamorros building, facing southwest. Northeast elevation.

	Photo 61: House of Turkiye and House of Palestine building, facing north. South elevation.
	Photo 62: House of Finland, facing north. South elevation.

	Photo 63: House of Germany, facing northwest. South elevation.
	Photo 64: House of Germany, facing northwest. Southeast elevation with window detail.

	Photo 65: House of Germany, facing south. North elevation.
	Photo 66: House of Finland, facing southwest. Northeast elevation.

	Photo 67: House of Israel, facing southeast. Northwest elevation.
	Photo 68: House of Israel, facing north. Southwest elevation.

	Photo 69: House of Israel, facing north. Southeast elevation.
	Photo 70: House of Columbia and House of France building, facing east. West elevation.

	Photo 71: House of Columbia and House of France building, facing west. East elevation.
	Photo 72: House of England, facing west. East elevation.

	Photo 73: House of England, facing east. West elevation.
	Photo 74: House of England, facing south.

	Photo 75: House of Czech and Slovak Republics, facing east.
	Photo 76: House of Czech and Slovak Republics, facing southeast. Northwest elevation.

	Photo 77: House of Czech and Slovak Republics, facing southwest. Northeast elevation.
	Photo 78: House of Czech and Slovak Republics, facing west.

Photo 79: House of Czech and Slovak Republics, facing northwest. East elevation.

ATTACHMENT B

B RECORDS SEARCH RESULTS

South Coastal Information Center
San Diego State University
5500 Campanile Drive
San Diego, CA 92182-5320
Office: (619) 594-5682
https://scic.sdsu.edu/

CALIFORNIA HISTORICAL RESOURCES INFORMATION SYSTEM RECORDS SEARCH

Company: WSP USA

Company Representative: Matthew Behrend

Date Processed: 6/3/2025

Project Identification: Balboa Park International Cottages (2024US328332)

Search Radius: 1/2 mile

Historical Resources: JL

Trinomial and Primary site maps have been reviewed. All sites within the project boundaries and the specified radius of the project area have been plotted. Copies of the site record forms have been included for all recorded sites.

Previous Survey Report Boundaries: JL

Project boundary maps have been reviewed. National Archaeological Database (NADB) citations for reports within the project boundaries and within the specified radius of the project area have been included.

Historic Addresses: JL

A map and database of historic properties (formerly Geofinder) has been included.

Summary of SHRC Approved CHRIS IC Records Search Elements
RSID: 3963
RUSH: no
Hours: 1.5
Spatial Features: 155
Address-Mapped Shapes: yes
Digital Database Records: 225
Quads: 1
Aerial Photos: 0
PDFs: 832

This is not an invoice. Please pay from the monthly billing statement

ReportNum	OtherIDs	Authors	CitYear	CitTitle	CitPublisher	ReportType	Resources
SD-01854	NADB-R - 1121854; Voided - HECTOR 59	Hector, Susan		Starlight Bowl	Gerlad Garapich & Associates A.I.A.	Archaeological, Field study	
SD-02628	NADB-R - 1122628; Other - CONTRACT DEP 89-1397 ERCE CONTRACT #30067.004; Voided - CARRICO149	CARRICO, RICHARD, JOYCE CLEVENGER, ANNE COOPER, and DENNIS GALLEGOS	1990	HISTORIC PROPERTIES INVENTORY REPORT FOR THE MISSION VALLEY WATER RECLAMATION PROJECT, SAN DIEGO CALIFORNIA	ERCE	Archaeological, Evaluation, Field study, Management/planning	37-000035, 37-000202, 37-001076, 37-006660, 37-009716, 37-011631, 37-011720, 37-011721, 37-011722, 37-011723, 37-011762, 37-011763, 37-011764, 37-011765, 37-011766, 37-011767
SD-04049	NADB-R - 1124049; Voided - LORIE 01	LORTIE, FRANK and DORENE CLEMENT	1996	HISTORIC RESOURCE EVALUATION REPORT; SEISMIC RETROFIT PROJECT FOR ELEVEN OVERCROSSINGS ON THE CABRILLO FREEWAY, STATE ROUTE 163, SAN DIEGO	FRANK LORTIE AND DORENE CLEMENT	Architectural/Historical	
SD-04604	NADB-R - 1124604; Voided - CITYSD58	CITY OF SAN DIEGO	1993	PUBLIC NOTICE OF DRAFT ENVIRONMENTAL IMPACT REPORT HOUSE OF CHARM RECONSTRUCTION	CITY OF SAN DIEGO	Management/planning, Other research	
SD-04921	NADB-R - 1124921; Voided - CITYSD179	City of San Diego	1998	DEIR Natural History Museum Expansion	City of San Diego	Archaeological, Evaluation	
SD-06158	NADB-R - 1126158; Voided - ROTH 31	ROTH, LINDA	1983	HISTORIC PROPERTIES SURVEY REPORT-DEFENSE ACCESS ROAD PROJECT NAVAL REGIONAL MEDICAL CENTER BALBOA PARK SAN DIEGO, CALIFORNIA US NAVY, WESTERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND	LINDA ROTH	Archaeological, Evaluation, Management/planning	
SD-06209	NADB-R - 1126209; Voided - CITYSD 379	CITY OF SAN DIEGO	2001	MITIGATED NEGATIVE DECLARATION FOR PARK LAUREL	CITY OF SAN DIEGO	Other research	
SD-06392	NADB-R - 1126392; Voided - CITYSD 421	CITY OF SAN DIEGO	1995	NEGATIVE DECLARATION AND NOTICE TO PUBLIC OF REQUEST FOR RELEASE OF COMMUNITY DEVELOPMENT BLOCK GRANT FUNDS (CDBG)	CITY OF SAN DIEGO	Other research	
SD-06509	NADB-R - 1126509; Voided - ROSEN 71	ROSEN, MARTIN	1996	SHORT FORM HPSR-RETROFIT PLAZA DE BALBOA PEDESTRIAN CROSSING	MARTIN ROSEN	Archaeological, Evaluation, Management/planning	
SD-07204	NADB-R - 1127204; Voided - CITYSD 761	CITY OF SAN DIEGO	1999	PUBLIC NOTICE OF PROPOSED DRAFT REVISED NEGATIVE DECLARATION PLAZA OF THE FOUNDERS-SIXTH AVENUE MESA, BALBOA PARK	CITY OF SAN DIEGO	Other research	
SD-07224	NADB-R - 1127224; Voided - CITYSD 775	CITY OF SAN DIEGO	2001	PUBLIC NOTICE OF A PROPOSED MITIGATD NEGATIVE DECLARATION SEWER AND WATER GROUP AND WATER GROUP JOB 681	CITY OF SAN DIEGO	Other research	
SD-07508	NADB-R - 1127508; Voided - DUKE120	Duke, Curt	2002	Cultural Resource Assessment Cingular Wireless Facility No.SD 800-01 San Diego County, CA	LSA Associates, Inc.	Other research	
SD-07704	NADB-R - 1127704; Voided - SMITH 418	BRIAN F. SMITH	2002	AN ARCHAEOLOGICAL REPORT FOR THE MITIGATION, MONITORING, AND REPORTING PROGRAM AT THE LAUREL BAY APARTMENT PROJECT	BRIAN F. SMITH AND ASSOCIATES	Archaeological, Evaluation	
SD-07921	NADB-R - 1127921; Voided - JORDAN03	STACEY C. JORDAN	2002	DRAFT HISTORICAL ARCHITECTURAL EVALUATION FOR THE PROPOSED DEMOLITION OF THE FIRE MEDICAL BUILDING, 3060 5TH AVENUE, SAN DIEGO, CA	MOONEY AND ASSOCIATES	Archaeological, Evaluation	
SD-07998	NADB-R - 1127998; Voided - MAYR43	May, Ronald v.	2002	Historical Nomination of the South Park Commercial Transit Hiistoric District	Legacy 106	Other research	
SD-08363	NADB-R - 1128363; Voided - CITYSD 942	CITY OF SAN DIEGO	2001	PUBLIC NOTICE OF A PROPOSED MITIGATED NEGATIVE DECLARATION FOR WATER AND SEWER GROUP JOB 536	DEVELOPMENT SERVICES DEPT	Archaeological, Evaluation	
SD-08366	NADB-R - 1128366; Voided - CITYSD1003	CITY OF SAN DIEGO	2001	PUBLIC NOTICE OF A PROPOSED NEGATIVE DECLARATION- WEST ARCADE	CITY DEVELOPMENT SERVICES	Other research	
SD-08369	NADB-R - 1128369; Voided - CITYSD1006	CITYSD1006	2001	PUBLIC NOTICE OF A PROPOSED MITIGATED NEGATIVE DECLARATION SEWER AND WATER GROUP 680	CITY DEVELOPMENT SERVICES	Other research	
SD-08450	NADB-R - 1128450; Other - 36-10-004; Voided - BRANDES57	Brandes, Ray	1981	Historic Resources Inventory for Uptown Area, San Diego, California	Department of Parks and Recreation	Other research	
SD-08451	NADB-R - 1128451; Other - 36-10-004; Voided - BRANDES58	Brandes, Ray	1981	Historic Resources Inventory for Middletown Area, San Diego, California Completed by the University of San Diego, January 1981	Department of Parks and Recreation	Other research	
SD-08950	NADB-R - 1128950; Voided - SCHAEFER41	SCHAEFER, JERRY and SINEAD NI GHABHLAIN	2003	A HISTORICAL RESOURCES INVENTORY AND EVALUATION FOR THE PROPOSED SAN DIEGO ZOO-PARK BOULEVARD PROMENADE PROJECT, BALBOA PARK, CITY OF SAN DIEGO, PROJECT NO. 2197	ASM AFFILIATES, INC	Other research	
SD-09007	NADB-R - 1129007; Voided - ROSEN107	ROSEN, MARTIN D.	2004	HISTORICAL RESOURCES COMPLIANCE REPORT FOR THE IMPLEMENTATION OF A CORRIDOR MANAGEMENT PLAN (CMP) ON STATE ROUTE 163 THROUGH BALBOA PARK, CITY OF SAN DIEGO, CALIFORNIA	MARTIN D. ROSEN	Other research	
SD-09113	NADB-R - 1129113; Other - LDR NO. 40-0493; Voided - CASE56	CASE, ROBERT	2004	CULTURAL RESOURCES MITIGATION MONITORING REPORT FOR THE PARK LAUREL CONDOMINIUM PROJECT, UPTOWN COMMUNITY PLANNING AREA, CITY OF SAN DIEGO	MOONEY & ASSOCIATES	Other research	
SD-09324	NADB-R - 1129324; Voided - BURKE38	LIA, MARIE BURKE, CARRICO, SUSAN, and BRANDES, RAY	1989	HISTORIC SITE INVENTORY OF EL CORTEZ		Architectural/Historical	37-000036, 37-000037, 37-000053, 37-000054, 37-007252
SD-09676	NADB-R - 1129676; Voided - PIERSON126	Pierson, Larry J.	2005	A Historical Evaluation for the Prado Walk Project	Brian F. Smith and Asoociates	Archaeological, Evaluation, Other research	37-026691
SD-09680	NADB-R - 1129680; Voided - CLOWER01	Clowery, Sara and Brian F. Smith	2005	An Archaeological Report for the Mitigation, Monitoring, and Reporting Program at the Aloft on Cortez Hill Project	Brian F .Smith and Associates	Archaeological, Evaluation, Other research	37-026886
SD-09962	NADB-R - 1129962; Voided - ROSENM114	ROSEN, MARTIN	2006	HISTORIC PROPERTY SURVEY REPORT AND FINDING OF NO ADVERSE EFFECT WITH STANDARD CONDITIONS FOR THE IMPLEMENTATION OF TWO TRANSPORTATION ENHANCEMENT LANDSCAPING PROJECTS WITHIN THE CABRILLO FREEWAY HISTORIC DISTRICT ON STATE ROUTE 163 IN BALB	CALIFORNIA DEPARTMENT OF TRANSPORTATION	Archaeological, Evaluation, Other research	
SD-09987	NADB-R - 1129987; Other - 0304-799 (Sewer Group 680); Voided - CASER70	Case, Robert and Carol Serr	2005	Cultural Resources Mitigation Monitoring Report for the Sewer Group 680 Project (LDR No. 41-0386), Bankers Hill City of San Diego, California	Mooney, Jones & Stokes	Archaeological, Evaluation	
SD-10140	NADB-R - 1130140; Voided - CASER 73	Case, Robert and Carol J. Serr	2006	Cultural Resources Mitigation monitoring Report for the Sewer group 6814 Project (LDR No. 40-0187), Uptown community City of San Diego, California	Mooney Jones and Stokes	Archaeological, Evaluation, Other research	
SD-10444	NADB-R - 1130444; Voided - MAYV17	May, Vonn Marie	2006	UPTOWN HISTORIC ARCHITECTURAL AND CULTURAL LANDSCAPE RECONNAISSANCE SURVEY	IS Architecture	Archaeological, Evaluation, Other research	

SD-10526	NADB-R - 1130526; Voided - HISTORIC57	VARIOUS		FORD BUILDING	VARIOUS	Archaeological, Evaluation, Other research	
SD-10527	NADB-R - 1130527; Voided - DONALDS18	DONALDSON, MILFORD WAYNE	1995	SAN DIEGO AEROSPACE MUSEUM EXPANSION OF EDUCATIONAL FACILITIES	MILFORD WAYNE DONALDSON, FAIA, INC.	Archaeological, Evaluation, Other research	
SD-10528	NADB-R - 1130528; Voided - BALBOA01	VARIOUS		MISC. FILE FOLDER FOR BALBOA PARK; BUILDINGS AND HSB DOCUMENTS	VARIOUS	Archaeological, Evaluation, Other research	
SD-10551	NADB-R - 1130551; Voided - ARRINGT01	ARRINGTON, CINDY	2006	CULTURAL RESOURCES FINAL REPORT OF MONITORING AND FINDINGS FOR THE QWEST NETWORK CONSTRUCTION PROJECT, STATE OF CALIFORNIA	SWCA ENVIRONMENTAL CONSULTANTS	Archaeological, Evaluation, Field study, Monitoring, Other research	
SD-10779	NADB-R - 1130779; Voided - CRAWFORD76	CRAWFORD, KATHLEEN	2004	HISTORICAL ASSESSMENT OF THE "LE MODERNE" APARTMENT COMPLEX 525-531 NUTMEG STREET / 2650-2680 SIXTH AVENUE SAN DIEGO, CALIFORNIA	OFFICE OF MARIE BURKE LIA	Archaeological, Evaluation, Other research	
SD-10841	NADB-R - 1130841; Voided - HISTORI109	LORTIE, FRANK	1996	REPORT FOR THE CABRILLO FREEWAY/ STATE ROUTE 163	CALTRANS	Archaeological, Evaluation, Other research	
SD-11039	NADB-R - 1131039; Voided - HISTORI210	VARIOUS		PALOMAR APARTMENTS, 536 MAPLE STREET, SAN DIEGO, CALIFORNIA 92103		Archaeological, Evaluation, Other research	
SD-11123	NADB-R - 1131123; Voided - KYLE331	KYLE, CAROLYN E.	2007	CULTURAL RESOURCE STUDY FOR THE CITY COLLEGE MASTER PLAN SAN DIEGO, CALIFORNIA	KYLE CONSULTING	Archaeological, Evaluation, Other research	
SD-11200	NADB-R - 1131200; Voided - ROSENM119	ROSEN, MARTIN D.	2007	HISTORIC PROPERTY SURVEY REPORT FOR THE QUINCE STREET BRIDGE OVERCROSSING	CALTRANS	Archaeological, Evaluation, Other research	
SD-11508	NADB-R - 1131508; Voided - CRAWFORD80	CRAWFORD, KATHLEEN A. and MARIE BURKE LIA	2006	JOHN GINTY HOUSE - NATIONAL REGISTER OF HISTORIC PLACES REGISTRATION FORM	KATHLEEN A. CRAWFORD	Archaeological, Evaluation, Other research	
SD-12200	NADB-R - 1132200; Other - Project No. 42891 SCH No. 200101032; Voided - CITYSD1081		2009	DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE MASTER STORM WATER SYSTEM MAINTENANCE PROGRAM (MSWSMP)	CITY OF SAN DIEGO DEVELOPMENT SERVICES DEPARTMENT	Archaeological, Evaluation, Other research	
SD-12821	NADB-R - 1132821; Voided - ROSENM142	ROSEN, MARTIN D.	2010	COMPLETION OF SECTION 106 AND FILING OF HISTORIC PROPERTY SURVEY REPORT (HPSR) FOR THE CABRILLO BRIDGE SEISMIC RETROFIT AND REHABILITATION PROJECT OVER STATE ROUTE 163	ROSEN, MARTIN D.	Archaeological, Evaluation, Other research	
SD-12988	NADB-R - 1132988; Voided - VANWORM45	VAN WORMER, STEPHEN R.	2011	HISTORICAL RESOURCES COMPLIANCE REPORT FPR THE CITY OF SAN DIEGO'S CABRILLO TRUNK SEWER EMERGENCY REPAIR SAN DIEGO COUNTY, CALIFORNIA	AFFINIS	Archaeological, Evaluation, Other research	
SD-13223	NADB-R - 1133223; Voided - RUPPERT01	RUPPERT, RORY	2011	SECTION 106 CONSULTATION FOR ENERGY UPGRADES, WORLDBEAT CENTER, BALBOA PARK, SAN DIEGO, CA	BALBOA PARK CULTURAL PARTNERSHIP	Archaeological, Evaluation, Other research	
SD-13284	NADB-R - 1133284; Voided - CITYSD1099	CITY OF SAN DIEGO	2012	BABLOA PARK PLAZA DE PANAMA	CITY OF SAN DIEGO	Archaeological, Evaluation, Other research	
SD-13321	NADB-R - 1133321; Voided - TSUNOK10	TSUNODA, KOJI	2011	HISTORIC PROPERTY SURVEY REPORT FOR THE CABRILLO FREEWAY HISTORIC DISTRICT REHABILITATION TRANSPORTATION ENHANCEMENT PROJECT PHASE II SAN DIEGO COUNTY, CALIFORNIA	CALIFORNIA DEPARTMENT OF TRANSPORTATION	Archaeological, Evaluation, Other research	37-016279
SD-13350	NADB-R - 1133350; Voided - STROPT25	STROPES, TRACY A. and BRIAN F. SMITH	2011	MITIGATION MONITORING REPORT FOR THE SEWER GROUP 682M PROJECT	BRIAN F. SMITH AND ASSOCIATES, INC.	Archaeological, Evaluation, Other research	37-032271
SD-13357	NADB-R - 1133357; Voided - PEREZD08	PEREZ, DON C.	2011	NAVAL HOSPITAL (BALBOA ACTIVITY CENTER)/ ENSITE #10431 2145 PARK BOULEVARD SAN DIEGO SAN DIEGO COUNTY, CALIFORNIA 92101	EBI CONSULTING	Archaeological, Evaluation, Other research	37-009716, 37-011721, 37-019072, 37-019073, 37-019074
SD-13436	NADB-R - 1133436; Voided - STROPT29	STROPES, TRACY A. and BRIAN F. SMITH	2012	MITIGATION MONITORING REPORT FOR THE SEWER GROUP 682 PROJECT	BRIAN F. SMITH AND ASSOCIATES	Archaeological, Evaluation, Other research	37-032549
SD-13799	NADB-R - 1133799; Voided - CITYSD1105	CITY OF SAN DIEGO	2011	ADDENDUM TO MITIGATED NEGATIVE DECLARATION NO. 255100, SEWER AND WATER GROUP 957	CITY OF SAN DEIGO	Archaeological, Evaluation, Other research	
SD-13992	NADB-R - 1133992; Voided - CITYSD1112	CITY OF SAN DIEGO	2011	WATER GROUP JOB 945	CITY OF SAN DIEGO	Archaeological, Evaluation, Other research	
SD-14062	NADB-R - 1134062; Voided - WOLF05	WOLF, SCOTT	2011	MONITORING FOR CULTURAL RESOURCES USING THE ARCHAEOLOGICAL RESOURCES REPORT FORM (APPENDIX D) FOR THE SAN DIEGO ZOO EQUALIZATION TANK (PANDA CANYON) MONITORING PROJECT, SAN DIEGO, CALIFORNIA	ASM AFFILIATES, INC.	Archaeological, Evaluation, Other research	37-019074, 37-028239
SD-14261	NADB-R - 1134261; Voided - BOWDEN134	BOWDEN-RENNA, CHERYL	2012	LETTER REPORT: ETS 22182 CULTURAL RESOURCES MONITORING FOR CONDUIT TRENCH EXCAVATION, SAN DIEGO GAS AND ELECTRIC SUSTAINABLE COMMUNITIES PROJECT, SAN DIEGO ZOO, CITY OF SAN DIEGO, CALIFORNIA	AECOM	Archaeological, Evaluation, Other research	37-018425, 37-018426, 37-028239
SD-14483	NADB-R - 1134483; Voided - VANWORM51	VAN WORMER, STEPHEN R.	2013	HISTORICAL RESOURCES COMPLIANCE REPORT FOR THE CITY OF SAN DIEGO'S BUCHANAN CANYON SEWER REPLACEMENT- B ACCELERATED SAN DIEGO COUNTY, CALIFORNIA	AFFINIS	Archaeological, Evaluation, Other research	
SD-14549	NADB-R - 1134549; Voided - WILSONS80	WILSON, STACIE	2013	LETTER REPORT: ETS 24895- CULTURAL RESOURCES MONITORING REPORT FOR LAUREL STREET BRIDGE GAS LINE REMOVAL, UPTOWN AREA OF THE CITY OF SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA- IO 7011102	AECOM	Archaeological, Evaluation, Other research	37-016279, 37-028239
SD-14743	NADB-R - 1134743; Voided - TSUNOK18	TSUNODA, KOJI	2014	HISTORICAL RESOURCES COMPLIANCE REPORT FOR THE WASHINGTON STREET BRIDGE ACCESS CONTROL PROJECT SAN DIEGO COUNTY, CALIFORNIA	CALTRANS	Archaeological, Evaluation, Other research	
SD-14786	NADB-R - 1134786; Voided - LOFTUSS109	LOFTUS, SHANNON	2013	CULTURAL RESOURCE RECORDS SEARCH AND SITE SURVEY AT&T SITE ATTBAL10M3 SAN DIEGO DAS SOUTHWEST OF ZOO PLACE AND PARK BOULEVARD (2860 1/3 PARK BOULEVARD) SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA 92101	ACE ENVIRONMENTAL, LLC	Archaeological, Evaluation, Other research	37-018427
SD-15098	NADB-R - 1135098	KAROLINA A. CHMIEL	2014	LETTER REPORT: ETS 26861- CULTURAL RESOURCES MONITORING FOR ANODES INSTALLATION ACTIVITIES AT BALBOA PARK, SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA--IO7011101	ICF INTERNATIONAL	Archaeological, Field study, Monitoring, Other research	37-019072, 37-024540, 37-028239, 37-029836
SD-15116	NADB-R - 1135116	WAYNE H. BONNER and KATHLEEN A. CRAWFORD	2014	DIRECT APE HISTORIC ARCHITECTURAL ASSESSMENT FOR T-MOBILE WEST, LLC CANDIDATE SD06800A (SD800 5TH AVENUE FINANCIAL) 2550 5TH AVENUE, SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA	ENVIRONMENTAL ASSESSMENT SPECIALISTS, INC.	Architectural/Historical, Evaluation, Field study, Other research	

SD-15151	NADB-R - 1135151	DAVID BRUNZELL	2015	CULTURAL RESOURCES ASSESSMENT OF THE CROWN CASTLE/ VERIZON FIBER PUC PROJECT, SAN DIEGO, CALIFORNIA (BCR CONSULTING PROJECT NO. SYN1404)	BCR CONSULTING LLC	Archaeological, Evaluation, Field study, Other research	
SD-15513	NADB-R - 1135513	Brian F. Smith and David K. Grabski	2015	Cultural Resource Monitoring Report for the Water Group 945 Project, San Diego, California	Brian F. Smith and Associates	Archaeological, Management/planning, Monitoring	
SD-15609	NADB-R - 1135609	Wayne H. Bonner, Sarah A. Williams, and Kathleen A. Crawford	2014	CULTURAL RESOURCES RECORDS SEARCH AND SITE VISIT RESULTS FOR T-MOBILE WEST, LLC CANDIDATE SD06002A (SD002 SAN DIEGO ZOO) 2920 ZOO DRIVE, SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA		Archaeological, Evaluation, Field study	
SD-15610	NADB-R - 1135610	Wayne H. Bonner and Kathleen A. Crawford	2014	DIRECT APE HISTORIC ARCHITECTURAL ASSESSMENT FOR T-MOBILE WEST, LLC CANDIDATE SD06002A (SD002 SAN DIEGO ZOO) 2920 ZOO DRIVE, SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA	EAS	Archaeological, Evaluation	
SD-15635	NADB-R - 1135635	Wayne H. Bonner, Sarah A. Williams, and Kathleen A. Crawford	2014	CULTURAL RESOURCES RECORDS SEARCH AND SITE VISIT RESULTS FOR T-MOBILE WEST, LLC CANDIDATE SD06800A (SD800 5TH AVENUE FINANCIAL) 2550 5TH AVENUE, SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA	Environmental Assessment Specialists, Inc	Archaeological, Evaluation	
SD-16180	NADB-R - 1136180; Submitter - 452426	Brian F. Smith and Elena C. Goralogia	2015	CULTURAL RESOURCE MONITORING REPORT FOR THE PARK BOULEVARD MEDIAN IMPROVEMENTS PROJECT SAN DIEGO, CALIFORNIA	Brian F. Smith and Associates	Archaeological, Monitoring	
SD-16245	NADB-R - 1136245	Julie Roy	2015	LETTER REPORT: ETS 26086 - CULTURAL RESOURCES MONITORING REPORT FOR CALIFORNIA TOWER SEISMIC UPGRADE, BALBOA PARK - MUSEUM OF MAN, CITY OF SAN DIEGO, CALIFORNIA - IO 7011107	AECOM	Archaeological, Monitoring	37-028239
SD-16427	NADB-R - 1136427	MIKESELL, STEPHEN D.	1987	ARCHIE MOORE HOME, 3517 E STREET, SAN DIEGO, CA 92102	Caltrans	Architectural/Historical	
SD-16506	NADB-R - 1136506; Submitter - 434746	HERRMANN, MYRA	2016	HOUSE OF PACIFIC RELATIONS - NEW INTERNATIONAL COTTAGES	City of San Diego	Architectural/Historical	
SD-16802	NADB-R - 1136802		2016	UPTOWN COMMUNITY PLAN AREA DRAFT HISTORIC RESOURCES SURVEY REPORT	CITY OF SAN DIEGO PLANNING DEPARTMENT	Architectural/Historical	37-016203, 37-016204
SD-16833	NADB-R - 1136833; Submitter - 523694	SMITH, BRIAN F.	2016	HISTORICAL RESOURCE RESEARCH REPORT FOR 2001 FOURTH AVENUE SAN DIEGO, CALIFORNIA PROJECT NO. 523694	Brian F. Smith and Associates	Architectural/Historical	37-037094
SD-17233	NADB-R - 1137233; Submitter - BCR Project No. SYN1622	BRUNZELL, DAVID	2017	SAN DIEGO 129 PROJECT, SAN DIEGO COUNTY, CALIFORNIA (BCR CONSULTING PROJECT NO. SYN1622)	BCR Consulting LLC	Archaeological, Field study, Literature search	
SD-17236	NADB-R - 1137236; NADB-R - BCR Project No. SYN1616b	BRUNZELL, DAVID	2017	VZW 32ND AND COMMERCIAL PUC PROJECT, SAN DIEGO, CALIFORNIA (BCR CONSULTING PROJECT NO. SYN1616B)	BCR Consulting LLC	Archaeological, Field study, Literature search	
SD-17997	NADB-R - 1137997	KISTLER, ANNAMARIE and JAIME DESTEFANO	2017	PROPOSED SMALL CELL TELECOMMUNICATION FACILITY, THREE NODES LOCATED WITHIN 250 FEET OF A HISTORIC DISTRICT, MOBILITIE CALIFORNIA SMALL CELL PROJECT, SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA, ECA PROJECT #: T1774	ENVIRONMENTAL CORPORATION OF AMERICA	Architectural/Historical, Other research	
SD-18116	NADB-R - 1138116	WOLFE, TIM	2019	LETTER REPORT: ETS 38027 - CULTURAL RESOURCES MONITORING REPORT FOR PLAZA DE PANAMA PIPELINE REPLACEMENT, BALBOA PARK, CITY OF SAN DIEGO, CALIFORNIA - IO 7074262	AECOM	Archaeological, Monitoring	
SD-19514	NADB-R - 1139514	HERITAGE ARCHITECTURE & PLANNING	2020	BALBOA PARK CAROUSEL, 1889 ZOO PLACE, SAN DIEGO, CA 92101	HERITAGE ARCHITECTURE & PLANNING	Architectural/Historical, Other research	37-018426

ReportNum	OtherIDs	Authors	CitYear	CitTitle	CitPublisher	ReportType	Resources
SD-01854	NADB-R - 1121854; Voided - HECTOR 59	Hector, Susan		Starlight Bowl	Gerlad Garapich & Associates A.I.A.	Archaeological, Field study	
SD-02628	NADB-R - 1122628; Other - CONTRACT DEP 89-1397 ERCE CONTRACT #30067.004; Voided - CARRICO149	CARRICO, RICHARD, JOYCE CLEVENGER, ANNE COOPER, and DENNIS GALLEGOS	1990	HISTORIC PROPERTIES INVENTORY REPORT FOR THE MISSION VALLEY WATER RECLAMATION PROJECT, SAN DIEGO CALIFORNIA	ERCE	Archaeological, Evaluation, Field study, Management/planning	37-000035, 37-000202, 37-001076, 37-006660, 37-009716, 37-011631, 37-011720, 37-011721, 37-011722, 37-011723, 37-011762, 37-011763, 37-011764, 37-011765, 37-011766, 37-011767
SD-04049	NADB-R - 1124049; Voided - LORIE 01	LORTIE, FRANK and DORENE CLEMENT	1996	HISTORIC RESOURCE EVALUATION REPORT; SEISMIC RETROFIT PROJECT FOR ELEVEN OVERCROSSINGS ON THE CABRILLO FREEWAY, STATE ROUTE 163, SAN DIEGO	FRANK LORTIE AND DORENE CLEMENT	Architectural/Historical	
SD-04604	NADB-R - 1124604; Voided - CITYSD58	CITY OF SAN DIEGO	1993	PUBLIC NOTICE OF DRAFT ENVIRONMENTAL IMPACT REPORT HOUSE OF CHARM RECONSTRUCTION	CITY OF SAN DIEGO	Management/planning, Other research	
SD-04921	NADB-R - 1124921; Voided - CITYSD179	City of San Diego	1998	DEIR Natural History Museum Expansion	City of San Diego	Archaeological, Evaluation	
SD-06158	NADB-R - 1126158; Voided - ROTH 31	ROTH, LINDA	1983	HISTORIC PROPERTIES SURVEY REPORT-DEFENSE ACCESS ROAD PROJECT NAVAL REGIONAL MEDICAL CENTER BALBOA PARK SAN DIEGO, CALIFORNIA US NAVY, WESTERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND	LINDA ROTH	Archaeological, Evaluation, Management/planning	
SD-06209	NADB-R - 1126209; Voided - CITYSD 379	CITY OF SAN DIEGO	2001	MITIGATED NEGATIVE DECLARATION FOR PARK LAUREL	CITY OF SAN DIEGO	Other research	
SD-06392	NADB-R - 1126392; Voided - CITYSD 421	CITY OF SAN DIEGO	1995	NEGATIVE DECLARATION AND NOTICE TO PUBLIC OF REQUEST FOR RELEASE OF COMMUNITY DEVELOPMENT BLOCK GRANT FUNDS (CDBG)	CITY OF SAN DIEGO	Other research	
SD-06509	NADB-R - 1126509; Voided - ROSEN 71	ROSEN, MARTIN	1996	SHORT FORM HPSR-RETROFIT PLAZA DE BALBOA PEDESTRIAN CROSSING	MARTIN ROSEN	Archaeological, Evaluation, Management/planning	
SD-07204	NADB-R - 1127204; Voided - CITYSD 761	CITY OF SAN DIEGO	1999	PUBLIC NOTICE OF PROPOSED DRAFT REVISED NEGATIVE DECLARATION PLAZA OF THE FOUNDERS-SIXTH AVENUE MESA, BALBOA PARK	CITY OF SAN DIEGO	Other research	
SD-07224	NADB-R - 1127224; Voided - CITYSD 775	CITY OF SAN DIEGO	2001	PUBLIC NOTICE OF A PROPOSED MITIGATD NEGATIVE DECLARATION SEWER AND WATER GROUP AND WATER GROUP JOB 681	CITY OF SAN DIEGO	Other research	
SD-07508	NADB-R - 1127508; Voided - DUKE120	Duke, Curt	2002	Cultural Resource Assessment Cingular Wireless Facility No.SD 800-01 San Diego County, CA	LSA Associates, Inc.	Other research	
SD-07704	NADB-R - 1127704; Voided - SMITH 418	BRIAN F. SMITH	2002	AN ARCHAEOLOGICAL REPORT FOR THE MITIGATION, MONITORING, AND REPORTING PROGRAM AT THE LAUREL BAY APARTMENT PROJECT	BRIAN F. SMITH AND ASSOCIATES	Archaeological, Evaluation	
SD-07921	NADB-R - 1127921; Voided - JORDAN03	STACEY C. JORDAN	2002	DRAFT HISTORICAL ARCHITECTURAL EVALUATION FOR THE PROPOSED DEMOLITION OF THE FIRE MEDICAL BUILDING, 3060 5TH AVENUE, SAN DIEGO, CA	MOONEY AND ASSOCIATES	Archaeological, Evaluation	
SD-07998	NADB-R - 1127998; Voided - MAYR43	May, Ronald v.	2002	Historical Nomination of the South Park Commercial Transit Hiistoric District	Legacy 106	Other research	
SD-08363	NADB-R - 1128363; Voided - CITYSD 942	CITY OF SAN DIEGO	2001	PUBLIC NOTICE OF A PROPOSED MITIGATED NEGATIVE DECLARATION FOR WATER AND SEWER GROUP JOB 536	DEVELOPMENT SERVICES DEPT	Archaeological, Evaluation	
SD-08366	NADB-R - 1128366; Voided - CITYSD1003	CITY OF SAN DIEGO	2001	PUBLIC NOTICE OF A PROPOSED NEGATIVE DECLARATION- WEST ARCADE	CITY DEVELOPMENT SERVICES	Other research	
SD-08369	NADB-R - 1128369; Voided - CITYSD1006	CITYSD1006	2001	PUBLIC NOTICE OF A PROPOSED MITIGATED NEGATIVE DECLARATION SEWER AND WATER GROUP 680	CITY DEVELOPMENT SERVICES	Other research	
SD-08450	NADB-R - 1128450; Other - 36-10-004; Voided - BRANDES57	Brandes, Ray	1981	Historic Resources Inventory for Uptown Area, San Diego, California	Department of Parks and Recreation	Other research	
SD-08451	NADB-R - 1128451; Other - 36-10-004; Voided - BRANDES58	Brandes, Ray	1981	Historic Resources Inventory for Middletown Area, San Diego, California Completed by the University of San Diego, January 1981	Department of Parks and Recreation	Other research	
SD-08950	NADB-R - 1128950; Voided - SCHAEFER41	SCHAEFER, JERRY and SINEAD NI GHABHLAIN	2003	A HISTORICAL RESOURCES INVENTORY AND EVALUATION FOR THE PROPOSED SAN DIEGO ZOO-PARK BOULEVARD PROMENADE PROJECT, BALBOA PARK, CITY OF SAN DIEGO, PROJECT NO. 2197	ASM AFFILIATES, INC	Other research	
SD-09007	NADB-R - 1129007; Voided - ROSEN107	ROSEN, MARTIN D.	2004	HISTORICAL RESOURCES COMPLIANCE REPORT FOR THE IMPLEMENTATION OF A CORRIDOR MANAGEMENT PLAN (CMP) ON STATE ROUTE 163 THROUGH BALBOA PARK, CITY OF SAN DIEGO, CALIFORNIA	MARTIN D. ROSEN	Other research	
SD-09113	NADB-R - 1129113; Other - LDR NO. 40-0493; Voided - CASE56	CASE, ROBERT	2004	CULTURAL RESOURCES MITIGATION MONITORING REPORT FOR THE PARK LAUREL CONDOMINIUM PROJECT, UPTOWN COMMUNITY PLANNING AREA, CITY OF SAN DIEGO	MOONEY & ASSOCIATES	Other research	
SD-09324	NADB-R - 1129324; Voided - BURKE38	LIA, MARIE BURKE, CARRICO, SUSAN, and BRANDES, RAY	1989	HISTORIC SITE INVENTORY OF EL CORTEZ		Architectural/Historical	37-000036, 37-000037, 37-000053, 37-000054, 37-007252
SD-09676	NADB-R - 1129676; Voided - PIERSON126	Pierson, Larry J.	2005	A Historical Evaluation for the Prado Walk Project	Brian F. Smith and Asoociates	Archaeological, Evaluation, Other research	37-026691
SD-09680	NADB-R - 1129680; Voided - CLOWER01	Clowery, Sara and Brian F. Smith	2005	An Archaeological Report for the Mitigation, Monitoring, and Reporting Program at the Aloft on Cortez Hill Project	Brian F .Smith and Associates	Archaeological, Evaluation, Other research	37-026886
SD-09962	NADB-R - 1129962; Voided - ROSENM114	ROSEN, MARTIN	2006	HISTORIC PROPERTY SURVEY REPORT AND FINDING OF NO ADVERSE EFFECT WITH STANDARD CONDITIONS FOR THE IMPLEMENTATION OF TWO TRANSPORTATION ENHANCEMENT LANDSCAPING PROJECTS WITHIN THE CABRILLO FREEWAY HISTORIC DISTRICT ON STATE ROUTE 163 IN BALB	CALIFORNIA DEPARTMENT OF TRANSPORTATION	Archaeological, Evaluation, Other research	
SD-09987	NADB-R - 1129987; Other - 0304-799 (Sewer Group 680); Voided - CASER70	Case, Robert and Carol Serr	2005	Cultural Resources Mitigation Monitoring Report for the Sewer Group 680 Project (LDR No. 41-0386), Bankers Hill City of San Diego, California	Mooney, Jones & Stokes	Archaeological, Evaluation	
SD-10140	NADB-R - 1130140; Voided - CASER 73	Case, Robert and Carol J. Serr	2006	Cultural Resources Mitigation monitoring Report for the Sewer group 6814 Project (LDR No. 40-0187), Uptown community City of San Diego, California	Mooney Jones and Stokes	Archaeological, Evaluation, Other research	
SD-10444	NADB-R - 1130444; Voided - MAYV17	May, Vonn Marie	2006	UPTOWN HISTORIC ARCHITECTURAL AND CULTURAL LANDSCAPE RECONNAISSANCE SURVEY	IS Architecture	Archaeological, Evaluation, Other research	

SD-10526	NADB-R - 1130526; Voided - HISTORIC57	VARIOUS		FORD BUILDING	VARIOUS	Archaeological, Evaluation, Other research	
SD-10527	NADB-R - 1130527; Voided - DONALDS18	DONALDSON, MILFORD WAYNE	1995	SAN DIEGO AEROSPACE MUSEUM EXPANSION OF EDUCATIONAL FACILITIES	MILFORD WAYNE DONALDSON, FAIA, INC.	Archaeological, Evaluation, Other research	
SD-10528	NADB-R - 1130528; Voided - BALBOA01	VARIOUS		MISC. FILE FOLDER FOR BALBOA PARK; BUILDINGS AND HSB DOCUMENTS	VARIOUS	Archaeological, Evaluation, Other research	
SD-10551	NADB-R - 1130551; Voided - ARRINGT01	ARRINGTON, CINDY	2006	CULTURAL RESOURCES FINAL REPORT OF MONITORING AND FINDINGS FOR THE QWEST NETWORK CONSTRUCTION PROJECT, STATE OF CALIFORNIA	SWCA ENVIRONMENTAL CONSULTANTS	Archaeological, Evaluation, Field study, Monitoring, Other research	
SD-10779	NADB-R - 1130779; Voided - CRAWFORD76	CRAWFORD, KATHLEEN	2004	HISTORICAL ASSESSMENT OF THE "LE MODERNE" APARTMENT COMPLEX 525-531 NUTMEG STREET / 2650-2680 SIXTH AVENUE SAN DIEGO, CALIFORNIA	OFFICE OF MARIE BURKE LIA	Archaeological, Evaluation, Other research	
SD-10841	NADB-R - 1130841; Voided - HISTORI109	LORTIE, FRANK	1996	REPORT FOR THE CABRILLO FREEWAY/ STATE ROUTE 163	CALTRANS	Archaeological, Evaluation, Other research	
SD-11039	NADB-R - 1131039; Voided - HISTORI210	VARIOUS		PALOMAR APARTMENTS, 536 MAPLE STREET, SAN DIEGO, CALIFORNIA 92103		Archaeological, Evaluation, Other research	
SD-11123	NADB-R - 1131123; Voided - KYLE331	KYLE, CAROLYN E.	2007	CULTURAL RESOURCE STUDY FOR THE CITY COLLEGE MASTER PLAN SAN DIEGO, CALIFORNIA	KYLE CONSULTING	Archaeological, Evaluation, Other research	
SD-11200	NADB-R - 1131200; Voided - ROSENM119	ROSEN, MARTIN D.	2007	HISTORIC PROPERTY SURVEY REPORT FOR THE QUINCE STREET BRIDGE OVERCROSSING	CALTRANS	Archaeological, Evaluation, Other research	
SD-11508	NADB-R - 1131508; Voided - CRAWFORD80	CRAWFORD, KATHLEEN A. and MARIE BURKE LIA	2006	JOHN GINTY HOUSE - NATIONAL REGISTER OF HISTORIC PLACES REGISTRATION FORM	KATHLEEN A. CRAWFORD	Archaeological, Evaluation, Other research	
SD-12200	NADB-R - 1132200; Other - Project No. 42891 SCH No. 200101032; Voided - CITYSD1081		2009	DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE MASTER STORM WATER SYSTEM MAINTENANCE PROGRAM (MSWSMP)	CITY OF SAN DIEGO DEVELOPMENT SERVICES DEPARTMENT	Archaeological, Evaluation, Other research	
SD-12821	NADB-R - 1132821; Voided - ROSENM142	ROSEN, MARTIN D.	2010	COMPLETION OF SECTION 106 AND FILING OF HISTORIC PROPERTY SURVEY REPORT (HPSR) FOR THE CABRILLO BRIDGE SEISMIC RETROFIT AND REHABILITATION PROJECT OVER STATE ROUTE 163	ROSEN, MARTIN D.	Archaeological, Evaluation, Other research	
SD-12988	NADB-R - 1132988; Voided - VANWORM45	VAN WORMER, STEPHEN R.	2011	HISTORICAL RESOURCES COMPLIANCE REPORT FPR THE CITY OF SAN DIEGO'S CABRILLO TRUNK SEWER EMERGENCY REPAIR SAN DIEGO COUNTY, CALIFORNIA	AFFINIS	Archaeological, Evaluation, Other research	
SD-13223	NADB-R - 1133223; Voided - RUPPERT01	RUPPERT, RORY	2011	SECTION 106 CONSULTATION FOR ENERGY UPGRADES, WORLDBEAT CENTER, BALBOA PARK, SAN DIEGO, CA	BALBOA PARK CULTURAL PARTNERSHIP	Archaeological, Evaluation, Other research	
SD-13284	NADB-R - 1133284; Voided - CITYSD1099	CITY OF SAN DIEGO	2012	BABLOA PARK PLAZA DE PANAMA	CITY OF SAN DIEGO	Archaeological, Evaluation, Other research	
SD-13321	NADB-R - 1133321; Voided - TSUNOK10	TSUNODA, KOJI	2011	HISTORIC PROPERTY SURVEY REPORT FOR THE CABRILLO FREEWAY HISTORIC DISTRICT REHABILITATION TRANSPORTATION ENHANCEMENT PROJECT PHASE II SAN DIEGO COUNTY, CALIFORNIA	CALIFORNIA DEPARTMENT OF TRANSPORTATION	Archaeological, Evaluation, Other research	37-016279
SD-13350	NADB-R - 1133350; Voided - STROPT25	STROPES, TRACY A. and BRIAN F. SMITH	2011	MITIGATION MONITORING REPORT FOR THE SEWER GROUP 682M PROJECT	BRIAN F. SMITH AND ASSOCIATES, INC.	Archaeological, Evaluation, Other research	37-032271
SD-13357	NADB-R - 1133357; Voided - PEREZD08	PEREZ, DON C.	2011	NAVAL HOSPITAL (BALBOA ACTIVITY CENTER)/ ENSITE #10431 2145 PARK BOULEVARD SAN DIEGO SAN DIEGO COUNTY, CALIFORNIA 92101	EBI CONSULTING	Archaeological, Evaluation, Other research	37-009716, 37-011721, 37-019072, 37-019073, 37-019074
SD-13436	NADB-R - 1133436; Voided - STROPT29	STROPES, TRACY A. and BRIAN F. SMITH	2012	MITIGATION MONITORING REPORT FOR THE SEWER GROUP 682 PROJECT	BRIAN F. SMITH AND ASSOCIATES	Archaeological, Evaluation, Other research	37-032549
SD-13799	NADB-R - 1133799; Voided - CITYSD1105	CITY OF SAN DIEGO	2011	ADDENDUM TO MITIGATED NEGATIVE DECLARATION NO. 255100, SEWER AND WATER GROUP 957	CITY OF SAN DEIGO	Archaeological, Evaluation, Other research	
SD-13992	NADB-R - 1133992; Voided - CITYSD1112	CITY OF SAN DIEGO	2011	WATER GROUP JOB 945	CITY OF SAN DIEGO	Archaeological, Evaluation, Other research	
SD-14062	NADB-R - 1134062; Voided - WOLF05	WOLF, SCOTT	2011	MONITORING FOR CULTURAL RESOURCES USING THE ARCHAEOLOGICAL RESOURCES REPORT FORM (APPENDIX D) FOR THE SAN DIEGO ZOO EQUALIZATION TANK (PANDA CANYON) MONITORING PROJECT, SAN DIEGO, CALIFORNIA	ASM AFFILIATES, INC.	Archaeological, Evaluation, Other research	37-019074, 37-028239
SD-14261	NADB-R - 1134261; Voided - BOWDEN134	BOWDEN-RENNA, CHERYL	2012	LETTER REPORT: ETS 22182 CULTURAL RESOURCES MONITORING FOR CONDUIT TRENCH EXCAVATION, SAN DIEGO GAS AND ELECTRIC SUSTAINABLE COMMUNITIES PROJECT, SAN DIEGO ZOO, CITY OF SAN DIEGO, CALIFORNIA	AECOM	Archaeological, Evaluation, Other research	37-018425, 37-018426, 37-028239
SD-14483	NADB-R - 1134483; Voided - VANWORM51	VAN WORMER, STEPHEN R.	2013	HISTORICAL RESOURCES COMPLIANCE REPORT FOR THE CITY OF SAN DIEGO'S BUCHANAN CANYON SEWER REPLACEMENT- B ACCELERATED SAN DIEGO COUNTY, CALIFORNIA	AFFINIS	Archaeological, Evaluation, Other research	
SD-14549	NADB-R - 1134549; Voided - WILSONS80	WILSON, STACIE	2013	LETTER REPORT: ETS 24895- CULTURAL RESOURCES MONITORING REPORT FOR LAUREL STREET BRIDGE GAS LINE REMOVAL, UPTOWN AREA OF THE CITY OF SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA- IO 7011102	AECOM	Archaeological, Evaluation, Other research	37-016279, 37-028239
SD-14743	NADB-R - 1134743; Voided - TSUNOK18	TSUNODA, KOJI	2014	HISTORICAL RESOURCES COMPLIANCE REPORT FOR THE WASHINGTON STREET BRIDGE ACCESS CONTROL PROJECT SAN DIEGO COUNTY, CALIFORNIA	CALTRANS	Archaeological, Evaluation, Other research	
SD-14786	NADB-R - 1134786; Voided - LOFTUSS109	LOFTUS, SHANNON	2013	CULTURAL RESOURCE RECORDS SEARCH AND SITE SURVEY AT&T SITE ATTBAL10M3 SAN DIEGO DAS SOUTHWEST OF ZOO PLACE AND PARK BOULEVARD (2860 1/3 PARK BOULEVARD) SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA 92101	ACE ENVIRONMENTAL, LLC	Archaeological, Evaluation, Other research	37-018427
SD-15098	NADB-R - 1135098	KAROLINA A. CHMIEL	2014	LETTER REPORT: ETS 26861- CULTURAL RESOURCES MONITORING FOR ANODES INSTALLATION ACTIVITIES AT BALBOA PARK, SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA--IO7011101	ICF INTERNATIONAL	Archaeological, Field study, Monitoring, Other research	37-019072, 37-024540, 37-028239, 37-029836
SD-15116	NADB-R - 1135116	WAYNE H. BONNER and KATHLEEN A. CRAWFORD	2014	DIRECT APE HISTORIC ARCHITECTURAL ASSESSMENT FOR T-MOBILE WEST, LLC CANDIDATE SD06800A (SD800 5TH AVENUE FINANCIAL) 2550 5TH AVENUE, SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA	ENVIRONMENTAL ASSESSMENT SPECIALISTS, INC.	Architectural/Historical, Evaluation, Field study, Other research	

SD-15151	NADB-R - 1135151	DAVID BRUNZELL	2015	CULTURAL RESOURCES ASSESSMENT OF THE CROWN CASTLE/ VERIZON FIBER PUC PROJECT, SAN DIEGO, CALIFORNIA (BCR CONSULTING PROJECT NO. SYN1404)	BCR CONSULTING LLC	Archaeological, Evaluation, Field study, Other research	
SD-15513	NADB-R - 1135513	Brian F. Smith and David K. Grabski	2015	Cultural Resource Monitoring Report for the Water Group 945 Project, San Diego, California	Brian F. Smith and Associates	Archaeological, Management/planning, Monitoring	
SD-15609	NADB-R - 1135609	Wayne H. Bonner, Sarah A. Williams, and Kathleen A. Crawford	2014	CULTURAL RESOURCES RECORDS SEARCH AND SITE VISIT RESULTS FOR T-MOBILE WEST, LLC CANDIDATE SD06002A (SD002 SAN DIEGO ZOO) 2920 ZOO DRIVE, SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA		Archaeological, Evaluation, Field study	
SD-15610	NADB-R - 1135610	Wayne H. Bonner and Kathleen A. Crawford	2014	DIRECT APE HISTORIC ARCHITECTURAL ASSESSMENT FOR T-MOBILE WEST, LLC CANDIDATE SD06002A (SD002 SAN DIEGO ZOO) 2920 ZOO DRIVE, SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA	EAS	Archaeological, Evaluation	
SD-15635	NADB-R - 1135635	Wayne H. Bonner, Sarah A. Williams, and Kathleen A. Crawford	2014	CULTURAL RESOURCES RECORDS SEARCH AND SITE VISIT RESULTS FOR T-MOBILE WEST, LLC CANDIDATE SD06800A (SD800 5TH AVENUE FINANCIAL) 2550 5TH AVENUE, SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA	Environmental Assessment Specialists, Inc	Archaeological, Evaluation	
SD-16180	NADB-R - 1136180; Submitter - 452426	Brian F. Smith and Elena C. Goralogia	2015	CULTURAL RESOURCE MONITORING REPORT FOR THE PARK BOULEVARD MEDIAN IMPROVEMENTS PROJECT SAN DIEGO, CALIFORNIA	Brian F. Smith and Associates	Archaeological, Monitoring	
SD-16245	NADB-R - 1136245	Julie Roy	2015	LETTER REPORT: ETS 26086 - CULTURAL RESOURCES MONITORING REPORT FOR CALIFORNIA TOWER SEISMIC UPGRADE, BALBOA PARK - MUSEUM OF MAN, CITY OF SAN DIEGO, CALIFORNIA - IO 7011107	AECOM	Archaeological, Monitoring	37-028239
SD-16427	NADB-R - 1136427	MIKESELL, STEPHEN D.	1987	ARCHIE MOORE HOME, 3517 E STREET, SAN DIEGO, CA 92102	Caltrans	Architectural/Historical	
SD-16506	NADB-R - 1136506; Submitter - 434746	HERRMANN, MYRA	2016	HOUSE OF PACIFIC RELATIONS - NEW INTERNATIONAL COTTAGES	City of San Diego	Architectural/Historical	
SD-16802	NADB-R - 1136802		2016	UPTOWN COMMUNITY PLAN AREA DRAFT HISTORIC RESOURCES SURVEY REPORT	CITY OF SAN DIEGO PLANNING DEPARTMENT	Architectural/Historical	37-016203, 37-016204
SD-16833	NADB-R - 1136833; Submitter - 523694	SMITH, BRIAN F.	2016	HISTORICAL RESOURCE RESEARCH REPORT FOR 2001 FOURTH AVENUE SAN DIEGO, CALIFORNIA PROJECT NO. 523694	Brian F. Smith and Associates	Architectural/Historical	37-037094
SD-17233	NADB-R - 1137233; Submitter - BCR Project No. SYN1622	BRUNZELL, DAVID	2017	SAN DIEGO 129 PROJECT, SAN DIEGO COUNTY, CALIFORNIA (BCR CONSULTING PROJECT NO. SYN1622)	BCR Consulting LLC	Archaeological, Field study, Literature search	
SD-17236	NADB-R - 1137236; NADB-R - BCR Project No. SYN1616b	BRUNZELL, DAVID	2017	VZW 32ND AND COMMERCIAL PUC PROJECT, SAN DIEGO, CALIFORNIA (BCR CONSULTING PROJECT NO. SYN1616B)	BCR Consulting LLC	Archaeological, Field study, Literature search	
SD-17997	NADB-R - 1137997	KISTLER, ANNAMARIE and JAIME DESTEFANO	2017	PROPOSED SMALL CELL TELECOMMUNICATION FACILITY, THREE NODES LOCATED WITHIN 250 FEET OF A HISTORIC DISTRICT, MOBILITIE CALIFORNIA SMALL CELL PROJECT, SAN DIEGO, SAN DIEGO COUNTY, CALIFORNIA, ECA PROJECT #: T1774	ENVIRONMENTAL CORPORATION OF AMERICA	Architectural/Historical, Other research	
SD-18116	NADB-R - 1138116	WOLFE, TIM	2019	LETTER REPORT: ETS 38027 - CULTURAL RESOURCES MONITORING REPORT FOR PLAZA DE PANAMA PIPELINE REPLACEMENT, BALBOA PARK, CITY OF SAN DIEGO, CALIFORNIA - IO 7074262	AECOM	Archaeological, Monitoring	
SD-19514	NADB-R - 1139514	HERITAGE ARCHITECTURE & PLANNING	2020	BALBOA PARK CAROUSEL, 1889 ZOO PLACE, SAN DIEGO, CA 92101	HERITAGE ARCHITECTURE & PLANNING	Architectural/Historical, Other research	37-018426

ATTACHMENT C

C DPR 523 FORMS

State of California ◆ The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code
Other Listings
Review Code Reviewer Date

Page ___ **of** 2 ***Resource Name or #:** (Assigned by recorder) **House of Pacific Relations International Cottages Historic District**
P1. Other Identifier:

***P2. Location:** ☐ **Not for Publication** ☐ **Unrestricted**
***a. County** San Diego **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** Point Loma **Date** 1967 **T** 17S ; **R** 3W ; ☐ **of** ___ ☐ **of Sec** ___ ; SB **B.M.**
c. Address 2191 Pan American Rd W City San Diego Zip 92101
d. UTM: (Give more than one for large and/or linear resources) Zone 11S, 483740 mE/ , 3621247 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate) APN# 7602126600; Legal Description: PUBLIC LAND BALBOA PARK*CITY#746202(74)IN HOUSE OF PACIFIC RELATIONS&BLDG634

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries) The project site lies within the Balboa Park National Historic Landmark District, which includes the historic House of Pacific Relations International Cottages. The cottages were originally built for the 1935 California Pacific International Exposition. Initially, the cottage complex comprised 15 small, Spanish-vernacular-style structures, each representing a different nation. Currently, there are 20 historic buildings, all dating to the mid-20th century, which make up the proposed House of Pacific Relations International Cottages Historic District.

***P3b. Resource Attributes:** (List attributes and codes) HP6

***P4.Resources Present:** ☐ Building ☐ Structure ☐ Object ☐ Site ☒ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (view, date, accession #) Representative view of buildings and streetscape, August 2025

***P6. Date Constructed/Age and Source:** ☒ Historic ☐ Prehistoric ☐ Both
c. 1935

***P7. Owner and Address:**
House of Pacific Relations
2191 Pan American Rd W
San Diego, CA 92101

***P8. Recorded by:** (Name, affiliation, and address) Michael Kyne, WSP USA Inc, 3560 Hyland Ave, #100, Costa Mesa, CA 92626

***P9. Date Recorded:** September 8, 2025

***P10. Survey Type:** (Describe) Pedestrian/Desktop

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.") Cultural Resources Survey Report for the Balboa Park International Cottages Electrical Improvements Project (Task Order No. 25CW06), City of San Diego, San Diego County, California

***Attachments:** ☐NONE ☒Location Map ☐Continuation Sheet ☐Building, Structure, and Object Record
☐Archaeological Record ☒District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List):

 *NRHP Status Code

*Resource Name or # (Assigned by recorder)

D1. Historic Name: **House of Pacific Relations International Cottages Historic District** D2. Common Name: _____

***D3. Detailed Description** (Discuss overall coherence of the district, its setting, visual characteristics, and minor features. List all elements of district.):

The House of Pacific Relations International Cottages Historic District comprises 20 buildings, each dating to the mid-20th century. The buildings include the Houses of China, Colombia, Czechoslovakia, Denmark, England, Finland, France, Germany, Hungary, Ireland, Israel, Italy, Norway, Poland, Scotland, Sweden, Ukraine, and the United States, as well as the United Nations and Hall of Nations buildings.

***D4. Boundary Description** (Describe limits of district and attach map showing boundary and district elements.):

The district is bounded by the intersection of Pan American Rd W and Pan American Rd E to the east, Presidents Way to the west, Pan American Rd W to the north, and Pan American Rd E to the south.

***D5. Boundary Justification:**

The boundary is defined by the streets that provide access to the subject buildings, surrounding and encompassing the properties, buildings, and surrounding streetscape.

D6. Significance: Theme Expositions and World's Fairs/Entertainment & Recreation (1935-1936 California Pacific Internation Exposition); Ethnic Heritage/Immigration and Community Life; Architecture/Exposition-Era Vernacular Design

Area Entertainment/Recreation; Ethnic Heritage; Architecture; Community Planning & Development **Period of Significance** 1935-1936 (California Pacific International Exposition) **Applicable Criteria** NRHP A & C; CRHR 1 & 3

(Discuss district's importance in terms of its historical context as defined by theme, period of significance, and geographic scope. Also address the integrity of the district as a whole.)

The House of Pacific Relations International Cottages Historic District is significant under NRHP Criterion A/CRHR Criterion 1 in the theme of Expositions and World's Fairs/Entertainment and Recreation for its association with the 1935–1936 California Pacific International Exposition, which promoted international friendship and civic identity. The district is also significant under NRHP Criterion C/CRHR Criterion 3 in the themes of Ethnic Heritage and Architecture as a cohesive ensemble of small-scale exposition-era vernacular designs symbolizing San Diego's diverse immigrant communities. The period of significance is 1935–1936, and the cottages retain integrity of location, design, materials, workmanship, feeling, and association.

***D7. References** (Give full citations including the names and addresses of any informants, where possible.):
No informants were consulted.

***D8. Evaluator:** Michael Kyne **Date:** September 8, 2025
Affiliation and Address:
WSP USA Inc, 3560 Hyland Ave, #100, Costa Mesa, CA 92626

State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI#
Trinomial

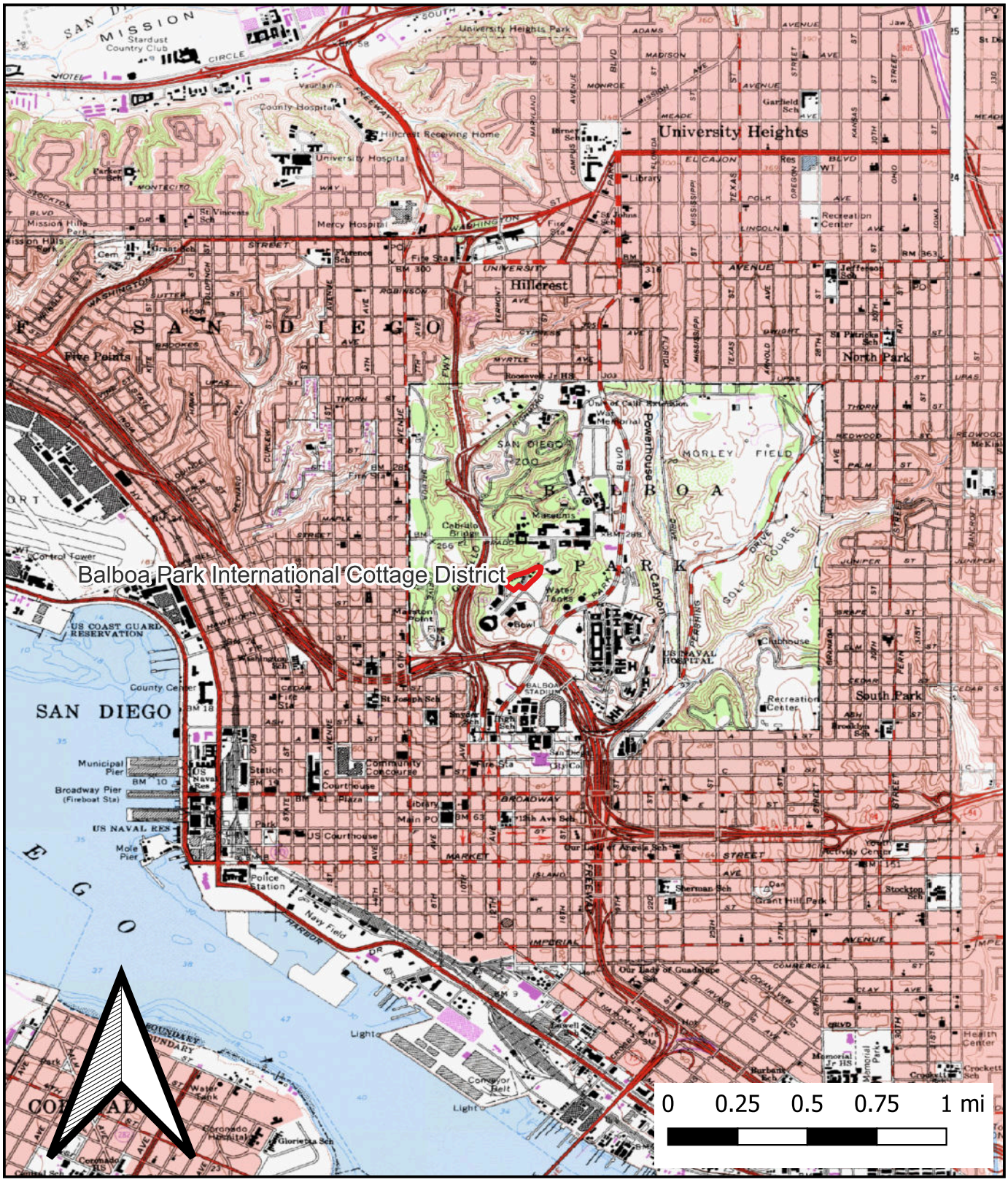
Page 3 of 3

*Resource Name or # (Assigned by recorder) House of Pacific Relations District

*Map Name: Point Loma 7.5'

*Scale: 1:24000

*Date of map: 1967



DPR 523J (9/2013)

* Required information

ATTACHMENT D

D PERSONAL QUALIFICATIONS

MICHAEL KYNE

Lead Architectural Historian

Years total

24+

Education

MA, Historic Preservation, Savannah College of Art & Design, Savannah, GA

BA, Public History, Shepherd University, Shepherdstown, WV

CAREER SUMMARY

Michael Kyne is an architectural historian with a Master of Arts Degree in Historic Preservation from SCAD's School of Architecture and over 24 years of professional experience. Michael joined WSP in November 2023 and has worked on projects in a number of states, including California, Nevada, Arizona, Hawaii, Washington, and Michigan. His roles have included CEQA and Section 106 compliance, historic property survey, and preparation of historic context statements. Prior to joining WSP, Michael spent nearly a decade as Cultural Resources Planner III with the Montgomery County (Maryland) Planning Department's Historic Preservation Section, in what is widely recognized one of the nation's leading historic preservation planning programs. In this position, Michael managed and guided a record number of Historic Area Work Permit applications from intake to final approval as the senior regulatory staff member. Duties included design consultation, preparation of written and oral reports, presentation of recommendations to the County's Planning Board and Historic Preservation Commission at bi-weekly public meetings, Section 106 compliance, and grant fund management. Michael also administered the Historic Preservation Tax Credit program, where he was responsible for application review, training and supervision of interns and entry-level planners, and public presentations throughout the County to promote the tax credit program. Other professional experience includes Section 106 review and compliance as Structural Historian with the West Virginia State Historic Preservation Office, non-profit/museum management as Executive Director and Curator of Collections with the Washington County (Maryland) Historical Society, and several years of internship experience with the Chesapeake & Ohio National Historical Park.

PROFESSIONAL EXPERIENCE

- **City of Inglewood, City of Inglewood Seismic Retrofit – Police Station, Inglewood, CA (on-going)** – Leading survey of architectural resources within project area. Conducting historical research, field survey and documentation, and evaluation of significance and effect for identified resources. Providing technical support during Section 106 consultation process with State Historic Preservation Office (SHPO). Working with Federal Emergency Management Agency (FEMA) and the City to identify and address effects, per 2019 Programmatic Agreement.
- **City of Hawthorne, Seismic Retrofitting Four City Buildings, Hawthorne, CA (on-going)** – Leading survey of architectural resources within project areas. Conducting historical research, field survey and documentation, and evaluation of significance and effect for identified resources. Providing technical support during Section 106 consultation process with State Historic Preservation Office (SHPO). Working with Federal Emergency Management Agency (FEMA) and the City to identify and address effects, per 2019 Programmatic Agreement.
- **Hawaii Department of Transportation, Pali Highway Assessment and Documentation, Honolulu County, HI (on-going)** – Leading research and survey efforts to identify and document Pali Highway historic resources. Producing National Register of Historic Places Nomination for Pali Highway to comply with Memorandum of Agreement (MOA) stipulations.
- **City of Santa Fe, City of Santa Fe General Plan Update, Santa Fe, NM (on-going) –** Providing technical expertise regarding built environment resources and municipal planning. Updating chapters and sections of General Plan relating to history, historic preservation, and built environment.
- **Riverside County, Chuckwalla Valley Road Bridge Replacement Project, Riverside County, CA (on-going)** - Providing subject matter expertise for Cultural

Resources Section of project's Environmental Impact Report (EIR), Environmental Assessment (EA), and Historic American Engineering Record (HAER) documentation.

- **City of Flagstaff, Downtown Mile & Milton Underpass Project, Flagstaff, AZ (April 2025)** - Lead survey of architectural resources within project areas. Conducted historical research, survey and documentation. Evaluated significance and effect for identified resources. Provided technical support during Section 106 consultation process with State Historic Preservation Office (SHPO).
- **NV Energy, Buckeye 1277 Line Relocation, Douglas County, NV (March 2025)** - Conducted historical research and survey to identify built environment resources. Produced historic property inventory forms and cultural resources report with evaluation of significance and effect for properties within project area.
- **City of Bellevue, Bellevue Grand Connection: I-405 Crossing—Downtown to Eastrail Project, Bellevue, WA (January 2025) –** Conducted historical research and survey to identify built environment resources. Provided Cultural Resource Assessment, evaluating significance and effect for properties within project area.
- **Hawaii Department of Transportation, State Historic Bridge Inventory Evaluation, Statewide, HI (2024)** – Assisted with inventory of State's historic bridges. Reviewed and updated historic property inventory forms and associated report.
- **Michigan Department of Transportation, Marshall Modernization Project, Marshall, MI (2024)** - Assisted with inventory of architectural resources. Provided QA/QC review and revised historic property inventory forms and associated report.

MICHAEL AMORELLI

Archaeologist

Years with the firm

7 (2018)

Years total

9 (2016)

Professional registrations

CA BLM permit #CA-25-06, Field Director

Registered Professional Archaeologist, RPA Registrant ID# 6284

NV BLM permit #N-66443, Principal Investigator: Prehistoric – Carson City & Southern Nevada Districts; Historic - Statewide

Trainings

Archaeological Lab Analysis and Curation, UC Riverside 2016

Forensic Anthropology Lab, UC Riverside 2016

Excavations of Human Remains, Sanisera Archaeological Institute, 2016

Paleopathology Graduate Seminar, UC Riverside, 2017

Paleontology Cross Training for Archaeologists, Cogstone Resource Management, 2019

Professional associations

American Anthropological Association

American Cultural Resources Association

CAREER SUMMARY

Michael Amorelli is a cultural resource management archaeologist with nine years of professional experience. He has worked throughout California and Nevada, primarily in Riverside County, and is experienced in archival research, field survey, data recovery, construction monitoring, lab work, curation and reporting. Mr. Amorelli began his career as an information officer at the Eastern Information Center (EIC) of the California Historical Resource Information System (CHRIS), California's SHPO inventory, located at the University of California, Riverside. During his time at the EIC, he conducted archaeological records searches for federal, state and local agencies, as well as for consultants working on behalf of private sector clients. Mr. Amorelli was also responsible for the curation and maintenance of archaeological site records, cultural resource management reports, geospatial data and relational database that comprised the CHRIS inventory for Riverside, Inyo and Mono Counties.

Mr. Amorelli has led field and reporting efforts for all phases of projects ranging from small private developments to highway and rail infrastructure to large-scale renewable energy on federal land leases. Mr. Amorelli recently completed a Master of Arts in Cultural Heritage Management and a Certificate in Digital Curation, through the Zanvyl Krieger School of Arts and Sciences' Advanced Academic Programs at Johns Hopkins University with a research focus in digital site recordation methods and digital curation, with a strong interest in terrestrial laser scanning, Total Station surveying, UAV LiDAR and multi-spectral imaging, HBIM, GIS and photogrammetric applications for preserving tangible cultural heritage. Mr. Amorelli's graduate research specifically focused on the role of private sector CRM firms in the Native American Graves Protection and Repatriation Act (NAGPRA) process following the 2024 NAGPRA Final Rule and the security of confidential archaeological records in the open-source Arches heritage management database ecosystem.

EDUCATION

M.A. Cultural Heritage Management, Johns Hopkins University	2025
Post-Baccalaureate Certificate Digital Curation, Johns Hopkins University	2025
B.S. Anthropology, University of California, Riverside	2018
B.A. Classical Studies, University of California, Riverside	2018
A.A. Social and Behavioral Sciences, Mount San Antonio College	2015
A.A. Humanities, Mount San Antonio College	2015

PROFESSIONAL EXPERIENCE

— **GEM A-CAES, LLC, Willow Rock Energy Storage Center Project, Rosamond, Kern County, California,** May 2023-Ongoing: Mr. Amorelli led a Class III inventory for over 60 miles of transmission routes and alternatives, and over 600 acres of block parcels, under California Energy Commission (CEC) guidelines, ahead of the construction of an advanced compressed air energy storage system power plant. Mr. Amorelli also led testing efforts of

Archaeological Institute of America

Paleopathology Association

Society for California Archaeology

Society of Architectural Historians

Languages

English

Spanish

Italian

Sicilian

Japanese

Latin (Classical)

Greek (Ancient - Homeric, Ionic and Attic)

Office location

Riverside, CA

eleven archaeological sites associated with the project to support evaluations for California Register of Historical Resources and National Register of Historic Places eligibility. Mr. Amorelli is lead author for project reporting.

— **Bureau of Land Management, Mojave Trails National Monument, San Bernardino and Riverside Counties, California,** October 2023 – February 2025: Mr. Amorelli is the lead project archaeologist for a Class I inventory of the 1.6M acre Mojave Trails National Monument, managed by the Bureau of Land Management, to support the development of a management plan for the Monument. The inventory includes extensive records searches at the South Central Coastal Information Center (SCCIC) and South Coastal Information Center (SCIC) of the California Historical Resources Information System (CHRIS), review of records held by the BLM and extensive contextual research to identify areas of high archaeological sensitivity.

— **AES Twin Palms Solar Project, Riverside County, California,** July 2024 – Ongoing: Mr. Amorelli is the lead project archaeologist for due diligence effort during the early planning stages of a proposed 2,700 acre photovoltaic energy project in eastern Riverside County, California, near the city of Blythe.

— **Coachella Valley Water District Non-Potable Water Projects, Fiscal Year 2024-2025, Riverside County, California,** September 2024 – Ongoing: Mr. Amorelli is the lead project archaeologist for a cultural resources assessment of proposed expansion of non-potable irrigation water distribution extensions in the cities of Indio, Rancho Mirage and Palm Desert, Riverside County, California. Mr. Amorelli conducted field surveys, records searches and is lead author for project reporting.

— **San Bernardino Fire Station #227, San Bernardino, San Bernardino County, California,** September 2024: Mr. Amorelli served as lead project archaeologist for cultural resource investigations ahead of construction of a proposed fire station in the city of San Bernardino, San Bernardino County, California. Mr. Amorelli conducted fieldwork, a records search and served as lead author on the project report.

— **City of San Diego Clairemont Mesa Storm Drain Extension, San Diego, San Diego County, California,** June 2024 – October 2024: Mr. Amorelli served as lead project archaeologist for cultural resources investigations in support of a CEQA Initial Study for the replacement of storm drain and sewer infrastructure in the Clairemont neighborhood of the City of San Diego. Mr. Amorelli conducted records searches and background research, oversaw fieldwork efforts, and served as lead author on project reporting.

— **City of San Diego Golden Hill & South Park Storm Drain Extension, San Diego, San Diego County, California,** April 2024 – October 2024: Mr. Amorelli served as lead project archaeologist for cultural resources investigations in support of a CEQA Initial Study for the replacement of storm drain and sewer infrastructure in the Golden Hill & South Park neighborhoods of the City of San Diego. Mr. Amorelli conducted records searches and background research, oversaw fieldwork efforts, and served as lead author on project reporting.

— **City of San Diego Laurelridge Storm Drain Extension, San Diego, San Diego County, California,** April 2024 – October 2024: Mr. Amorelli served as lead project archaeologist for cultural resources investigations in support of a CEQA Initial Study for the replacement of storm drain and sewer infrastructure in the Clairemont neighborhood of the City of San

Diego. Mr. Amorelli conducted records searches and background research, oversaw fieldwork efforts, and served as lead author on project reporting.

— **MBK Rental Living, Vintage Farms Project, Murrieta, Riverside County, California,** December 2023 – June 2024: Mr. Amorelli is the project archaeologist for a 30-acre residential development in the city of Murrieta that includes the construction of 483 mixed apartment and condominium attached dwelling units. Mr. Amorelli prepared the Cultural Resource Monitoring Plan (CRMP) and engaged the Pechanga Band of Indians and City of Murrieta in project planning discussions. Mr. Amorelli was lead author for project reporting.

— **Sweetwater Authority, Sweetwater Reservoir Floating Photovoltaic Project, Unincorporated San Diego County, California.** March 2024 – June 2024: Mr. Amorelli was the Project Archaeologist for a cultural resources assessment of the Sweetwater Reservoir, prior to the development of a 9.4 acre floating solar array on the reservoir's surface. Mr. Amorelli conducted background research that included a cultural resources records search at the South Coastal Information Center (SCIC), a literature review, the development of historical context and review of historical maps of the Project Area and surrounding area. Mr. Amorelli was lead author of the technical study and supervised coordination with culturally-affiliated California Native American tribes.

— **University of California, San Diego, Triton Pavilion Project, La Jolla, San Diego County, California,** August 2023 – May 2024: Mr. Amorelli served as the Project Paleontologist during ground disturbing activities associated with the construction of Triton Pavillion at UC San Diego. Project responsibilities included coordination with construction personnel, oversight of paleontological monitors, development of paleontological resources sensitivity training for construction personnel and evaluation of potential paleontological discoveries.

— **International-Matex Tank Terminals, IMTT Richmond Terminal Project, Richmond, Contra Costa County, California.** February 2023 – March 2024: Mr. Amorelli is the project archaeologist for a tank replacement at International-Matex Tank Terminals' (IMTT) Richmond, California Terminal. Mr. Amorelli conducted extensive background research that included reviews of historical cartography, shipwreck databases and specific land use and development history, and also evaluated indirect impacts to nearby National Register listed historic properties for both CEQA and Section 106 evaluation.

— **Kinder Morgan, Yuba County HDD Drill, Marysville, Yuba County California,** September 2023: Mr. Amorelli conducted a records search at the Central California Information Center (CCaIC) and a survey of six-acre project area, ahead of a proposed directional boring for a petroleum pipeline extension.

— **California Regional Water Quality Control Board Los Angeles Region, Former Berk Oil and Pacific Metal Craft Site, Bell Gardens, Los Angeles County, California,** October 2023 – January 2024: Mr. Amorelli led a cultural resources investigation under CEQA for the former Berk Oil and Pacific Metal Craft Site in the City of Bell Gardens, ahead of planned remediation and redevelopment of the site. The investigation included a cultural resources records search, pedestrian survey and reporting for the 4.2 acre property.

— **Caltrans, French Valley Parkway Improvements, Cities of Temecula and Murrieta, Riverside County, California,** July 2023 – January 2024: Mr. Amorelli served as the project

archaeologist and paleontologist for the expansion of northbound Interstate 15, between Winchester Road and Murrieta Hot Springs Road, in the cities of Temecula and Murrieta. Responsibilities included coordination with construction and engineering personnel and the Pechanga Band of Indians, as well as monitoring of ground disturbance associated with the project and reporting.

— **Inyo National Forest, Coyote Flats Off Highway Vehicle (OHV) Trail Restoration, Inyo County, California,** July 2023**:** Mr. Amorelli supported cultural resource efforts for the Trail Restoration Project by conducting a large Class I Inventory of approximately 45 linear miles of trails and the surrounding vicinity on Inyo National Forest property.

— **University of California, San Diego, Viterbi Family Vision Research Center, La Jolla, San Diego County, California,** February 2023 – May 2023: Mr. Amorelli was the Project Archaeologist for cultural resources monitoring efforts during ground disturbing activities associated with the construction of the Viterbi Family Vision Research Center, part of the UC San Diego Health's Shiley Eye Institute. Project responsibilities included the preparation of a campus planning approved cultural resources monitoring plan (CRMP), cultural resource sensitivity training of all construction personnel, coordination with Native American Monitors and on-site monitoring of all ground disturbing activities.

— **Federal Emergency Management Administration (FEMA), Region IX Hazard Mitigation Technical Assistance Program (HMTAP), California and Nevada,** 2021-Ongoing: Mr. Amorelli is a historic preservation analyst and archaeologist for ongoing EHP support on FEMA's Region IX HMTAP contract. Mr. Amorelli is responsible for the evaluation of application information provided by Hazard Mitigation Grant Program subapplicants during the environmental review process. Further, Mr. Amorelli conducts records searches, tribal consultation coordination and fieldwork for grantee projects requiring archaeological review, pursuant to Section 106 of the National Historic Preservation Act.

— **United States Coast Guard, Station Humboldt Bay Boat Basin, Humboldt County, CA,** June 2022-January 2023: Mr. Amorelli served as the project archaeologist and principal investigator for a cultural resources assessment as part of the permitting process for maintenance dredging for the Station's boat basin. The investigation included a cultural resources records search at the Northwest Information Center (NWIC) at Sonoma State University, review of the data, extensive research into the cultural history of the Wiyot people in the Humboldt Bay region, as well as earlier archaeological evidence and later Euro-American history in the region. The study also included a site visit that involved the assessment and evaluation of both the National Register of Historic Places listed Station Humboldt and other built environment features within the USCG landholding.

— **China Lake Naval Weapons Air Station, Ridgecrest, Kern County, CA October 2018; September 2021 – Ongoing:** Mr. Amorelli has conducted records searches, surveying, monitoring, research and reporting for several soil testing and remediation projects commissioned by China Lake's Environmental Management Division (EMD). Project areas have included the main site, Public Works, Armitage Field, Baker Range, Sierra Gun Club, SNORT, Middle George Range and Weapons Survivability Lab.

— **Spectrum Services, On-Call Projects, Los Angeles, Riverside and San Bernardino Counties, CA,** October 2018 – July 2022: Mr. Amorelli served as the project archaeologist for planning investigations for 21 wireless telecommunications facilities across Southern

California. Mr. Amorelli conducted extensive background and archival research, field assessments, tribal coordination and reporting.

— **Jurupa Grade Separation Project, Jurupa Valley, Riverside County, CA,** August 2021 – Ongoing. Mr. Amorelli is the project archaeologist and paleontologist for the Jurupa Grade Separation project, an at-grade rail separation located at the intersection of Jurupa Road and Van Buren Boulevard in the City of Jurupa Valley. Mr. Amorelli conducts as needed field assessments and monitoring of excavation related to the project and coordinates with other technical specialists, including biologists and hazardous materials experts.

— **Cuyama Farms Project, Cuyama & New Cuyama, Santa Barbara County, CA,** February 2020: Mr. Amorelli conducted an intensive cultural resources pedestrian survey of 180-acres of agricultural land across three separate parcels for future cannabis cultivation.

— **Quail Run Apartments, Riverside, Riverside County, CA, November 2019 – May 2020:** Mr. Amorelli coordinated reburial efforts for cultural resources recovered during the monitoring of construction of the Sonata at Canyon Crest Apartments. Tasks included consultation and schedule coordination with Morongo, Pechanga and Soboba cultural departments, custodial curation of the collection and on-site meetings with THPOs and developer.

— **WellQuest Senior Living, Menifee, Riverside County, CA,** October 2019 – January 2020: Mr. Amorelli served as the archaeological and paleontological resources monitor for the grading and trenching of a 4.81-acre site in the City of Menifee for the construction of a luxury senior assisted living facility. Tasks included the monitoring of all ground disturbance and preparation of sections for the final paleontological monitoring report.

— **Pilot Flying J Travel Center, Jurupa Valley, Riverside County, CA**, February 2019 – November 2019: Mr. Amorelli served as paleontological monitor for the grading and trenching of 14 acres of former dairy land for the construction of a Flying J Travel Center in Jurupa Valley, California. Tasks included monitoring of ground disturbance within the parcel, as well as trenching for offsite utility improvements. Mr. Amorelli also coordinated schedules with Native American monitors for tribal cultural resource monitoring and assisted in the evaluations of potential cultural resources.

— **PSEP Line 2000 Chino Hills, Orange County, California, CA, August 2019:** Mr. Amorelli conducted a ground surface survey for historical resources within the Chino Hills State Park for maintenance associated with a high-pressure natural gas line managed by SoCalGas, a Sempra Energy Utility. Tasks included archival background research, an intensive surface survey and preparation of sections of the final report.

— **PSEP Line 2001, Whitewater, Riverside County, CA, March 2019:** Mr. Amorelli conducted archaeological monitoring during the excavation of sections of a high-pressure natural gas transmission line managed by SoCalGas, a Sempra Energy Utility. Tasks included monitoring excavation and coordinating archaeological sensitivity areas with construction personnel, engineering staff, biologists and Agua Caliente Band of Cahuilla Indians monitors.

— **Rancho Mission Viejo Riding Park, San Juan Capistrano, Orange County, CA, February 2019:** Mr. Amorelli conducted an intensive pedestrian cultural resources survey of the portions of the San Juan Creek Bed, ahead of U.S. Army Corps of Engineers restoration

work, as well as associated drainage areas within the adjacent Rancho Mission Viejo Equestrian Riding Park, in the City of San Juan Capistrano. Tasks included archival research & survey and assisting project senior archaeologist with Native American consultations.

— **AlAbbasi Compound Project, Riverside, Riverside County, CA, December 2018 – March 2019:** Mr. Amorelli conducted archaeological excavation and archaeological construction monitoring for a 13- acre residential development. Tasks included testing and data recovery of soils surrounding a bedrock milling feature, monitoring the removal and relocation of the feature and construction excavation of soils during the grading phase to ensure identification of any previously unknown archaeological resources. Mr. Amorelli also prepared sections of the final monitoring report.

— **I-15/Limonite Interchange Project, Eastvale, Riverside County, CA,** October 2018 – May 2019: Mr. Amorelli served as the paleontology monitor for ground disturbance associated with the I-15/Limonite Interchange Improvement Project.

PREVIOUS EXPERIENCE

Before joining WSP as full-time staff, Michael's experience included:

— **Palen (Maverick) Solar Project, Desert Center, Riverside County, CA, March 2020 – April 2021:** Mr. Amorelli served as a cultural resources monitor during the grading and excavation of a 3,900-acre solar field on Bureau of Land Management (BLM) lease land in Desert Center, California. Tasks included monitoring ground disturbance in a variety of alluvial and aeolian deposits, the recordation of several newly discovered artifacts associated with General George S. Patton's 1942 Desert Training Center exercises and being crew chief of a monitoring team during subcontracted variance grading in areas of high geoarchaeological sensitivity. Mr. Amorelli also conducted testing and data recovery on a newly discovered lithic site and was tasked as on-site safety officer for the cultural resources team and with substitute field director duties when regular field director conducted off-site damage assessments for BLM in areas without cellular coverage.

— **Desert Quartzite Solar Project, Blythe, Riverside County, CA, December 2020:** Mr. Amorelli conducted cultural resources monitoring during geotechnical investigations of a proposed 4,000-acre solar field on BLM lease land, near Blythe, CA.

— **Arica Solar Project, Desert Center, Riverside County, CA, May 2020 – June 2020:** Mr. Amorelli served as part of a survey crew for a proposed 2,000-acre solar field on BLM lease land in Desert Center, California. Tasks included intensive pedestrian survey, recordation of newly discovered archaeological and historical resources and updating site records for previously discovered resources.

— **Victory Pass Solar Project, Desert Center, Riverside County, CA, May 2020 – June 2020:** Mr. Amorelli served as part of a survey crew for a proposed 1,800-acre solar field on BLM lease land in Desert Center, California. Tasks included intensive pedestrian survey, recordation of newly discovered archaeological and historical resources and updating site records for previously discovered resources.

— **Eastern Information Center, Riverside, Riverside County, CA, July 2016 – September 2018:** Mr. Amorelli began his career in cultural resource management and historic preservation as a student employee at the Eastern Information Center (EIC), which is one of

nine archaeological and historic resource information centers throughout the State of California. The EIC is part of the California Historical Resource Information System (CHRIS), a subsidiary of the California Office of Historic Preservation (OHP). Mr. Amorelli was originally tasked with processing new site records and cultural resource management reports into the EIC's system and conducting records searches, but he very soon took on greater administrative and quality control tasks. Mr. Amorelli scheduled and assisted in managing staff, scheduled appointments with outside consultants, assisted in the administration of the CHRIS Consultant List and processed client invoices. During his time at the EIC, Mr. Amorelli conducted quality control reviews of some of the busiest geographical areas within the EIC's records, eliminating hundreds of redundant site records, clearing up the most congested maps, making many buried site record and report shapes visible to consultants conducting records searches. Mr. Amorelli was also regularly enlisted to assist UCR Anthropology administration and faculty in collections investigations pursuant to the Native American Graves Protection and Repatriation Act (NAGPRA), as well as maintenance activities for the department that fell outside of the scope of the UCR Facilities or IT departments.

APPENDIX

J CAP CONSISTENCY MEMO

THE CITY OF SAN DIEGO

M E M O R A N D U M

DATE: February 23, 2026

SUBJECT: Climate Action Plan (CAP) Memo for Balboa Park International Cottages Electrical Utility Service Upgrades Study Project (Project #24000)

Introduction

The Balboa Park International Cottages Electrical Utility Service Upgrades Study (Project) would provide an electric utility assessment of the interior lighting to provide the necessary power upgrades for 19 (nineteen) international cottages at Balboa Park. These 20th-century cottages include China, Colombia, Czechoslovakia, Denmark, England, Finland, France, Germany, Hungary, Ireland, Israel, Italy, Norway, Poland, Scotland, Sweden, Ukraine, the United States, the United Nations, and the Hall of Nations. Please note that France and Colombia are combined in a single cottage building, bringing the total to 19 cottages.

The Project would evaluate the existing electrical and gas systems as well as the current energy demands. The Project would use the baseline conditions of the cottages to outline recommended improvements needed to upgrade the electrical system and convert the gas equipment to electric to meet current codes. The Project would also identify service upgrades to support temporary power for seasonal attractions, potential utility conflicts, and cost estimates for design and construction. The study will be modeled after other cottages that were upgraded in 2017, including Chamorros (Guam), India, and Korea.

This memo was prepared to assess the Project for consistency with the City of San Diego's (City) Climate Action Plan (CAP), which was updated in August 2022, and is a qualified plan for the reduction of GHG emissions for use in cumulative impact analysis pertaining to projects under CEQA Guidelines Section 15183.5. Pursuant to CEQA Guidelines Sections 15064(h)(3), 15130(d), and 15183(b), a project's incremental contribution to a cumulative GHG emissions effect may be determined not to be cumulatively considerable if it complies with the requirements of the CAP. The CAP includes six strategies developed to reduce citywide GHG emissions and achieve the GHG reduction targets identified in the CAP. The Project's consistency with these strategies is discussed below.

Strategy 1: Decarbonization of the Built Environment

As described in the CAP, GHG emissions from buildings are second only to transportation when accounting for the electricity and natural gas consumed in our homes and businesses. Burning natural gas accounts for 20 percent of local GHG emissions through its use to heat our homes, offices, and water.

The Project evaluates upgrading the electrical system for 19 international cottages at Balboa Park to meet current electrical codes. These improvements would comply with the City's Zero Emissions Municipal Buildings & Operations Policy (ZEBOP) requirements by replacing any

existing gas-powered kitchen equipment and water heaters with electric systems. Additionally, all lighting would be upgraded to energy-efficient LED fixtures, with motion sensors and dimming options. The conversion from gas to electric and reducing energy consumption by switching to LED fixtures would be consistent with the strategies in the City's Municipal Energy Strategy & Implementation Plan. By reducing the GHG emissions and complying with the City's ZEBOP and Municipal Energy Strategy & Implementation Plan, the Project would be consistent with Strategy 1, Decarbonization of the Built Environment.

Strategy 2: Access to Clean and Renewable Energy

Strategy 2 discusses how transitioning energy systems away from fossil fuels and toward clean and renewable sources is key to reducing the City's GHG emissions and supporting a more sustainable future.

As described above, the Project evaluates upgrading the electrical systems for 19 international cottages at Balboa Park. The Project does not include any features that would change the source of any energy supplied, increase operational energy demand, or interfere with the City's transition to renewable energy sources. Therefore, the Project would not conflict with the applicable CAP goals and strategies identified in Strategy 2.

Strategy 3: Mobility and Land Use

Strategy 3 focuses on changing the City's approach to land use planning and infrastructure to provide San Diegans with viable travel choices and incentivizing modes that are healthier and more efficient, thereby reducing GHG emissions from vehicles.

The Project proposes to upgrade the electrical system for 19 existing international cottages; therefore, no changes to the land use or zoning designations would occur. Furthermore, the Project would not conflict with any circulation programs, plans, ordinances, or policies. The temporary nature of construction would not result in a permanent change to the level of service of the surrounding circulation system and would not impact public transit facilities. Thus, the Project would not conflict with the applicable CAP goals and strategies identified in Strategy 3.

Strategy 4: Circular Economy and Clean Communities

The focus of Strategy 4 is to achieve zero waste by recycling, composting, reducing, and reusing all waste and materials to eliminate the discharge to land, water, or air.

It is recommended for the construction of the Project to implement measures EP-SW-1 (Waste Management Plan), EP-SW-2 (Reusable Materials), EP-SW-3 (Suitable Reuse), EP-SW-4 (Green Waste), EP-SW-6 (Material Diversion), EP-SW-7 (Landfill Notification), and EP-SW-8 (Composting) as found in the Appendix C of the City of San Diego's Water Pollution Control Plan. These measures would ensure construction waste is diverted from landfills to the greatest extent practicable. Additionally, these measures would ensure compliance with the diversion requirements specified in Section 5-14, Construction and Demolition Waste Management, of the City's Whitebook, and Municipal Code §§66.0601–66.0610, which pertains to the City's Construction and Demolition Debris Diversion Deposit Program. Therefore, the Project would not conflict with the applicable CAP goals and strategies identified in Strategy 4.

Strategy 5: Resilient Infrastructure and Healthy Ecosystems

Strategy 5 focuses on actions related to the natural and built environments to better prepare San Diego for the impacts of climate change and its negative effects. The CAP identifies an action related to advancing the undergrounding of utilities to provide a means to reduce energy use, securely and efficiently site critical infrastructure, prevent and reverse degradation of the

urban environment, and enhance quality of life.

Several utility transformers currently support the cottages. One of the existing transformers serving as the primary power source for 15 of the cottages has exceeded its expected service life. Due to its age and condition, the Project proposes to replace it with a new SDGE transformer. Additionally, the Project proposes new underground electrical distribution lines running from four newly proposed 225 kVA utility transformers. Each cottage would be provided with a new service, entrance feeder line, and a dedicated utility meter. The upgrading and undergrounding of the electrical components would be consistent with the CAP by advancing underground utilities and securely siting critical infrastructure.

The proposed Project is also intended to resolve potentially hazardous conditions during the annual December Nights event. The annual event requires significant electricity supplies, where vendors use multiple extension cords on the same circuit as the cottages. Cottages turn off appliances to avoid tripping breakers. The Project proposes the installation of an additional 50A camlock power connections, which will help to prevent fire hazards and thereby the potential degradation of the urban environment. Having secure power supplies during these events would also enhance the quality of life of vendors and the public.

Other proposed improvements, like upgraded site lighting that matches the historic character of the cottages, would improve the quality of life of those visiting by improving the visibility and safety along public walkways while preventing the degradation of the urban environment. For the reasons stated above, the Project would not conflict with the applicable CAP goals and strategies identified in Strategy 5.

Strategy 6: Emerging Climate Actions

Strategy 6 of the City's 2022 CAP addresses those GHG emissions that will remain after all currently identified measures and actions have been achieved, which account for roughly 20% of total GHG emissions by 2035. To succeed in the City's overall goal, the City must continue to identify additional actions, pursue technological innovation, expand partnerships, and support research that reduces GHG emissions in all sectors. While Strategy 6 is not directly applicable to the Project, the Project does not include any features which would conflict with the City's actions to implement Strategy 6.

Conclusion

The Project is consistent with each of the CAP's strategies and would not conflict with the City's CAP or another applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions, and impacts would be less than significant.

APPENDIX

K AS-BUILTS

DS-4218 (5-96)

HOUSE OF PACIFIC RELATIONS
INTERNATIONAL COTTAGES
BALBOA PARK SAN DIEGO, CA 92101

APPLICABLE CODES

2013 CALIFORNIA BUILDING CODE, TITLE 24, CBC PART 2 WITH SUPPLEMENTS
2013 CALIFORNIA MECHANICAL CODE
2013 CALIFORNIA PLUMBING CODE
2013 CALIFORNIA ELECTRICAL CODE BASED ON THE 2011 NATIONAL ELECTRICAL CODE
2013 CALIFORNIA FIRE CODE
2013 TITLE 24 ENERGY STANDARDS

BUILDING DATA

COTTAGE 1/2

PROPOSED USE:	SOCIAL GATHERING SPACE
BUILDING AREA:	1180 S.F. + 1220 S.F. BASEMENT
NUMBER OF STORIES:	1
CONSTRUCTION TYPE:	VB
OCCUPANCY:	B AND S (BASEMENT)
OCCUPANT LOAD:	COTTAGE 1 - 24 OCCUPANTS TOTAL COTTAGE 2 - 25 OCCUPANTS TOTAL

COTTAGE 3/4

PROPOSED USE:	SOCIAL GATHERING SPACE
BUILDING AREA:	1185 S.F. + 1185 S.F. BASEMENT
NUMBER OF STORIES:	1
CONSTRUCTION TYPE:	VB
OCCUPANCY:	B AND S (BASEMENT)
OCCUPANT LOAD:	COTTAGE 3 - 25 OCCUPANTS TOTAL COTTAGE 4 - 25 OCCUPANTS TOTAL

COTTAGE 5/6

PROPOSED USE:	SOCIAL GATHERING SPACE
BUILDING AREA:	1190 S.F. + 1250 S.F. BASEMENT
NUMBER OF STORIES:	1
CONSTRUCTION TYPE:	VB
OCCUPANCY:	B AND S (BASEMENT)
OCCUPANT LOAD:	COTTAGE 5 - 25 OCCUPANTS TOTAL COTTAGE 6 - 25 OCCUPANTS TOTAL

COTTAGE 7/8

PROPOSED USE:	SOCIAL GATHERING SPACE
BUILDING AREA:	1180 S.F. + 1220 S.F. BASEMENT
NUMBER OF STORIES:	1
CONSTRUCTION TYPE:	VB
OCCUPANCY:	B AND S (BASEMENT)
OCCUPANT LOAD:	COTTAGE 7 - 25 OCCUPANTS TOTAL 23 CCCUPANTS AT FIRST FLOOR (15 O.L.F.) 2 OCCUPANTS AT BASEMENT STORAGE (300 O.L.F.) COTTAGE 8 - 24 OCCUPANTS TOTAL 22 OCCUPANTS AT FIRST FLOOR (15 O.L.F.) 2 OCCUPANTS AT BASEMENT STORAGE (300 O.L.F.)

COTTAGE 9

PROPOSED USE:	SOCIAL GATHERING SPACE
BUILDING AREA:	630 S.F. + 600 S.F. BASEMENT
NUMBER OF STORIES:	1
CONSTRUCTION TYPE:	VB
OCCUPANCY:	B AND S (BASEMENT)
OCCUPANT LOAD:	COTTAGE 9 - 24 OCCUPANTS TOTAL 22 OCCUPANTS AT FIRST FLOOR (15 O.L.F.) 2 OCCUPANTS AT BASEMENT STORAGE (300 O.L.F.)

DEFERRED APPROVALS

IT IS UNDERSTOOD THAT PLANS FOR THE PROJECT HAVE, AT THIS TIME, BEEN REVIEWED FOR COMPLIANCE WITH ALL APPLICABLE STATE AND CITY REGULATIONS, AND THE THE PROJECT AS A WHOLE HAS BEEN APPROVED BY THE CITY WITH THE EXCEPTION OF THE DEFERRED ITEMS LISTED:

1. PREMANUFACTURED METAL STAIR
2. ROOF TRUSSES

WE UNDERSTAND THAT WE WILL NOT BE AUTHORIZED ANY INSPECTION OF THE DEFERRED ITEMS PROPOSED PRIOR TO THE SUBMITTAL AND APPROVAL OF PLANS AND/OR CALCULATIONS FOR THOSE DEFERRED ITEMS.

PLANS FOR DEFERRED ITEMS SHALL BE SUBMITTED IN A TIMELY MANNER THAT ALLOWS FOR PLAN REVIEW.

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ARCHITECT OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME, AS ARCHITECT OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

Paul Marshall

PAUL DAVID MARSHALL, AIA, C-24785, EXP. 03-31-17
HERITAGE ARCHITECTURE & PLANNING
633 FIFTH AVENUE
SAN DIEGO, CA 92101
TELEPHONE: (619) 239-7888
FAX: (619) 234-6286

F.A.A. NOTE

FAA CERTIFICATION

I, Paul Marshall, DO HEREBY CERTIFY THAT THE STRUCTURE(S) SHOWN ON THESE PLANS DO NOT REQUIRE FEDERAL AVIATION ADMINISTRATION NOTIFICATION BECAUSE PER SECTION 77.15 (a) OF TITLE 14 OF THE CODE OF FEDERAL REGULATIONS CFR PART 77, NOTIFICATION IS NOT REQUIRED.

A PRE-CONSTRUCTION INSPECTION IS REQUIRED DUE TO THE HEIGHT OF THE PROPOSED STRUCTURE IN RELATION TO THE FAA PART 77 NOTIFICATION SURFACE REQUIREMENTS. THE PRE-CONSTRUCTION INSPECTION MUST BE SCHEDULED AND CLEARED BY THE FIELD INSPECTOR BEFORE ANY SUBSEQUENT INSPECTIONS CAN BE SCHEDULED. CALL (858) 581-7111 TO SCHEDULE THE PRE-CONSTRUCTION INSPECTION. CONTACT THE INSPECTION SERVICES OFFICE AT (858) 492-5070, IF YOU HAVE ANY QUESTIONS PERTAINING TO THE PRE-CONSTRUCTION INSPECTION.

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

PROJECT TEAM

APPLICANT/CLIENT
NEW INTERNATIONAL
COTTAGES COMMITTEE (NICC)
8695 TOWNE CENTER DR. 105-509
SAN DIEGO, CA 92122
CONTACT: GHASSAN SAUDI
PHONE: (858) 952-3477
E-MAIL: ghasan-construction@msn.com

OWNER
CITY OF SAN DIEGO
PARK AND RECREATION DEPARTMENT
SAN DIEGO, CA 92101
CONTACT: CHARLES DANIELS
PARK DESIGNER
PHONE: (619) 533-6597
E-MAIL: CDaniels@sandiego.gov

ARCHITECT
HERITAGE ARCHITECTURE & PLANNING
633 FIFTH AVENUE
SAN DIEGO, CA 92101
CONTACT: DAVID MARSHALL, AIA
STUART SAWASAKI
CARMEN PAULI
PHONE: (619) 239-7888
FAX: (619) 234-6286
E-MAIL: david@heritagearchitecture.com
stuart@heritagearchitecture.com
carmen@heritagearchitecture.com

LANDSCAPE ARCHITECT
ESTRADA LAND PLANNING
225 BROADWAY, SUITE 1160
SAN DIEGO, CA 92101
CONTACT: VICKI ESTRADA
PHONE: (619) 236-0143
FAX: (619) 236-0578
E-MAIL: VEstrada@EstradaLandPlan.com

CIVIL ENGINEER
JERUSALEM CONSULTING ENGINEERS
9966 DOLORES STREET, SUITE 201
SPRING VALLEY, CA 91977
CONTACT: MAHMOUD ORIQAT, P.E.
PHONE: (619) 277-9150
E-MAIL: moriqat@ceinc.us

STRUCTURAL ENGINEERING
MJ STRUCTURAL ENGINEERS
7710 BALBOA AVENUE, SUITE 206-C
SAN DIEGO, CA 92111
CONTACT: JAMES MILLER
PHONE: (858) 442-7771
FAX: (619) 996-2082
E-MAIL: jmiller@mj se.com

MPE ENGINEERING
ENGINEERED SYSTEMS
P.O. BOX 2186
SPRING VALLEY, CA 91979
CONTACT: CRAIG MOYA
PHONE: (619) 825-7516
E-MAIL: engsys@att.net

GEOTECHNICAL/SOILS ENGINEERING
CONSTRUCTION TESTING & ENGINEERING
1441 MONTIEL ROAD, SUITE 115
ESCONDIDO, CA 92026
CONTACT: NATASHA INDEGNO
PHONE: (760) 746-4955
FAX: (760) 746-4931
E-MAIL: natasha@cts-inc.net

DRY UTILITY SYSTEM ENGINEERING
PCG UTILITY CONSULTANTS
3911 NORTH CORDOBA AVENUE, SUITE B
SPRING VALLEY, CA 91977
CONTACT: BOB JOHNSON
PHONE: (619) 660-1355
FAX: (619) 660-1372
E-MAIL: admin@procongp.com

ACCESSIBILITY NOTES

I AM THE DESIGNER/OWNER IN RESPONSIBLE CHARGE OF THIS TENANT IMPROVEMENT PROJECT. I HAVE INSPECTED THE SITE/PREMISES AND DETERMINED THAT EXISTING CONDITIONS ARE IN FULL COMPLIANCE WITH CURRENT SITE ACCESSIBILITY REQUIREMENTS TO THE EXTENT REQUIRED BY LAW.

PRINT NAME: P. DAVID MARSHALL, SIGN NAME: Paul Marshall, DATE: APR. 12, 2017

IF THE CITY BUILDING INSPECTOR DETERMINES NON-COMPLIANCE WITH ANY ACCESSIBILITY PROVISIONS, A COMPLETE AND DETAILED REVISED PLANS CLEARLY SHOWING ALL EXISTING NON-COMPLYING CONDITIONS AND THE PROPOSED MODIFICATIONS TO MEET CURRENT ACCESSIBILITY REQUIREMENTS (INCLUDING SITE PLAN, FLOOR PLANS, DETAILS, ETC.) WILL BE SUBMITTED TO THE DEPARTMENT FOR REVIEW AND APPROVAL.

GENERAL BUILDING HEIGHT AND AREA LIMITATIONS

PER SECTION 503.1.2, BUILDINGS TO BE CONSIDERED AS PORTIONS OF ONE BUILDING.

497268 1744109/1744131/1744152
1744179/1744193

12/15/17

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C2	WATER SERVICE AND SEWER LATERALS ALIGNMENTS (COTTAGES 7-9)
C3	CONSTRUCTION BMP PLAN (COTTAGES 1 THROUGH 9)
C4	DETAILS (COTTAGES 1 THROUGH 9)
C5	SITE ACCESSIBILITY PLAN (COTTAGES 1 THROUGH 9)
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L-3	CONSTRUCTION PLAN (COTTAGES 1-6)
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L-7	IRRIGATION PLAN (COTTAGES 7-9)
L-8	IRRIGATION LEGEND AND DETAILS
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L-10	PLANTING PLAN (COTTAGES 7-9) & LEGEND
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A2.2	COTTAGE 1/2 ROOF PLAN
A2.3	COTTAGE 1/2 EXTERIOR ELEVATIONS
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A4.3	COTTAGE 5/6 EXTERIOR ELEVATIONS
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A8.1	WALL DETAILS
A8.2	DOOR AND WINDOW DETAILS
A8.3	WINDOW GRILLE DETAILS
A8.4	ACCESSIBILITY DETAILS
A8.5	ROOF DETAILS
A8.6	CHIMNEY & ORNAMENTATION DETAILS
A8.7	STAIR DETAILS
S0.1	GENERAL STRUCTURAL NOTES AND DRAWING INDEX
S0.2	GENERAL STRUCTURAL NOTES CONTINUED
S0.3	SYMBOLS AND ABBREVIATIONS
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S1.3	TYPICAL WOOD DETAILS
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S3.1	SECTIONS AND DETAILS
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E1.2	ELECTRICAL PLANS COTTAGE 3/4
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E1.4	ELECTRICAL PLANS COTTAGE 7/8 AND 9
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EN1.2	ENERGY CODE FORMS - COTTAGE 1/2
EN2.1	ENERGY CODE FORMS - COTTAGE 3/4
EN2.2	ENERGY CODE FORMS - COTTAGE 3/4
EN3.1	ENERGY CODE FORMS - COTTAGE 5/6
EN3.2	ENERGY CODE FORMS - COTTAGE 5/6
EN4.1	ENERGY CODE FORMS - COTTAGE 7/8
EN4.2	ENERGY CODE FORMS - COTTAGE 7/8
EN5.1	ENERGY CODE FORMS - COTTAGE 9
EN5.2	ENERGY CODE FORMS - COTTAGE 9

LICENSED ARCHITECT PAUL DAVID MARSHALL C-24785 REG. EXP. 03-31-17 STATE OF CALIFORNIA

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

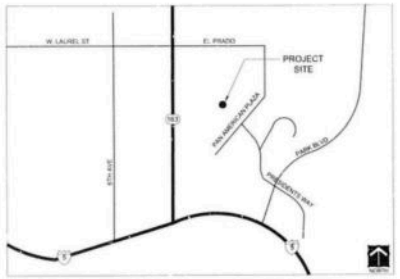
ASSESSORS PARCEL NUMBER

ASSESSORS PARCEL NUMBERS: PROPERTY TO INCLUDE TAX PARCELS 534-450-08 PORTION AND 760-212-51, 52, 53, 54, 55, 56, 57, 78, & 79.

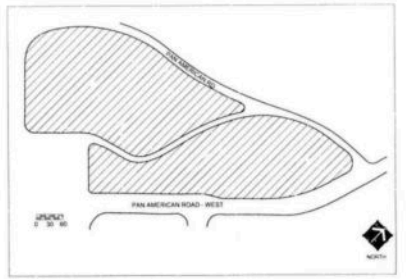
EXISTING LEGAL DISCRIPTION

LEGAL DESCRIPTION: THAT PORTION OF THE LAND DESIGNATED "CITY PARK RESERVATION," WHICH LIES WITHIN THE PUEBLO LANDS OF SAN DIEGO, IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MISCELLANEOUS MAP THERE OF NO. 36, BY JAMES PASCOE, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, BEING A PORTION OF PUEBLO LOT 1135 AND PUEBLO LOT 1136 OF SAID PUEBLO LANDS ACCORDING TO MISCELLANEOUS MAP THEREOF NO. 35, BY CHARLES H. POOLE, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY.

VICINITY MAP



LOCATION MAP



PROJECT DESCRIPTION

BALBOA PARK WAS FOUNDED BY A SMALL GROUP OF VISIONARY POLITICIANS AND BUSINESSMEN WHO FELT THAT IF SAN DIEGO WAS TO BECOME A WORLD-CLASS CITY, IT WOULD NEED A WORLD-CLASS PARK. IN 1868, A 1400-ACRE CITY PARK WAS ESTABLISHED. IN 1915, SAN DIEGO BECAME HOST TO THE PANAMA-CALIFORNIA EXPOSITION COMMEMORATING THE OPENING OF THE PANAMA CANAL THAT LINKED THE ATLANTIC AND PACIFIC OCEANS. TODAY, BALBOA PARK REMAINS ONE OF THE LARGEST URBAN PARKS IN THE UNITED STATES AND CONTINUES TO WELCOME OVER 12 MILLION VISITORS ANNUALLY.

THE HOUSE OF PACIFIC RELATIONS, ESTABLISHED IN 1935, IS A CONSORTIUM OF "HOUSES" REPRESENTING 32 COUNTRIES PROMOTING MULTICULTURAL GOODWILL AND UNDERSTANDING THROUGH EDUCATIONAL AND CULTURAL PROGRAMS. THIS PROJECT WILL INCLUDE THE CONSTRUCTION OF NINE NEW COTTAGES FOR MEXICO, INDIA, LEBANON, TURKEY, PALESTINE, PERU, PANAMA, COLOMBIA, AND, THE PHILIPPINES.

THE COTTAGES WILL BE GROUPED WITHIN FOUR NEW DUPLEX BUILDINGS AND ONE SINGLE COTTAGE BUILDING. THE BUILDINGS ARE ARCHITECTURALLY COMPATIBLE WITH THE EXISTING HISTORIC COTTAGES AND EACH OF THE BUILDINGS WILL INCLUDE A SHARED BATHROOM AND RESIDENTIAL-STYLE KITCHEN. THE COTTAGES DO NOT INCLUDE MECHANICAL HEATING OR AIR CONDITIONING. THE COTTAGES ARE CAREFULLY LOCATED TO MINIMIZE THE LOSS OF EXISTING VEGETATION, LIMIT DISRUPTION OF EXISTING ACTIVITIES, AND MINIMIZE VISUAL IMPACTS TO THE SURROUNDING SITE.

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

SHEET TITLE: TITLE SHEET	SHEET NUMBER: TS1
LAMBERT COORDINATES:204-1721	THOMAS BROTHERS PAGE: 60, G-6
	(PSD #)

CAL GREEN NOTES

1. EMPLOY MOISTURE CONTROL MEASURES BY THE FOLLOWING METHODS: SECTION 5.407.2 OF CALGREEN
   A. NEWLY INSTALLED AUTOMATIC LANDSCAPE IRRIGATORS SHALL BE INSTALLED IN SUCH A WAY THAT IT DOESN'T SPRAY ON THE BUILDING. (5.407.2.1)
   B. PRIMARY EXTERIOR ENTRIES SHALL BE COVERED TO PREVENT WATER INTRUSION BY USING NON-ABSORBENT WALL AND FLOOR FINISHES WITHIN AT LEAST 2 FEET AROUND THE PERPENDICULAR TO SUCH ENTRY
2. CONSTRUCTIONS WASTE SHALL BE REDUCED BY 50% RECYCLE AND OR SALVAGE FOR REUSE A MIN. OF 50% OF NON-HAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS, OR MEET THE CITY OF SAN DIEGO CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. CALCULATE THE AMOUNT OF MATERIALS DIVERTED BY VOLUME OR WEIGHT, BUT NOT BOTH. (5.408.3) EXCEPTION:
   A. EXCAVATED SOILS AND LAND-CLEARING DEBRIS
   B. ALTERNATE WASTE REDUCTION METHODS DEVELOPED BY WORKING WITH LOCAL AGENCIES IF DIVERSION OR RECYCLE FACILITIES CAPABLE OF COMPLIANCE WITH THIS DO NOT EXIST.
3. DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH SECTION 5.408.2, ITEMS 1 THRU 4. THE WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE ACCESSIBLE DURING CONSTRUCTION FOR EXAMINATION BY THE ENFORCING AGENCY. (5.408.2.1 DOCUMENTATION.)
4. 100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING PRIMARILY FROM LAND CLEARING SHALL BE REUSED OR RECYCLED FOR A PHASED PROJECT, SUCH MATERIAL MAY BE STOCKPILED ON SITE UNTIL THE STORAGE SITE IS DEVELOPED. (5.408.4 EXCAVATED SOIL AND LAND CLEARING DEBRIS.)
5. ESTABLISH A CONSTRUCTION WASTE MANAGEMENT PLAN FOR THE DIVERTED MATERIALS, OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. (5.408.1 CONSTRUCTION WASTE DIVERSION.)
6. THE ENFORCING AGENCY MAY MAKE EXCEPTIONS TO THE REQUIREMENTS OF THIS SECTION WHEN JOBSITES ARE LOCATED IN AREAS BEYOND THE HAUL BOUNDARIES OF THE DIVERSION FACILITY. (5.408.2.2 ISOLATED JOBSITES.)
7. PRIOR TO PERMIT ISSUANCE A COMMISSIONING PLAN SHALL BE COMPLETED TO DOCUMENT HOW THE PROJECT WILL BE COMMISSIONED AND SHALL BE STARTED DURING THE DESIGN PHASE OF THE BUILDING PROJECT. THE COMMISSIONING PLAN SHALL INCLUDE THE FOLLOWING: (5.410.2.3 COMMISSIONING PLAN.)
   a. GENERAL PROJECT INFORMATION
   b. COMMISSIONING GOALS
   c. SYSTEMS TO BE COMMISSIONED. PLANS TO TEST SYSTEMS AND COMPONENTS SHALL INCLUDE:
   d. AN EXPLANATION OF THE ORIGINAL DESIGN INTENT
   e. EQUIPMENT AND SYSTEMS TO BE TESTED, INCLUDING THE EXTENT OF TESTS
   f. FUNCTIONS TO BE TESTED
   g. CONDITIONS UNDER WHICH THE TEST SHALL BE PERFORMED
   h. MEASURABLE CRITERIA FOR ACCEPTABLE PERFORMANCE
   i. COMMISSIONING TEAM INFORMATION
   j. COMMISSIONING PROCESS ACTIVITIES, SCHEDULES AND RESPONSIBILITIES. PLANS FOR THE COMPLETION OF COMMISSIONING REQUIREMENTS LISTED IN SECTIONS 5.410.2.4 THROUGH 5.410.2.6 SHALL BE INCLUDED
8. FUNCTIONAL PERFORMANCE TESTS SHALL DEMONSTRATE THE CORRECT INSTALLATION AND OPERATION OF EACH COMPONENT, SYSTEM AND SYSTEM-TO-SYSTEM INTERFACE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. FUNCTIONAL PERFORMANCE TESTING REPORTS SHALL CONTAIN INFORMATION ADDRESSING EACH OF THE BUILDING COMPONENTS TESTED, THE TESTING METHODS UTILIZED, AND INCLUDE ANY READINGS AND ADJUSTMENTS MADE. (5.410.2.4 FUNCTIONAL PERFORMANCE TESTING.)
9. A SYSTEMS MANUAL AND SYSTEMS OPERATIONS TRAINING ARE REQUIRED, INCLUDING OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) REQUIREMENTS IN CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS. (5.410.2.5 DOCUMENTATION AND TRAINING.)
10. DOCUMENTATION OF THE OPERATIONAL ASPECTS OF THE BUILDING SHALL BE COMPLETED WITHIN THE SYSTEMS MANUAL AND DELIVERED TO THE BUILDING OWNER OR REPRESENTATIVE AND FACILITIES OPERATOR. THE SYSTEMS MANUAL SHALL INCLUDE THE FOLLOWING: (5.410.2.5.1 SYSTEMS MANUAL.)
    a. SITE INFORMATION, INCLUDING FACILITY DESCRIPTION, HISTORY AND CURRENT REQUIREMENTS
    b. SITE CONTACT INFORMATION
    c. BASIC OPERATIONS AND MAINTENANCE, INCLUDING GENERAL SITE OPERATING PROCEDURES, BASIC TROUBLESHOOTING, RECOMMENDED MAINTENANCE REQUIREMENTS, SITE EVENTS LOG
    d. MAJOR SYSTEMS
    e. SITE EQUIPMENT INVENTORY AND MAINTENANCE NOTES
    f. A COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY THE ENFORCING AGENCY OR THIS CODE
    g. OTHER RESOURCES AND DOCUMENTATION
11. THE TRAINING OF THE APPROPRIATE MAINTENANCE STAFF FOR EACH EQUIPMENT TYPE AND/OR SYSTEM SHALL BE DOCUMENTED IN THE COMMISSIONING REPORT AND SHALL INCLUDE THE FULLOWING: (5.410.2.5.2 SYSTEMS OPERATIONS TRAINING.)
    a. SYSTEM/EQUIPMENT OVERVIEW (WHAT IT IS, WHAT IT DOES AND WITH WHAT OTHER SYSTEMS AND/OR EQUIPMENT IT INTERFACES)
    b. REVIEW AND DEMONSTRATION OF SERVICING/PREVENTIVE MAINTENANCE
    c. REVIEW OF THE INFORMATION IN THE SYSTEMS MANUAL
    d. REVIEW OF THE RECORD DRAWINGS ON THE SYSTEM/EQUIPMENT
12. A COMPLETE REPORT OF COMMISSIONING PROCESS ACTIVITIES UNDERTAKEN THROUGH THE DESIGN, CONSTRUCTION AND REPORTING RECOMMENDATIONS FOR POST-CONSTRUCTION PHASES OF THE BUILDING PROJECT SHALL BE COMPLETED AND PROVIDED TO THE OWNER OR REPRESENTATIVE. (5.410.2.6 COMMISSIONING REPORT.)
13. TESTING AND ADJUSTING OF SYSTEMS SHALL BE REQUIRED FOR BUILDINGS LESS THAN 10,000 SQUARE FEET. (5.410.4 TESTING AND ADJUSTING.)
14. DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE AT A MINIMUM, AS APPLICABLE TO THE PROJECT: (5.410.4.2 SYSTEMS.)
    a. HVAC SYSTEMS AND CONTROLS
    b. INDOOR AND OUTDOOR LIGHTING AND CONTROLS
    c. WATER HEATING SYSTEMS
    d. RENEWABLE ENERGY SYSTEMS
    e. LANDSCAPE IRRIGATION SYSTEMS
    f. WATER REUSE SYSTEMS
15. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH INDUSTRY BEST PRACTICES AND APPLICABLE STANDARDS ON EACH SYSTEM AS DETERMINED BY THE BUILDING OFFICIAL. (5.410.4.3 PROCEDURES.)
16. AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES. (5.410.4.4 REPORTING.)
17. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH SYSTEM. O & M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142, AND OTHER RELATED REGULATIONS. (5.410.4.5 OPERATION AND MAINTENANCE (O & M) MANUAL.)
18. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY. (5.410.4.5.1 INSPECTIONS AND REPORTS.)
19. ADHESIVES, SEALANTS, AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE FOLLOWING STANDARDS: (5.504.4.1 ADHESIVES, SEALANTS AND CAULKS.)
    a. ADHESIVES, ADHESIVE BONDING PRIMERS ADHESIVE PRIMERS, SEALANTS, SEALANT PRIMERS AND CAULKS SHALL COMPLY WITH LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY MANAGEMENT DISTRICT RULES WHERE APPLICABLE, OR SCAQMD RULE 1168 VOC LIMITS, AS SHOWN IN TABLES 5.504.4.1 AND 5.504.4.2. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS AS SPECIFIED IN SUBSECTION 2, BELOW.
    b. AEROSOL ADHESIVES, AND SMALLER UNITS SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN ONE POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.
    c. A LETTER FROM THE CONTRACTOR AND OR THE BUILDING OWNER CERTIFYING WHAT MATERIAL HAS BEEN USED AND ITS COMPLIANCE WITH THE CODE MUST BE SUBMITTED TO THE BUILDING INSPECTOR.
20. ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH TABLE 5.504.4.2 UNLESS MORE STRINGENT LOCAL LIMITS APPLY.
21. AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(a)(3) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES (CCR, TITLE 17, SECTION 94520 ET SEQ).
22. A LETTER FROM THE CONTRACTOR AND OR THE BUILDING OWNER CERTIFYING WHAT PAINT HAS BEEN USED AND ITS COMPLIANCE WITH THE CODE MUST BE SUBMITTED TO THE BUILDING INSPECTOR
23. WHERE AREAS OUTDOOR ARE PROVIDED FOR SMOKING, PROHIBIT SMOKING WITHIN 25 FEET OF BUILDING ENTRIES, OUTDOOR AIR INTAKES AND OPERABLE WINDOWS AND WITHIN THE BUILDING AS ALREADY PROHIBITED BY OTHER LAWS OR REGULATIONS, OR AS ENFORCED BY ORDINANCES, REGULATIONS, OR POLICIES OF ANY CITY, COUNTY, CITY AND COUNTY, CALIFORNIA COMMUNITY COLLEGE, CAMPUS OF THE CALIFORNIA STATE UNIVERSITY, OR CAMPUS OF THE UNIVERSITY OF CALIFORNIA, WHICHEVER ARE MORE STRINGENT. WHEN ORDINANCES, REGULATIONS, OR POLICIES ARE NOT IN PLACE, SIGNAGE SHALL BE POSTED TO INFORM BUILDING OCCUPANTS OF THE PROHIBITIONS.
24. WALL AND FLOOR CEILING ASSEMBLIES SEPARATING TENANT SPACES AND TENANT SPACES AND PUBLIC PLACES SHALL HAVE AN STC RATING OF AT LEAST 40.
25. ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL BE MEET AT LEAST ONE OF THE FOLLOWING TESTING AND PRODUCT REQUIREMENTS WHICH ARE LISTED IN SECTION 5.504.4.4 OF CAL GREEN
    a. CARPET AND RUG INSTITUTES' GREEN LABEL PLUS PROGRAM
    b. COMPLIANT WITH VOC-EMISSION LIMITS AND TESTING REQUIREMENTS SPECIFIED IN THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD METHOD FOR TESTING AN DEVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSION S FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS CDPH STANDARD METHOD V1.1 OR SPECIFICATION 01350)
    c. NSF/ANSI 140 AT THE GOLD LEVEL OR HIGHER
    d. SCIENTIFIC CERTIFICATION SYSTEMS SUSTAINABLE CHOICE
    e. COMPLIANCE WITH THE CALIFORNIA COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CA-CHPS) CRITERIA INTERPRETATION FOR EQ 2.2 DATED JULY 2012 AND LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE.
26. ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM. ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 804.4.1. A LETTER FROM THE INSTALLER CERTIFYING COMPLIANCE MUST BE SUBMITTED TO THE BUILDING INSPECTOR.
27. AT LEAST 80% OF THE FLOOR AREA RECEIVING RESILIENT FLOORING SHALL MEET ONE OF THE FOLLOWING CRITERIA:
    a. CERTIFIED UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOOR SCORE PROGRAM.
    b. COMPLIANT WITH THE VOC-EMISSION LIMITS AND TESTING REQUIREMENTS SPECIFIED IN THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH'S 2010 STANDARD METHOD FOR TESTING AND EVALUATION CHAMBERS, VERSION 1.1, FEBRUARY 2010.
    c. COMPLIANT WITH THE CALIFORNIA COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CA-CHPS) CRITERIA INTERPRETATION FOR EQ 2.2 DATED JULY 2012 AND LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE.
    d. COMPLIANT WITH CDPH CRITERIA AS CERTIFIED UNDER THE GREENGUARD CHILDREN'S & SCHOOL PROGRAM
28. MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS SHALL MEET THE MINIMUM REQUIREMENTS OF SECTION 121 (REQUIREMENTS FOR VENTILATION) OF THE 2010 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8.
29. WALL AND ROOF-CEILING ASSEMBLIES EXPOSED TO THE NOISE SOURCE MAKING UP THE BUILDING OR ADDITION ENVELOPE OR ALTERED ENVELOPE SHALL MEET A COMPOSITE STC RATING OF AT LEAST 50 OR A COMPOSITE OITC RATING OF NO LESS THAN 40, WITH EXTERIOR WINDOWS OF A MINIMUM STC OF 40 OR OITC OF 30 IF LOCATED WITHIN THE 65 CNEL NOISE CONTOUR OF AN AIRPORT OR WITH THE 65 CNEL OR L DN NOISE, CONTOUR OF A FREEWAY OR EXPRESSWAY, OR RAILROAD, INDUSTRIAL SOURCE OR FIXED-GUIDEWAY SOURCE AS DETERMINED. NOISE ELEMENT OF THE GENERAL PLAN.
30. EACH SELF CLOSING LAVATORY FAUCET SHALL NOT EXCEED A WATER FLOW OF 0.20 GALLONS/CYCLE.
31. EACH KITCHEN FAUCET SHALL NOT EXCEED A WATER FLOW OF 1.8 GPM.

SPECIAL INSPECTIONS

1. NOTICE TO THE APPICANT/OWNER/OWNER'S AGENT/ARCHITECT OR ENGINEER OR RECORD: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATIONOF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES
2. NOTICE TO THE CONTRACTOR/ BUILDER/ INSTALLER/ SUB-CONTRACTOR/ OWNER-BUILDER: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF, THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION/ YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.
3. THE SPECIAL INSPECTOR MUST BE CERTIFIED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION
4. THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND, EQUIPMENTS.
5. FABRICATOR MUST BE APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES FOR THE FABRICATION OF MEMBERS AND ASSEMBLIES ON THE PREMISES OF THE FABRICATOR'S SHOP.
6. FABRICATOR SHALL SUBMIT AN 'APPLICATION TO PERFORM OFF-SITE FABRICATION' TO THE INSPECTION SERVICES DIVISION "OR APPROVAL PRIOR TO COMMENCEMENT OF FABRICATION.
7. FABRICATOR SHALL SUBMIT A 'CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION' TO THE INSPECTION SERVICES DIVISION PRIOR TO ERECTION OF FABRICATED ITEMS AND ASSEMBLIES.

FIRE PROTECTION NOTES

1. LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH CFC 906 AND CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 19.
2. DURING CONSTRUCTION, AT LEAST ONE EXTINGUISHER SHALL BE PROVIDED ON EACH FLOOR LEVEL AT EACH STAIRWAY, IN ALL STORAGE AND CONSTRUCTION SHEDS, IN LOCATIONS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED OR USED, AND WHERE OTHER SPECIAL HAZARDS ARE PRESENT PER CFC SECTION 3315.1.
3. BUILDINGS UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL CONFORM TO CFC CHAPTER 33. WELDING, CUTTING, AND OTHER HOT WORK SHALL BE IN CONFORMANCE WITH CFC CHAPTER 35.
4. ADDRESS IDENTIFICATION SHALL BE PROVIDED FOR ALL NEW AND EXISTING BUILDINGS IN A LOCATION THAT IS PLAINLY VISIBLE AND LEGIBLE FORM THE STREET OR ROAD FRONTING THE PROPERTY. WHERE ACCESS IS BY WAY OF A PRIVATE ROAD AND THE BUILDING ADDRESS CANNOT BE VIEWED FROM THE PUBLIC WAY, AN APPROVED SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE. PREMISES IDENTIFICATION SHALL CONFORM TO CBC SECTION 501.2
5. WALL, FLOOR AND CEILING FINISHES AND MATERIALS SHALL NOT EXCEED THE INTERIOR FINISH CLASSIFICATIONS IN CBC TABLE 803.9 AND SHALL MEET THE FLAME PROPAGATION PERFORMANCE CRITERIA OF THE CALIFORNIA CODE OF REGULATIONS TITLE 19, DIVISION 1. DECORATIVE MATERIALS SHALL BE PROPERLY TREATED BY A PRODUCT OR PROCESS APPROVED BY THE STATE FIRE MARSHAL WITH APPROPRIATE DOCUMENTATION PROVIDED TO THE CITY OF SAN DIEGO.
6. DUMPSTERS AND TRASH CONTAINERS EXCEEDING 1.5 CUBIC YARDS SHALL NOT BE STORED IN BUILDINGS OR PLACED WITHIN 5 FEET OF COMBUSTIBLE WALLS, OPENINGS OR COMBUSTIBLE ROOF EAVE LINES UNLESS PROTECTED BY AN APPROVED SPRINKLER SYSTEM OR LOCATED IN A TYPE I OR TYPE IIA STRUCTURE SEPARATED BY 10 FET FROM OTHER STRUCTURES. CONTAINERS LARGER THAN 1 CUBIC YARD SHALL BE OF NON- OR LIMITED-COMBUSTIBLE MATERIALS OR SIMILARLY PROTECTED OR SEPARATED. CFC 304.3
7. EXITS, EXIT SIGNS, FIRE ALARM PANELS, HOSE CABINETS, FIRE EXTINGUISHER LOCATIONS AND STANDPIPE CONNECTIONS SHALL NOT BE CONCEALED BY CURTAINS, MIRRORS, OR OTHER DECORATIVE MATERIAL
8. OPEN FLAMES, FIRE AND BURNING ON ALL PREMISES IS PROHIBITED EXCEPT AS SPECIFICALLY PERMITTED BY THE CITY OF SAN DIEGO AND CFC 308.
9. THE EGRESS PATH SHALL REMAIN FREE AND CLEAR OF ALL OBSTRUCTIONS AT ALL TIMES. NO STORAGE IS PERMITTED IN ANY EGRESS PATHS.

APPLICABLE STANDARD DRAWINGS AND SPECIFICATIONS

GREENBOOK - STANDARD SPECIFICATIONS FOR PUBLICS WORKS CONSTRUCTION INCLUDING THE CITY OF SAN DIEGO "WHITEBOOK" SUPPLEMENT TO THE GREENBOOK (CURRENT EDITION)

CITY OF SAN DIEGO STANDARD DRAWINGS (CURRENT EDITION).

DISABLED ACCESS REGULATIONS, TITLE 24, (CURRENT EDITION) AND CALIFORNIA STATE ACCESSIBILITY STANDARDS INTERPRETIVE MANUAL(CURRENT EDITION) PREPARED BY THE OFFICE OF THE STATE ARCHITECT AND THE DEPARTMENT OF REHABILITATION

AMERICANS WITH DISABILITIES ACT REGULATION: ADAAG (THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES) ISSUED BY THE ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD (CURRENT EDITION)

MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES, STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CURRENT EDITION).

U.S. CONSUMER PRODUCTS SAFETY COMMISSION HANDBOOK FOR PLAYGROUND SAFETY (CURRENT EDITION).

NOTE: THE MOST CURRENT EDITIONS OF THE PRECEDING DOCUMENTS SHALL BE USED WHERE ONE OR MORE SETS OF SPECIFICATIONS OR DRAWINGS ARE APPLICABLE, THE MOST RESTRICTIVE SHALL TAKE PRECEDENCE.

CAUTION

BEFORE EXCAVATING, VERIFY THE LOCATION OF UNDERGROUND UTILITIES. AT LEAST TWO (2) WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL REQUEST MARK-OUT OF UNDERGROUND UTILITIES BY CALLING THE BELOW LISTED REGIONAL NOTIFICATION CENTER FOR AN INQUIRY IDENTIFICATION NUMBER:

UNDERGROUND SERVICE ALERT (GAS, ELECTRIC, TELEPHONE, WATER, SEWER, LIGHTING, AND TV)	(800) 422-4133
IRRIGATION SYSTEMS	(619) 533-5783
IRRIGATION CONTROL WIRE	(619) 533-5783
FACILITIES MAINTENANCE DIVISION	(619) 525-8500

PARK CONSTRUCTION INSPECTION STAGES AND INSPECTION TEAM

PARK INSPECTION TEAM
A. SITE SUPERINTENDENT (CONTRACTOR/DEVELOPER'S REPRESENTATIVE)
B. CONTRACTOR(S)
C. RESIDENT ENGINEER FROM FIELD ENGINEERING DEPARTMENT
D. CITY PROJECT MANAGER
E. DESIGN CONSULTANT
F. PARK AND RECREATION DISTRICT MANAGER
G. PARK AND RECREATION ASSET MANAGER

PARK CONSTRUCTION INSPECTION STAGES: (MINIMUM DEPENDING ON PROJECT)
1. PRE-CONSTRUCTION MEETING
2. ROUGH GRADING AND DRAINAGE
3. IRRIGATION MAINLINE PRESSURE TEST
4. IRRIGATION LATERAL LINE PRESSURE TESTS
5. WIRING PRIOR TO BACKFILLING TRENCHES
6. HARDSCAPE AT TIME OF FINISHED STAKING AND LAYOUT
7. FINISH GRADING AND SOIL PREPARATION
8. IRRIGATION COVERAGE TEST
9. PLANT MATERIAL (WHEN DELIVERED) AND PLACEMENT APPROVAL
10. PLANT GROUND INSPECTION, IF APPLICABLE
11. PROJECT CONSTRUCTION 90 PERCENT COMPLETE (DEVELOP PUNCH LIST AND SUBMIT RED-LINES AS-BUILTS)
12. 90-DAY PLANT MAINTENANCE PERIOD (THIS INSPECTION IS TO BE HELD WHEN THE PUNCH LIST ITEMS ARE COMPLETE. IF TURF AREA IS PLANTED FROM SEED OR STOLONS THE PLANT MAINTENANCE PERIOD SHALL BE 120-DAYS)
13. FINAL WALK-THROUGH, ACCEPTANCE BY THE CITY. CONTRACTOR TO SUBMITS FINAL APPROVED AS-BUILT DRAWINGS TO THE CITY

WATER FEES

THE CITY OF SAN DIEGO PROJECT MANAGER AND THE CONSULTANT SHALL COORDINATE THE FOLLOWING: WATER AND SEWER CAPACITY FEES AND THE WET TAP FEES SHALL BE PRE-PAID BY THE CITY FOR CITY CONTRACTS. THE CONTRACTOR SHALL PAY ALL OTHER CONSTRUCTION AND MAINTENANCE WATER METER AND SEWER FEES, AND SHALL COORDINATE WITH THE WATER UTILITIES DEPARTMENT FOR INSTALLATION OF SURFACES. ALLOW THREE (3) MONTHS NOTICE TO THE WATER UTILITIES DEPARTMENT FOR DEVELOPER-BUILT PROJECTS, ALL FEES SHALL BE PAID BY THE DEVELOPER.

ENERGY EFFICIENCY STANDARDS NOTES

1. INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8 ENERGY EFFICIENCY STANDARDS (E.E.S)
2. DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTIONS 110.6 AND 110.7 E.E.S.

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

GENERAL NOTES — SHEET TITLE

TS2 — SHEET NUMBER

LAMBERT COORDINATES 204-1721 — THOMAS BROTHERS PAGE: 60, D-6 — (PSD #)

LICENSED ARCHITECT — PAUL DAVID MARSHALL — C-24785 — 10-31-19 — STATE OF CALIFORNIA

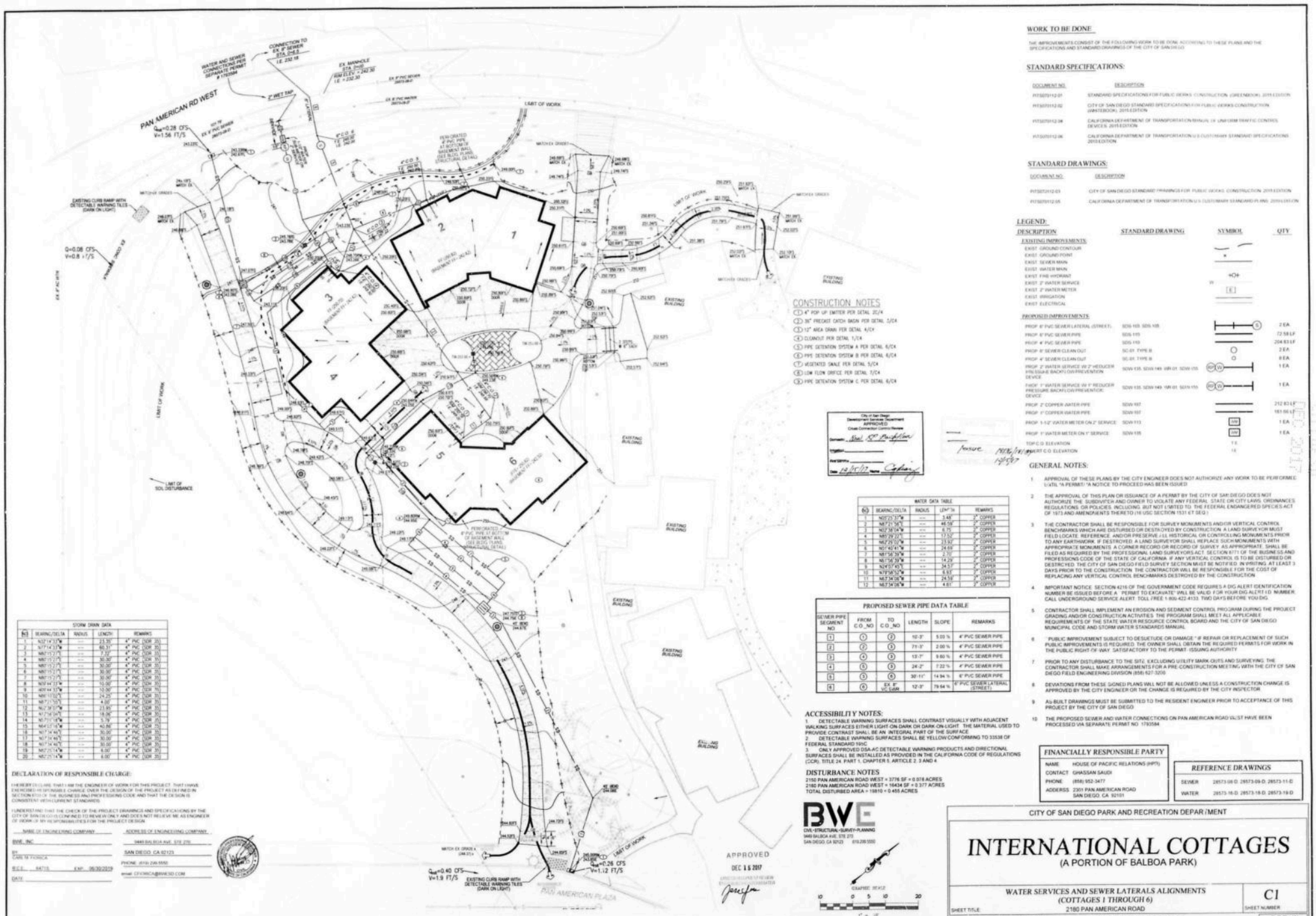
ARCHITECT OF WORK

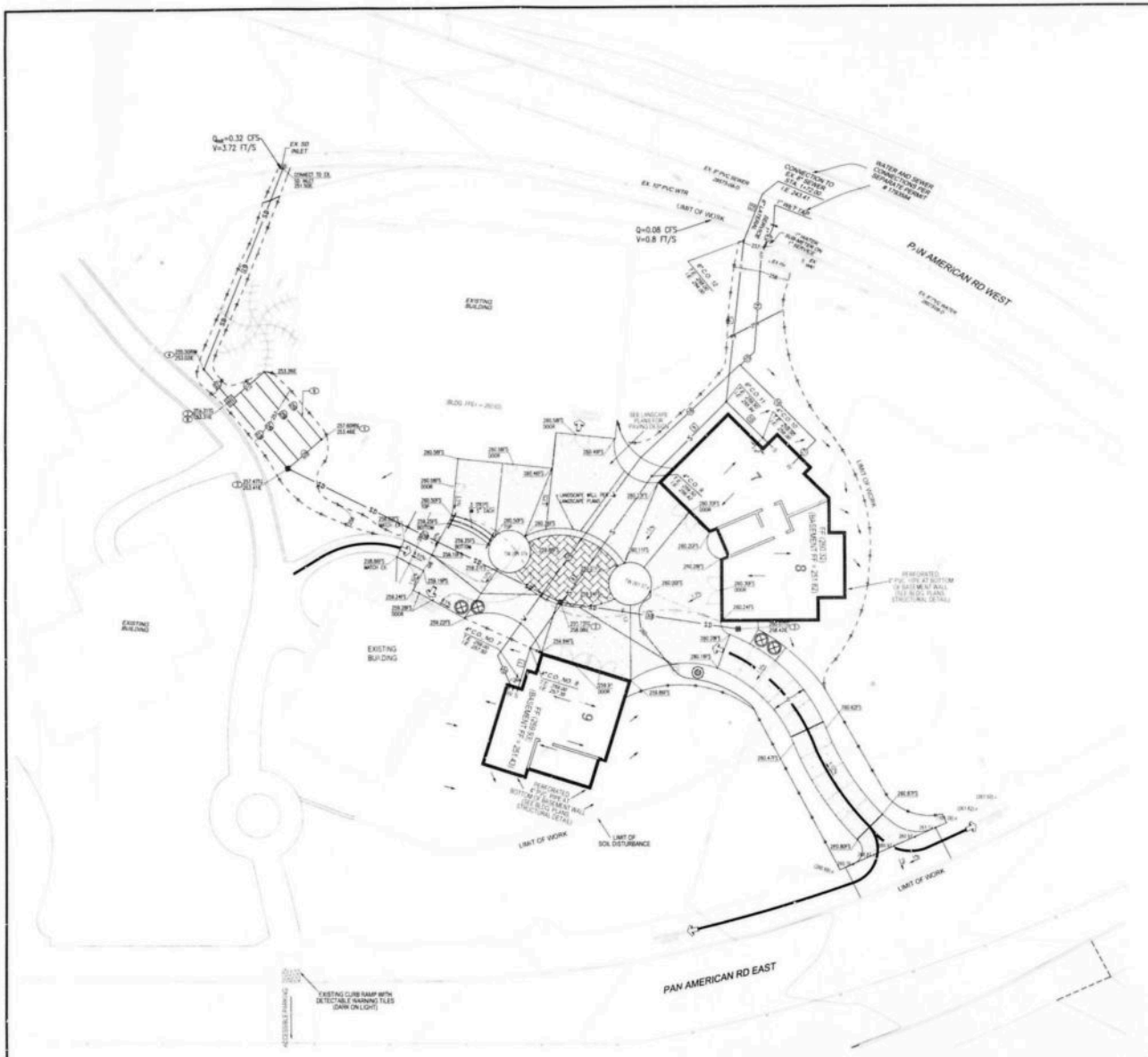
P. DAVID MARSHALL C-24785

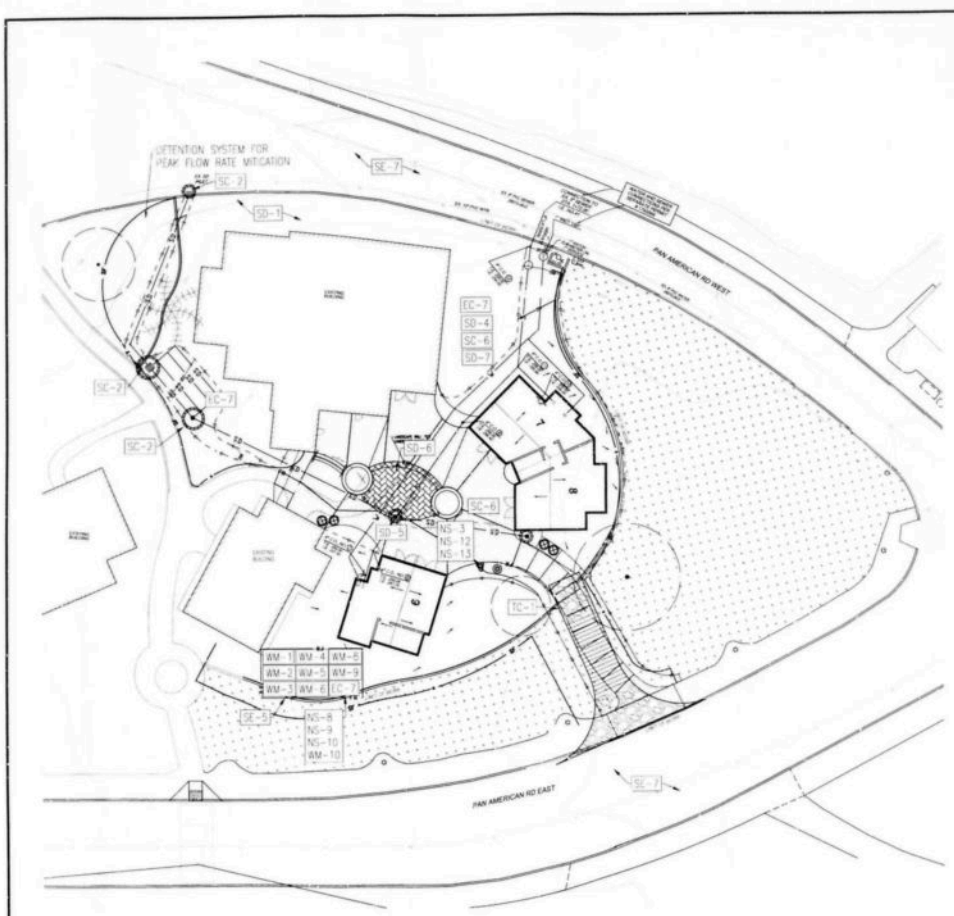
HERITAGE ARCHITECTURE & PLANNING

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

REC 2017


PAN AMERICAN RD WEST
PAN AMERICAN PLAZA
LIMIT OF WORK
LIMIT OF SOL DISTURBANCE
EXISTING BUILDING
EXISTING CURB RAMP WITH DETECTABLE WARNING TILES (DARK ON LIGHT)
Q=0.28 CFS V=1.56 FT/S
Q=0.08 CFS V=0.8 +/-FT/S
Q=0.40 CFS V=1.9 FT/S
Q=0.26 CFS V=1.12 FT/S
CONNECTION TO EX 8" SEWER STA. 0+00.5 I.E. 232.18
EX MANHOLE STA. 0+00 RIM ELEV = 242.30 I.E. = 232.30
2" WET TAP
EX 8" PVC SEWER (SDSTUB-2)
EX 8" PVC WATER (SDSTUB-2)
EX 10" PVC SEWER (SDSTUB-2)
EX 4" PVC SEWER (SDSTUB-2)
4" C.O. & I.E. 240.30 I.E. 232.30
6" C.O. & I.E. 240.30 I.E. 232.30
4" C.O. & I.E. 240.30 I.E. 232.30
4" C.O. & I.E. 240.30 I.E. 232.30
4


Q=0.32 CFS
V=3.72 FT/S
EX. 30" INLET
CONNECT TO EX. 30" RCP
EX. 12" PVC WTR
LIMIT OF WORK
Q=0.08 CFS
V=0.8 FT/S
CONNECTION TO EX. 8" SEWER
WATER AND SEWER CONNECTIONS PER SEPARATE PERMIT # 1793584
EX. 8" PVC SEWER
EX. 8" PVC SEWER
PAN AMERICAN RD WEST
EXISTING BUILDING
EXISTING BUILDING
EXISTING BUILDING
SEE LANDSCAPE PLANS FOR PAVING SCORE
LANDSCAPE WALL PER LANDSCAPE PLANS
P.C.O. NO. 7
P.C.O. NO. 8
P.C.O. NO. 9
SEWER EASEMENT PER 12621 O.R.
REMOVE EXIST. 12" PVC SEWER
REMOVE EXIST. 8" PVC SEWER
REMOVE EXIST. 8" PVC SEWER
REMOVE EXIST. 8



2150 PAN AMERICAN ROAD

2180 PAN AMERICAN ROAD

NTS

BMP'S NOTE:

THIS WATER POLLUTION CONTROL PLAN SHOULD BE MODIFIED IF RECOMMENDATIONS ARE INADEQUATE TO PROVIDE FOR THE CONTROL OF DISCHARGE.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THESE MEASURES ARE FOLLOWED AND ARE PROVIDING PROPER CONTROL OF DISCHARGE AND SEDIMENT AMENDMENTS SHOULD BE MADE TO THIS PLAN A NO THE WPCP, IF THE SITE IS GENERATING ANY STORM WATER POLLUTION.

NAME: AME INC
PHONE NO: (619) 299-5555
ADDRESS: 1449 BALBOA AVENUE, SUITE 272
SAN DIEGO, CA 92123

CARL FONCA — C64715 R.C.E. NO. — 06-30-19 EXP. — 12-11-17 DATE

EROSION + SEDIMENT CONTROL KEYNOTES

CASQA BMP ID	BMP NAME
WM-1	MATERIAL DELIVERY AND STORAGE
WM-2	MATERIAL USE
WM-3	STOCKPILE MANAGEMENT
WM-4	SPILL PREVENTION AND CONTROL
WM-5	SOLID WASTE MANAGEMENT
WM-6	HAZARDOUS WASTE MANAGEMENT
WM-8	CONCRETE WASTE MANAGEMENT
WM-9	SANITARY/SEPTIC WASTE MANAGEMENT
EC-7	GEOTEXTILES AND MATS
SE-1	SILT FENCE
SE-5	FIBER ROLLS
SE-10	STORM DRAIN INLET PROTECTION

CASQA BMP ID	BMP NAME
NS-8	VEHICLE AND EQUIPMENT CLEANING
NS-9	VEHICLE AND EQUIPMENT FUELING
NS-10	VEHICLE AND EQUIPMENT MAINTENANCE
NS-*2	CONCRETE CURING
NS-13	CONCRETE FINISHING
TC-1	CONSTRUCTION ENTRANCE
WM-10	LIQUID WASTE MANAGEMENT
EC-2	PRESERVATION OF EXISTING VEGETATION
SE-7	STREET SWEEPING AND VACUUMING

SOURCE CONTROL BMPS

SC-2	STORM DRAIN STENCILING OR SIGNAGE
SC-6	PREVENT POTENTIAL RUNOFF CONTAMINATION FROM LANDSCAPE/OUTDOOR PESTICIDE USE, PLAZAS, AND SIDEWALKS

SITE DESIGN BMPS

SD-1	MAINTAIN NATURAL DRAINAGE PATHWAYS AND HYDROLOGIC FEATURES
SD-3	MINIMIZE IMPERVIOUS AREAS
SD-4	MINIMIZE SOIL COMPACTION
SD-5	IMPERVIOUS AREA DISPERSION
SD-6	RUNOFF COLLECTION (PERVIOUS PAVEMENT)
SD-7	LANDSCAPING WITH NATIVE OR DROUGHT TOLERANT SPECIES

LEGEND

SILT FENCE (CASQA SE-1)

FIBER ROLLS (CASQA SE-5)

INLET PROTECTION (CASQA SE-10)

STABILIZED CONSTRUCTION ENTRANCE (CASQA TC-1)

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

CONSTRUCTION BMP PLAN
(COTTAGES 1 THROUGH 9)

SHEET TITLE

2150 & 2180 PAN AMERICAN ROAD

C3

SHEET NUMBER

LAMBERT COORDINATES: 204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

09-10-17

Storm Water Requirements Applicability Checklist

FORM DS-560 October 2016

Project Address: 2150 & 2180 Pan American Road San Diego, CA 92101 Project Number (for City Use Only)

SECTION 1. Construction Storm Water BMP Requirements:

All construction sites are required to implement construction BMPs in accordance with the performance standards in the Storm Water Standards Manual. Some sites are additionally required to obtain coverage under the State Construction General Permit (CGP). WPCP is addressed by the State Water Resources Control Board.

For all projects complete PART A: If project is required to submit a SWPPP or WPCP, continue to PART B.

PART A: Determine Construction Phase Storm Water Requirements.

1. Is the project subject to California's statewide General NPDES permit for Storm Water Discharges Associated with Construction Activities, also known as the State Construction General Permit (CGP)? (Typically projects with land disturbance greater than or equal to 1 acre.)

☐ Yes, SWPPP required, skip questions 2-4 ☒ No, next question

2. Does the project propose construction or demolition activity, including but not limited to, clearing, grading, grubbing, excavation, or any other activity resulting in ground disturbance and contact with storm water runoff?

☒ Yes, WPCP required, skip 3-4 ☐ No, next question

3. Does the project propose routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of the facility? (Projects such as pipeline/utility replacement)

☐ Yes, WPCP required, skip 4 ☐ No, next question

4. Does the project only include the following Permit types listed below?

- Electrical Permit, Fire Alarm Permit, Fire Sprinkler Permit, Plumbing Permit, Sign Permit, Mechanical Permit, Spa Permit
- Individual Right of Way Permits that exclusively include only ONE of the following activities: water service lateral, sewer, or utility service
- Right of Way Permits with a project footprint less than 150 linear feet that exclusively include only ONE of the following activities: curb ramp, sidewalk and driveway apron replacement, pot holing, curb and gutter replacement, and retaining wall encroachments

☐ Yes, no document required

Check one of the boxes below, and continue to PART B:

☐ If you checked "Yes" for question 1: a **SWPPP is REQUIRED. Continue to PART B**

☒ If you checked "Yes" for question 2 or 3: a **WPCP is REQUIRED**. If the project proposes less than 5,000 square feet of disturbed area AND has less than a 5 foot elevation change over the entire project area, a Minor WPCP may be required instead. **Continue to PART B.**

☐ If you checked "No" for all questions 1 - 3, and checked "Yes" for question 4, then **PART B does not apply and no document is required. Continue to Section 2.**

Clear Page 1

Page 2 of 4 City of San Diego • Development Services • Storm Water Requirements Applicability Checklist

PART B: Determine Construction Site Priority

This prioritization must be completed within this form, noted on the plans, and included in the SWPPP or WPCP. The city reserves the right to adjust the priority of projects both before and after construction. Construction projects are assigned an inspection frequency based on the priority they receive. "I has a "high threat to water quality." The City has aligned the local definition of "high threat to water quality" to the risk determination approach of the State Construction General Permit (CGP). The CGP determines risk level based on project specific sediment risk and receiving water risk. Additional inspection is required for projects within the Areas of Special Biological Significance (ASBS) watershed. **NOTE:** The construction priority does **NOT** change construction BMP requirements that apply to projects; rather, it determines the frequency of inspections that will be conducted by City staff.

Complete PART B and continued to Section 2

1. ☐ **ASBS**
   a. Projects located in the ASBS watershed.
2. ☐ **High Priority**
   a. Projects 1 acre or more determined to be Risk Level 2 or Risk Level 3 per the Construction General Permit and not located in the ASBS watershed.
   b. Projects 1 acre or more determined to be LUP Type 2 or LUP Type 3 per the Construction General Permit and not located in the ASBS watershed.
3. ☐ **Medium Priority**
   a. Projects 1 acre or more but not subject to an ASBS or high priority designation.
   b. Projects determined to be Risk Level 1 or LUP Type 1 per the Construction General Permit and not located in the ASBS watershed.
4. ☒ **Low Priority**
   a. Projects requiring a Water Pollution Control Plan but not subject to ASBS, high, or medium priority designation.

SECTION 2. Permanent Storm Water BMP Requirements.

Additional information for determining the requirements is found in the Storm Water Standards Manual.

PART C: Determine if Not Subject to Permanent Storm Water Requirements.

Projects that are considered maintenance, or otherwise not categorized as "new development projects" or "redevelopment projects" according to the Storm Water Standards Manual are not subject to Permanent Storm Water BMPs.

If "yes" is checked for any number in Part C, proceed to Part F and check "Not Subject to Permanent Storm Water BMP Requirements".

If "no" is checked for all of the numbers in Part C continue to Part D.

1. Does the project only include interior remodels and/or is the project entirely within an existing enclosed structure and does not have the potential to contact storm water? ☐ Yes ☒ No
2. Does the project only include the construction of overhead or underground utilities without creating new impervious surfaces? ☐ Yes ☒ No
3. Does the project fall under routine maintenance? Examples include, but are not limited to: roof or exterior structure surface replacement, resurfacing or reconfiguring surface parking lots or existing roadways without expanding the impervious footprint, and routine replacement of damaged pavement (grinding, overlay, and pothole repair). ☐ Yes ☒ No

Clear Page 2

City of San Diego • Development Services - Storm Water Requirements Applicability Checklist Page 3 of 4

PART D: PDP Exempt Requirements.

PDP Exempt projects are required to implement site design and source control BMPs.

If "yes" was checked for any questions in Part D, continue to Part F and check the box labeled "PDP Exempt."

If "no" was checked for all questions in Part D, continue to Part E.

1. **Does the project ONLY include new or retrofit sidewalks, bicycle lanes, or trails that:**
   - **Are designed and constructed to direct storm water runoff to adjacent vegetated areas, or other non-erodible permeable areas? Or;**
   - **Are designed and constructed to be hydraulically disconnected from paved streets and roads? Or;**
   - **Are designed and constructed with permeable pavements or surfaces in accordance with the Green Streets guidance in the City's Storm Water Standards manual?**

☐ Yes, PDP exempt requirements apply. ☒ No, next question

2. Does the project ONLY include retrofitting or redeveloping existing paved alleys, streets or roads designed and constructed in accordance with the Green Streets guidance in the City's Storm Water Standards Manual?

☐ Yes, PDP exempt requirements apply ☒ No, project not exempt.

PART F: Determine if Project is a Priority Development Project (PDP).

Projects that match one of the definitions below are subject to additional requirements including preparation of a Storm Water Quality Management Plan (SWQMP).

If "yes" is checked for any number in PART E, continue to PART F and check the box labeled "Priority Development Project".

If "no" is checked for every number in PART E, continue to PART F and check the box labeled "Standard Development Project".

1. **New Development that creates 10,000 square feet or more of impervious surfaces collectively over the project site.** This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land. ☐ Yes ☒ No
2. **Redevelopment project that creates and/or replaces 5,000 square feet or more of impervious surfaces on an existing site of 10,000 square feet or more of impervious surfaces.** This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land. ☐ Yes ☒ No
3. **New development or redevelopment of a restaurant.** Facilities that sell prepared foods and drinks for consumption, including stationary lunch counters and refreshment stands selling prepared foods and drinks for immediate consumption (SIC 5812), and where the land development creates and/or replaces 5,000 square feet or more of impervious surface. ☐ Yes ☒ No
4. **New development or redevelopment on a hillside.** The project creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site) and where the development will grade on any natural slope that is twenty five percent or greater. ☐ Yes ☒ No
5. **New development or redevelopment of a parking lot that creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site).** ☐ Yes ☒ No
6. **New development or redevelopment of streets, roads, highways, freeways, and driveways.** The project creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site). ☐ Yes ☒ No

Clear Page 3

Page 4 of 4 City of San Diego • Development Services - Storm Water Requirements Applicability Checklist

7. **New development or redevelopment discharging directly to an Environmentally Sensitive Area.** The project creates and/or replaces 2,500 square feet or more of impervious surface (collectively over project site), and discharges directly to an Environmentally Sensitive Area (ESA). "Discharge directly to" includes flow that is conveyed overland a distance of 200 feet or less from the project to the ESA, or conveyed in a pipe or open channel any distance as an isolated flow from the project to the ESA (i.e. not commingled with flows from adjacent lands). ☐ Yes ☒ No
8. **New development or redevelopment projects of a retail gasoline outlet (RGO) that create and/or replaces 5,000 square feet of impervious surface.** This development project meets the following criteria: (a) 5,000 square feet or more or (b) has a projected Average Daily Traffic (ADT) of 100 or more vehicles per day. ☐ Yes ☒ No
9. **New development or redevelopment projects of an automotive repair shops that creates and/or replaces 5,000 square feet or more of impervious surfaces.** Development projects (i.e. ... ...ndard Industrial Classification (SIC) codes 5013, 5014, 5541, 7532-7534, or 7536-7539. ☐ Yes ☒ No
10. **Other Pollutant Generating Project.** The project is not covered in the categories above, results in the disturbance of one or more acres of land and is expected to generate pollutants post-construction, such as fertilizers and pesticides. This does not include projects creating less than 5,000 sf of impervious surface, and where added landscaping does not require regular use of pesticides and fertilizers, such as slope stabilization using native plants. It also does not include the square footage of impervious surface need not include linear pathways that are for infrequent vehicle use, such as emergency maintenance access or bicycle pedestrian use if they are built with pervious surfaces or if they sheet flow to surrounding pervious surfaces. ☐ Yes ☒ No

PART F: Select the appropriate category based on the outcomes of PART C through PART E.

1. The project is **NOT SUBJECT TO PERMANENT STORM WATER REQUIREMENTS** ☐
2. The project is a **STANDARD DEVELOPMENT PROJECT**. Site design and source control BMP requirements apply. See the Storm Water Standards Manual for guidance. ☒
3. The project is **PDP EXEMPT**. Site design and source control BMP requirements apply. See the Storm Water Standards Manual for guidance. ☐
4. The project is a **PRIORITY DEVELOPMENT PROJECT**. Site design, source control, and structural pollutant control BMP requirements apply. See the Storm Water Standards Manual for guidance on determining if project requires a hydromodification plan management. ☐

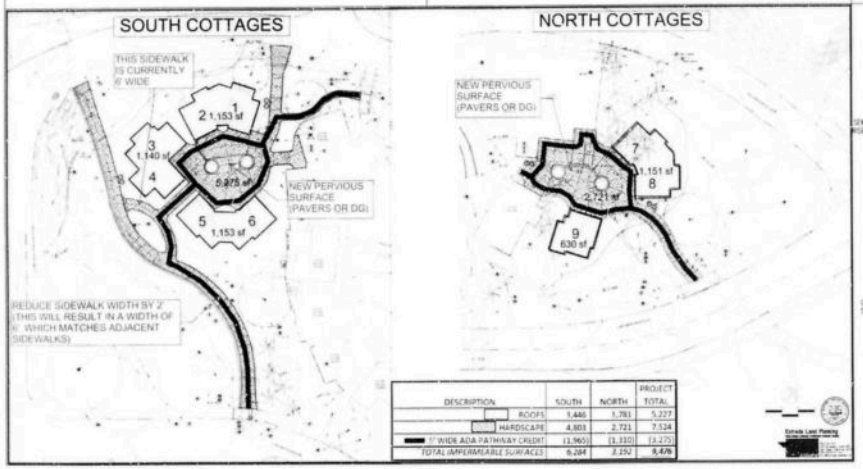
Carl Fiorica — Civil Engineer

Name of Owner or Agent (Please Print) — Title

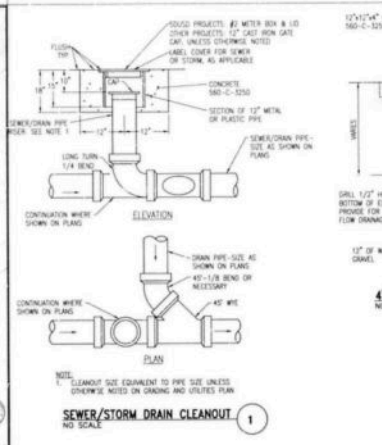
Signature — 11/21/2017 Date

Clear Page 4

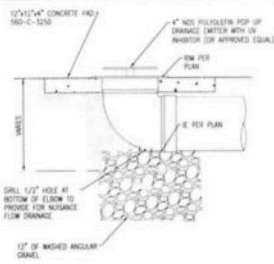
Clear Form



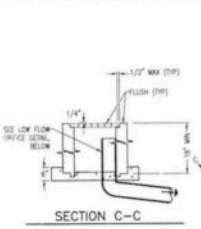
DESCRIPTION	SOUTH	NORTH	PROJECT TOTAL
ROOFS	1,446	1,781	3,227
HARDSCAPE	4,803	2,721	7,524
5' WIDE ADA PATH/BAY CREDIT	(1,965)	(1,330)	(3,295)
TOTAL IMPERMEABLE SURFACES	6,284	3,352	9,456



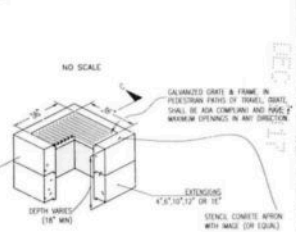
SEWER/STORM DRAIN CLEANOUT 1
NO SCALE

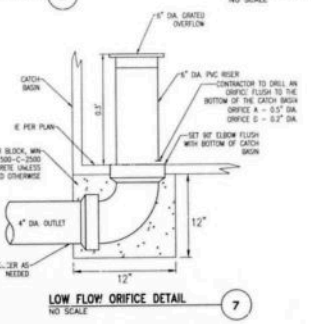


4" POP UP DRAINAGE EMITTER 2
NO SCALE

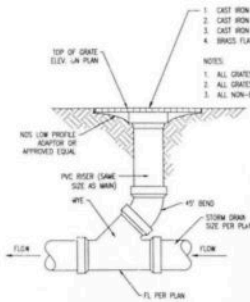


36" PRECAST CATCH BASIN 3
NO SCALE





LOW FLOW ORIFICE DETAIL 7
NO SCALE



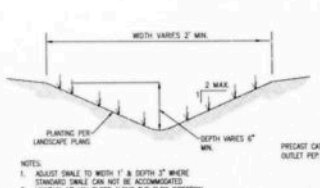
1. CAST IRON FLAT GRATE
2. CAST IRON FLAT GRATE (RATED FOR H-20 LOADING)
3. CAST IRON ATRIUM GRATE
4. BRASS FLAT GRATES

LAWN AREAS
PAVED AREAS
OTHER PLANTING AREAS
HARDSCAPE AREAS

NOTES:
1. ALL GRATES SHALL BE VANDAL PROOF IN TWO PLACES
2. ALL GRATES IN PAVED AREAS SHALL COMPLY WITH CURRENT ADA SPECIFICATIONS
3. ALL NON-BRASS GRATES SHALL BE GALVANIZED.

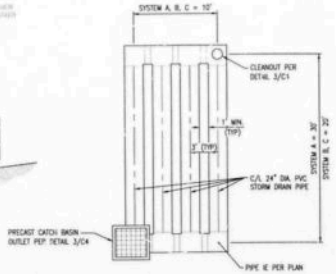
12" AREA DRAIN 4
NO SCALE

APPROVED
DEC 15 2017



NOTES:
1. ADJUST SWALE TO WIDTH 1' & DEPTH 3" WHERE STANDARD SWALE CAN NOT BE ACCOMMODATED
2. MAINTAIN 1% MIN SLOPE ALONG THE FLOW DIRECTION

VEGETATED SWALE 5
NO SCALE



PIPE DETENTION SYSTEM 6
NO SCALE

DECLARATION OF RESPONSIBLE CHARGE:

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF THE PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

NAME OF ENGINEERING COMPANY: BWE, INC
BY: CARL M FIORICA
R.C.E. 64715 EXP. 08/30/2019
DATE: 12/11/17

ADDRESS OF ENGINEERING COMPANY: 9449 BALBOA AVE STE 270, SAN DIEGO, CA 92123, PHONE: (619) 299-3500, email: CFIORICA@BWESD.COM

BWE
CIVIL • STRUCTURAL • SURVEY • PLANNING
9449 BALBOA AVE, STE 270
SAN DIEGO, CA 92123 619.299.1515

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

SHEET TITLE: DETAILS (COTTAGES 1 THROUGH 9)
2180 PAN AMERICAN ROAD

SHEET NUMBER: C4

LAMBERT COORDINATES: 204-1721 THOMAS BROTHERS PAGE: 60. D-6

(PSD #)

09-10-17

DECLARATION OF RESPONSIBLE CHARGE:

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF THE PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

NAME OF ENGINEERING COMPANY	ADDRESS OF ENGINEERING COMPANY
BWE, INC.	9449 BALBOA AVE., STE 270
BY: CARL M. FIORICA	SAN DIEGO, CA 92123
R.C.E. 64715 EXP. 06/30/2019	PHONE: (619) 299-5550
DATE: 12/11/17	email: CFIORICA@BWESD.COM

ACCESSIBILITY NOTES:

1. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE SURFACE.
2. DETECTABLE WARNING SURFACE SHALL BE YELLOW CONFORMING TO 33538 OF FEDERAL STANDARD 595C.
3. ONLY APPROVED DSA-AC DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE INSTALLED AS PROVIDED IN THE CALIFORNIA CODE OF REGULATIONS (CCR), TITLE 24, PART 1, CHAPTER 5, ARTICLE 2, 3 AND 4.

I AM THE DESIGNER/OWNER IN RESPONSIBLE CHARGE OF THIS TENANT IMPROVEMENT PROJECT. I HAVE INSPECTED THE SITE/PREMISES AND DETERMINED THE EXISTING CONDITIONS ARE IN FULL COMPLIANCE WITH CURRENT SITE ACCESSIBILITY REQUIREMENTS TO THE EXTENT REQUIRED BY LAW.

PRINT NAME: CARL M FIORICA SIGNATURE: _____ DATE: 12/11/17

IF THE CITY BUILDING INSPECTOR DETERMINES NON-COMPLIANT, WITH ANY ACCESSIBILITY PROVISIONS, A COMPLETE AND DETAILED REVISED PLANS CLEARLY SHOWING ALL EXISTING NON-COMPLYING CONDITIONS AND THE PROPOSED MODIFICATIONS TO MEET CURRENT ACCESSIBILITY REQUIREMENTS (INCLUDING SITE PLAN, FLOOR PLANS, DETAILS, ETC.) WILL BE SUBMITTED TO THE DEPARTMENT FOR REVIEW AND APPROVAL.

BWE
CIVIL • STRUCTURAL • SURVEY • PLANNING
9449 BALBOA AVE, STE 270
SAN DIEGO, CA 92123 619.299.5550

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

SHEET TITLE	SHEET NUMBER
SITE ACCESSIBILITY PLAN (COTTAGES 1 THROUGH 9)	C5
2180 PAN AMERICAN ROAD	(PSD #)

LAMBERT COORDINATES: 204-1721 THOMAS BROTHERS PAGE: 50, D-6

09-10-17

DEMOLITION LEGEND

NUM.	DESCRIPTION	SYMBOL
1	REMOVE EXISTING TREE.	
2	REMOVE EXISTING PALM TREE.	
3	REMOVE EXISTING SHRUBS.	
4	REMOVE AND RECYCLE EXISTING CONCRETE PAVING. SAWCUT AS REQUIRED TO ALLOW FOR PAVING REMOVAL – TO NEAREST CONCRETE JOINT.	
5	REMOVE EXISTING CONCRETE RAMP AND [illegible]	
6	REMOVE EXISTING IRRIGATION LATERALS, PIPING, VALVE, ETC.	
7	REMOVE EXISTING MOW CURB.	
8	REMOVE AND SALVAGE EXISTING BENCH (RETURN TO P&R STAFF) AND REMOVE CONCRETE FOOTING.	
9	EXISTING IRRIGATION TO REMAIN – PROTECT IN PLACE.	
10	EXISTING TREE / SHRUBS TO REMAIN – PROTECT IN PLACE.	
11	EXISTING PALM TREE TO REMAIN – PROTECT IN PLACE.	
12	EXISTING CONCRETE CURB TO REMAIN – PROJECT IN PLACE.	
13	EXISTING CONCRETE PAVING TO REMAIN – PROTECT IN PLACE.	SEE PLANS
14	EXISTING CONCRETE DRAINAGE OUTFALL TO REMAIN – PROTECT IN PLACE.	SEE PLANS
15	EXISTING HISTORIC CONCRETE STAIRCASES TO REMAIN – PROTECT IN PLACE. NO MODIFICATIONS ALLOWED.	SEE PLANS
16	EXISTING MOW CURB TO REMAIN – PROTECT IN PLACE.	
17	EXISTING UTILITIES TO REMAIN – PROTECT IN PLACE. ADJUST TO NEW GRADES.	SEE PLANS
18	EXISTING UTILITY TO REMAIN – PROTECT IN PLACE.	SEE PLANS
19	EXISTING ELECTRICAL UTILITIES TO REMAIN. SEE DRY UTILITY PLANS.	SEE PLANS
20	EXIS[illegible]NT TO REMAIN – PROTECT IN PLACE.	SEE PLANS
21	EXISTING SIGN TO REMAIN – PROTECT IN PLACE.	SEE PLANS
22	EXISTING MONUMENT TO REMAIN – PROTECT IN PLACE, OR SALVAGE AND RELOCATE AS NOTED ON PLANS.	SEE PLANS
23	SALVAGE AND RELOCATE EXISTING PALM TREE. SEE PLANTING PLAN (SHEETS L-9 AND L-10) FOR NEW LOCATION.	
24	SALVAGE AND RELOCATE EXISTING SIGN. SEE CONSTRUCTION PLAN FOR NEW LOCATION.	SEE PLANS
25	SALVAGE AND RELOCATE EXISTING LITTER / RECYCLE RECEPTACLES.	

IRRIGATION NOTE

ALL LANDSCAPE AND IRRIGATION PLANS SHALL CONFORM WITH THE CITY OF SAN DIEGO LANDSCAPE STANDARDS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

1. LATERAL RUNS OF EXISTING IRRIGATION SYSTEMS ARE UNKNOWN AS NO ASBUILTS EXIST FOR MANY AREAS. CONTRACTOR SHALL REMOVE IRRIGATION SYSTEMS WITHIN THE LIMITS OF WORK SHOWN. HOWEVER CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE PORTIONS OF IN USE LATERALS IN THOSE AREAS OUTSIDE OF TREE DRIPLINES AND TO RECONNECT TO SYSTEMS TO REMAIN, LEAVING ALL PORTIONS OF SYSTEMS FULLY OPERABLE TO THE SATISFACTION OF THE CITY.

0 10 20 30

SCALE: 1" = 10'

SEE SHEET L-3 AND L-4 FOR CONSTRUCTION PLAN (COTTAGES 1-6) AND (COTTAGES 7-9).

SEE SPECIFICATIONS AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

RECEIVED LANDSCAPE ARCHITECT REGISTRATION BOARD No. 1895 RICHARD ESTRADA 08/11/2017 STATE OF CALIFORNIA

Estrada Land Planning
Urban Design Landscape Architecture Computer Imaging
619.236.0143
225 Broadway, Suite 1810
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

SHEET TITLE: DEMOLITION PLAN (COTTAGES 1-6)

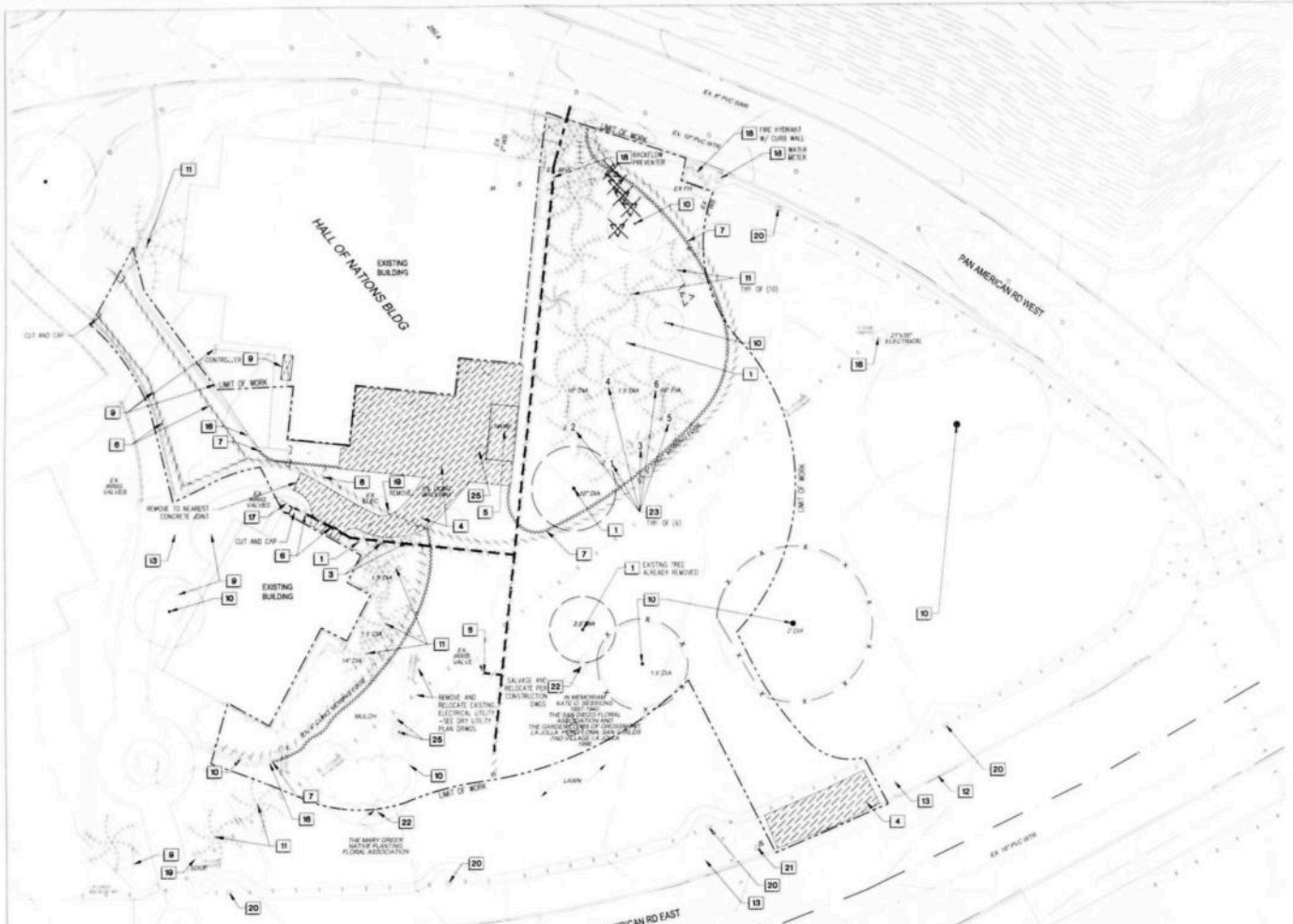
SHEET NUMBER: L-1

LAMBERT COORDINATES:

THOMAS BROTHERS PAGE:

(PSD #)

PRINTED DATE: 2017.12.11



DEMOLITION LEGEND

NUM.	DESCRIPTION	SYMBOL
1	REMOVE EXISTING TREE.	
2	REMOVE EXISTING PALM TREE.	
3	REMOVE EXISTING SHRUBS.	
4	REMOVE AND RECYCLE EXISTING CONCRETE PAVING. SAWCUT AS REQUIRED TO ALLOW FOR PAVING REMOVAL - TO NEAREST CONCRETE JOINT.	
5	REMOVE EXISTING CONCRETE RAMP AND HANDRAILS.	
6	REMOVE EXISTING IRRIGATION LATERALS, PIPING, VALVE, ETC.	
7	REMOVE EXISTING MOW CURB.	
8	REMOVE AND SALVAGE EXISTING BENCH (RETURN TO P&R STAFF) AND REMOVE CONCRETE FOOTING.	
9	EXISTING IRRIGATION TO REMAIN - PROTECT IN PLACE.	
10	EXISTING TREE / SHRUBS TO REMAIN - PROTECT IN PLACE.	
11	EXISTING PALM TREE TO REMAIN - PROTECT IN PLACE.	
12	EXISTING CONCRETE CURB TO REMAIN - PROTECT IN PLACE.	
13	EXISTING CONCRETE PAVING TO REMAIN - PROTECT IN PLACE.	SEE PLANS
14	EXISTING CONCRETE DRAINAGE OUTFALL TO REMAIN - PROTECT IN PLACE.	SEE PLANS
15	EXISTING HISTORIC CONCRETE STAIRCASES TO REMAIN - PROTECT IN PLACE. NO MODIFICATIONS ALLOWED.	SEE PLANS
16	EXISTING MOW CURB TO REMAIN - PROTECT IN PLACE.	
17	EXISTING UTILITIES TO REMAIN - PROTECT IN PLACE. ADJUST TO NEW GRADES.	SEE PLANS
18	EXISTING UTILITY TO REMAIN - PROTECT IN PLACE.	SEE PLANS
19	EXISTING ELECTRICAL UTILITIES TO REMAIN. SEE DRY UTILITY PLANS.	SEE PLANS
20	EXISTING LIGHT TO REMAIN - PROTECT IN PLACE.	SEE PLANS
21	EXISTING SIGN TO REMAIN - PROTECT IN PLACE.	SEE PLANS
22	EXISTING MONUMENT TO REMAIN - PROTECT IN PLACE, OR SALVAGE AND RELOCATE AS NOTED ON PLANS.	SEE PLANS
23	SALVAGE AND RELOCATE EXISTING PALM TREE. SEE PLANTING PLAN (SHEETS L-9 AND L-10) FOR NEW LOCATION.	#
24	SALVAGE AND RELOCATE EXISTING SIGN. SEE CONSTRUCTION PLAN FOR NEW LOCATION.	SEE PLANS
25	SALVAGE AND RELOCATE EXISTING LITTER / RECYCLE RECEPTACLES.	

IRRIGATION NOTE

ALL LANDSCAPE AND IRRIGATION PLANS SHALL CONFORM WITH THE CITY OF SAN DIEGO LANDSCAPE STANDARDS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

1. LATERAL RUNS OF EXISTING IRRIGATION SYSTEMS ARE UNKNOWN AS NO ASBUILTS EXIST FOR MANY AREAS. CONTRACTOR SHALL REMOVE IRRIGATION SYSTEMS WITHIN THE LIMITS OF WORK SHOWN. HOWEVER CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE PORTIONS OF IN USE LATERALS IN THOSE AREAS OUTSIDE OF TREE DRIPLINES AND TO RECONNECT TO SYSTEMS TO REMAIN, LEAVING ALL PORTIONS OF SYSTEMS FULLY OPERABLE TO THE SATISFACTION OF THE CITY.

0 10 20 30

SCALE: 1" = 10'

SEE SHEET L-3 AND L-4 FOR CONSTRUCTION PLAN (COTTAGES 1-6) AND (COTTAGES 7-9).

SEE SPECIFICATIONS AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

Estrada Land Planning
Urban Design Landscape Architecture Computer Imaging
619.236.0343
225 Broadway, Suite 1900
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

SHEET TITLE: DEMOLITION PLAN (COTTAGES 7-9)

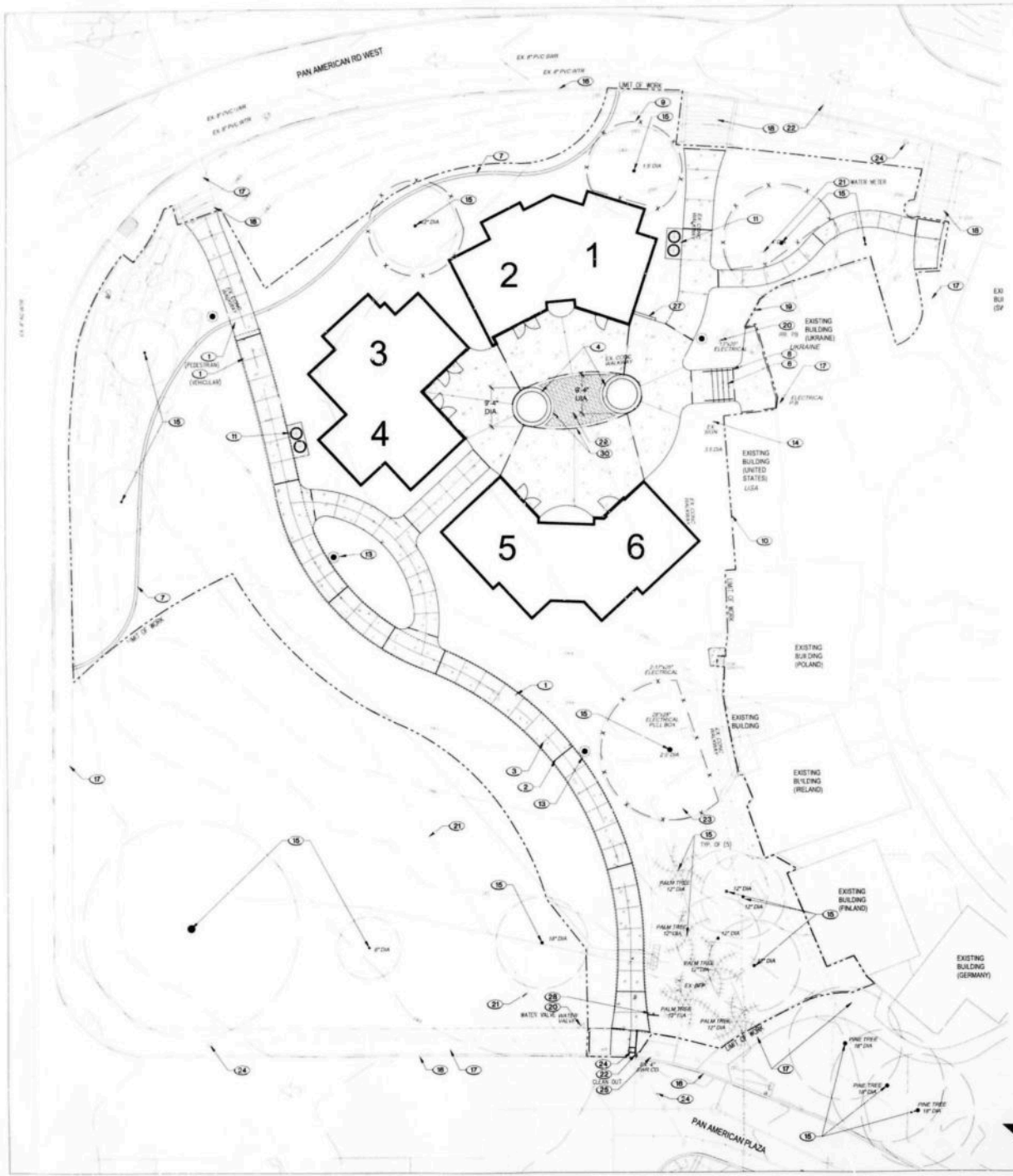
SHEET NUMBER: L-2

LAMBERT COORDINATES:

THOMAS BROTHERS PAGE:

(PSD #)

PRINTED DATE: 2017-12-11



CONSTRUCTION LEGEND

NUM.	DESCRIPTION	SYMBOL	REFERENCE
1	CONSTRUCT 4.5" THICK CONCRETE PAVING (PEDESTRIAN), 6" THICK (VEHICULAR) WHERE SHOWN, SAN DIEGO BUFF BY DAVIS, SALT FINISH W/ LIGHT BROOM FINISH, JOINTING AS SHOWN ON PLAN.		A / L-5
2	CONSTRUCT EXPANSION JOINT WITH DOWELS WHERE INDICATED ON PLAN.		C / L-5
3	CONSTRUCT CONTROL JOINT WHERE INDICATED ON PLAN.		B / L-5
4	CONSTRUCT MASONRY UNIT RAISED PLANTER WITH WALL CAPS (12-INCH WIDE), HT. PER GRADING PLANS.		D / L-5
5	CONSTRUCT DECORATIVE WALL WITH WALL CAPS (16-INCH WIDE), HT. PER GRADING PLANS.		G-H / L-5
6	CONSTRUCT CONCRETE STEPS.		SDM-118
7	CONSTRUCT FLUSH MOW CURB, 6"WIDE x 6"DEPTH.		SDL-103, TYPE A
8	CONSTRUCT HANDRAILS AT STEPS W/ SKATE DETERRENTS; HANDRAILS TO MATCH EX. HISTORIC METALWORK.		SDM-118, J / L-5
9	TREE PROTECTION FENCING	— x —	SEE PLANS
10	LIMITS OF WORK	— — —	SEE PLANS
11	INSTALL RELOCATED LITTER AND RECYCLE RECEPTACLES; CONSTRUCT NEW CONCRETE PAD PER ITEM 1 ABOVE.		SEE PLANS AND SPECS.
12	RELOCATE KATE SESSIONS MEMORIAL PLAQUE.		SEE PLANS
13	INSTALL LIGHTING STANDARDS WITH FOOTINGS, PULL BOXES, AND CONDUITING PER ELECTRICAL PLANS.		SEE ELECTRICAL PLANS
14	REINSTALL SALVAGED SIGN / POST.		SEE PLANS AND SPECS.
15	EXISTING TREE / PALM TREE TO REMAIN – PROTECT IN PLACE.		SEE PLANS
16	EXISTING CONCRETE CURB – PROTECT IN PLACE.		SEE PLANS
17	EXISTING SIDEWALK – PROTECT IN PLACE.		SEE PLANS
18	EXISTING CONCRETE STAIRS – PROTECT IN PLACE.		SEE PLANS
19	EXISTING MOW CURB OR WALL – PROTECT IN PLACE.		SEE PLANS
20	EXISTING UTILITIES – PROTECT IN PLACE.	SEE PLAN FOR SYMB.	SEE PLANS
21	EXISTING WATER LINE – PROTECT IN PLACE.	W	SEE PLANS
22	EXISTING SEWER LINE – PROTECT IN PLACE.	S	SEE PLANS
23	EXISTING ELECTRIC LINE – PROTECT IN PLACE.	E	SEE PLANS
24	EXISTING STREET LIGHTS, ELECTRIC LINE – PROTECT IN PLACE.	SL	SEE PLANS
25	EXISTING PEDESTRIAN RAMP – PROTECT IN PLACE.	SEE PLANS	SEE PLANS
26	ADJUST EXISTING UTILITIES BOX TO GRADE		SEE PLANS
27	CUASTOM ACCENT WALL		E / L-5
28	ADA SIGN		I / L-5
29	PERMEABLE CONCRETE PAVING		F / L-5
30	CONCRETE CURB, 8"X12" DEPTH, CONTINUOUS AT PERIMETER OF PERMEABLE PAVING, TYP. PROVIDE THICKENED EDGE AT CONCRETE PAVING		F / L-5

SDSD = SAN DIEGO STANDARD DRAWINGS SDRSD = SAN DIEGO REGIONAL STANDARD DRAWINGS

0 10 20 30

SCALE: 1" = 10'

SEE SHEET L-5 FOR CONSTRUCTION DETAILS

SEE SPECIFICATIONS AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

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CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

SHEET TITLE: CONSTRUCTION PLAN (COTTAGES 1-6)

SHEET NUMBER: L-3

LAMBERT COORDINATES:

THOMAS BROTHERS PAGE: (PSD #)

PRINTED DATE: 2017-12-11

CONSTRUCTION LEGEND

NUM.	DESCRIPTION	SYMBOL	REFERENCE
1	CONSTRUCT 4.5" THICK CONCRETE PAVING (PEDESTRIAN), 6" THICK (VEHICULAR) WHERE SHOWN, "SAN DIEGO BUFF" BY DAVIS, SALT FINISH W/ LIGHT BROOM FINISH, JOINTING AS SHOWN ON PLAN.		A / L-5
2	CONSTUCT EXPANSION JOINT WITH DOWELS WHERE INDICATED ON PLAN.		C / L-5
3	CONSTRUCT CONTROL JOINT WHERE INDICATED ON PLAN.		B / L-5
4	CONSTRUCT MASONRY UNIT RAISED PLANTER WITH WALL CAPS (12-INCH WIDE), HT. PER GRADING PLANS.		D / L-5
5	CONSTRUCT DECORATIVE WALL WITH WALL CAPS (16-INCH WIDE), HT. PER GRADING PLANS.		D-H / L-5
6	CONSTRUCT CONCRETE STEPS.		SDM-118
7	CONST. ... +/-6"H x6"W CURB, 8"WIDE x 6"DEPTH.		SDL-103, TYPE A
8	CONSTRUCT HANDRAILS AT STEPS W/ SKATE DETERRENTS. HANDRAILS TO MATCH EX. HISTORIC METALWORK.		SDM-118, J / L-5
9	TREE PROJECTION FENCING	— X —	SEE PLANS
10	LIMITS OF WORK	— - - —	SEE PLANS
11	INSTALL RELOCATED LITTER AND RECYCLE RECEPTACLES, CONSTRUCT NEW CONCRETE PAD PER ITEM 1 ABOVE.		SEE PLANS AND SPECS.
12	RELOCATE KATE SESSIONS MEMORIAL PLAQUE.		SEE PLANS
13	INSTALL LIGHTING STANDARDS WITH FOOTINGS, PULL BOXES, AND CIRCUITING PER ELECTRICAL PLANS.		SEE ELECTRICAL PLANS
14	REINSTALL SALVAGED SIGN / POST.		SEE PLANS AND SPECS
15	EXISTING TREE / PALM TREE TO REMAIN – PROTECT IN PLACE.		SEE PLANS
16	EXISTING CONCRETE CURB – PROTECT IN PLACE.		SEE PLANS
17	EXISTING SIDEWALK – PROTECT IN PLACE.		SEE PLANS
18	EXISTING CONCRETE STAIRS – PROTECT IN PLACE.		SEE PLANS
19	EXISTING MOW CURB OR WALL – PROTECT IN PLACE.		SEE PLANS
20	EXISTING UTILITIES – PROTECT IN PLACE.	SEE PLAN FOR SYMB.	SEE PLANS
21	EXISTING WATER LINE – PROTECT IN PLACE.		SEE PLANS
22	EXISTING SEWER LINE – PROTECT IN PLACE.		SEE PLANS
23	EXISTING ELECTRIC LINE – PROTECT IN PLACE.		SEE PLANS
24	EXISTING STREET LIGHTS, ELECTRIC LINE – PROTECT IN PLACE.		SEE PLANS
25	EXISTING PEDESTRIAN RAMP – PROTECT IN PLACE.	SEE PLANS	SEE PLANS
26	ADJUST EXISTING UTILITIES BOX TO GRADE.		SEE PLANS
27	CONSTRUCT ACCENT WALL		E / L-5
28	ADA SIGN		I / L-5
29	PERMEABLE CONCRETE PAVING		F / L-5
30	CONCRETE CURB, 8"X12" DEPTH, CONTINUOUS AT PERIMETER OF PERMEABLE PAVING, TYP. PROVIDE THICKENED EDGE AT CONCRETE PAVING		F / L-5

SDSD = SAN DIEGO STANDARD DRAWINGS SDRSD = SAN DIEGO REGIONAL STANDARD DRAWINGS

0 10 20 30
SCALE: 1" = 10'

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CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

SHEET TITLE: CONSTRUCTION PLAN (COTTAGES 7-9)

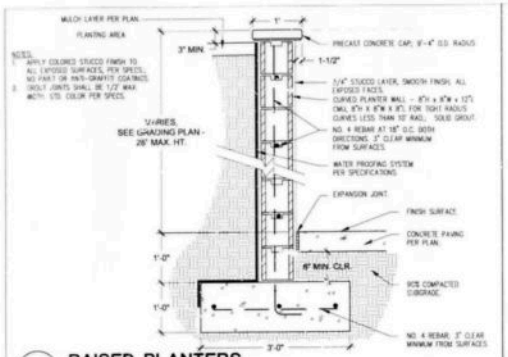
SHEET NUMBER: L-4

LAMBERT COORDINATES:

THOMAS BROTHERS PAGE:

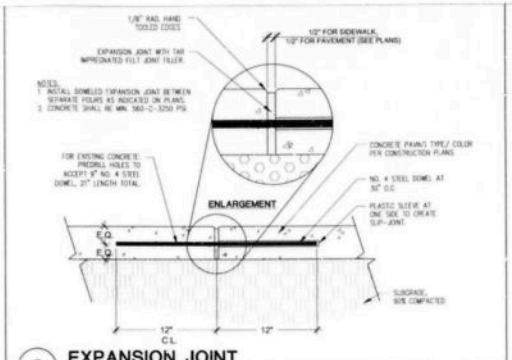
(PSD #)

PRINTED DATE: 2017.12.11



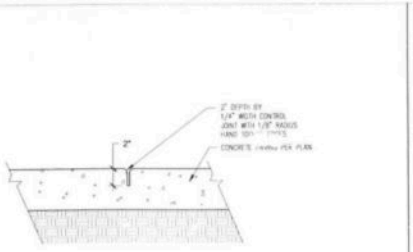
D RAISED PLANTERS

SCALE: N.T.S.



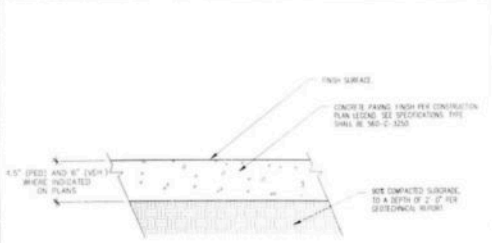
C EXPANSION JOINT

SCALE: N.T.S.



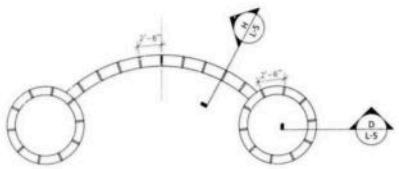
B CONTROL JOINT

SCALE: N.T.S.



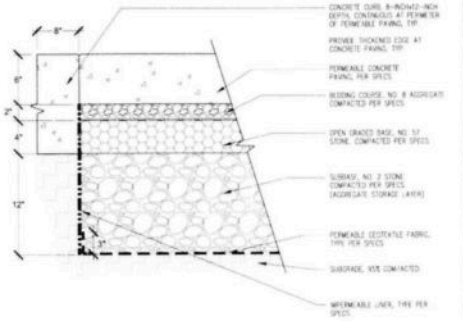
A CONCRETE PAVING

SCALE: N.T.S.



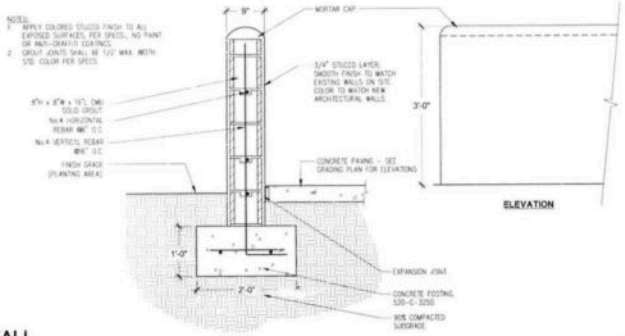
G DECORATIVE WALL CAP (WITH DETERRENT RECESSES) LAYOUT

SCALE: N.T.S.



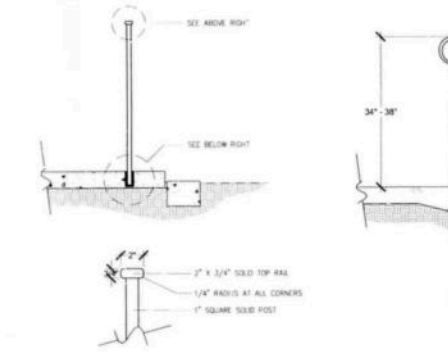
F PERMEABLE PAVING

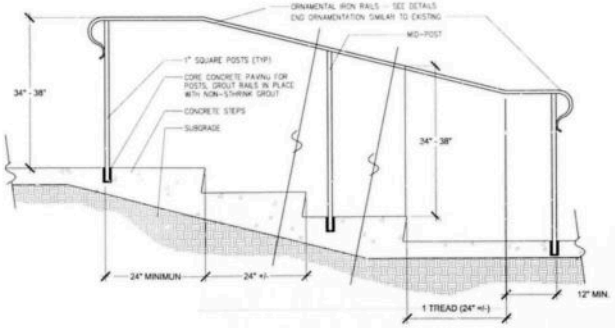
SCALE: N.T.S.



E ACCENT WALL

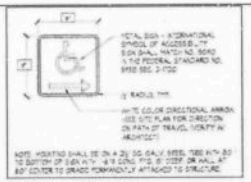
SCALE: N.T.S.





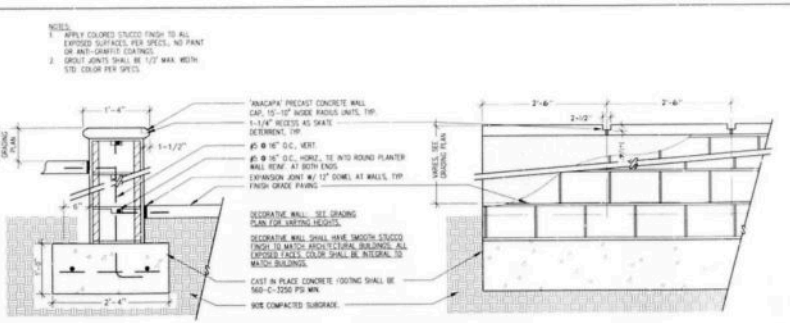
J HAND RAIL

SCALE: N.T.S.



I DIRECTIONAL SIGN

SCALE: N.T.S.



H DECORATIVE WALL

SCALE: N.T.S.

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CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

CONSTRUCTION DETAILS

SHEET TITLE:

L-5

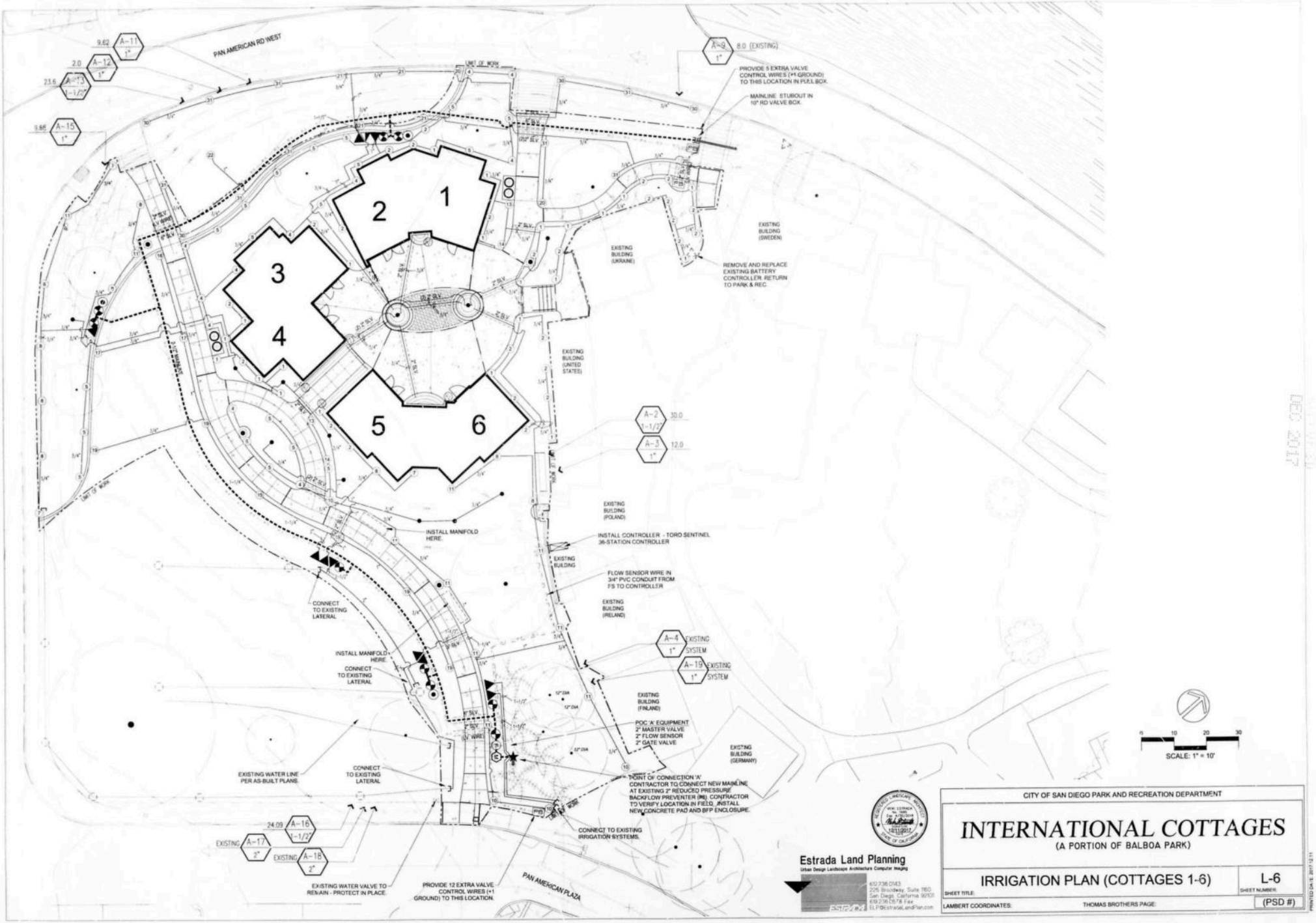
SHEET NUMBER:

LAMBERT COORDINATES:

THOMAS BROTHERS PAGE:

(PSD #)

PRINTED DATE: 2017-12-11



CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

IRRIGATION PLAN (COTTAGES 1-6)

SHEET TITLE:

L-6

SHEET NUMBER:

LAMBERT COORDINATES:

THOMAS BROTHERS PAGE:

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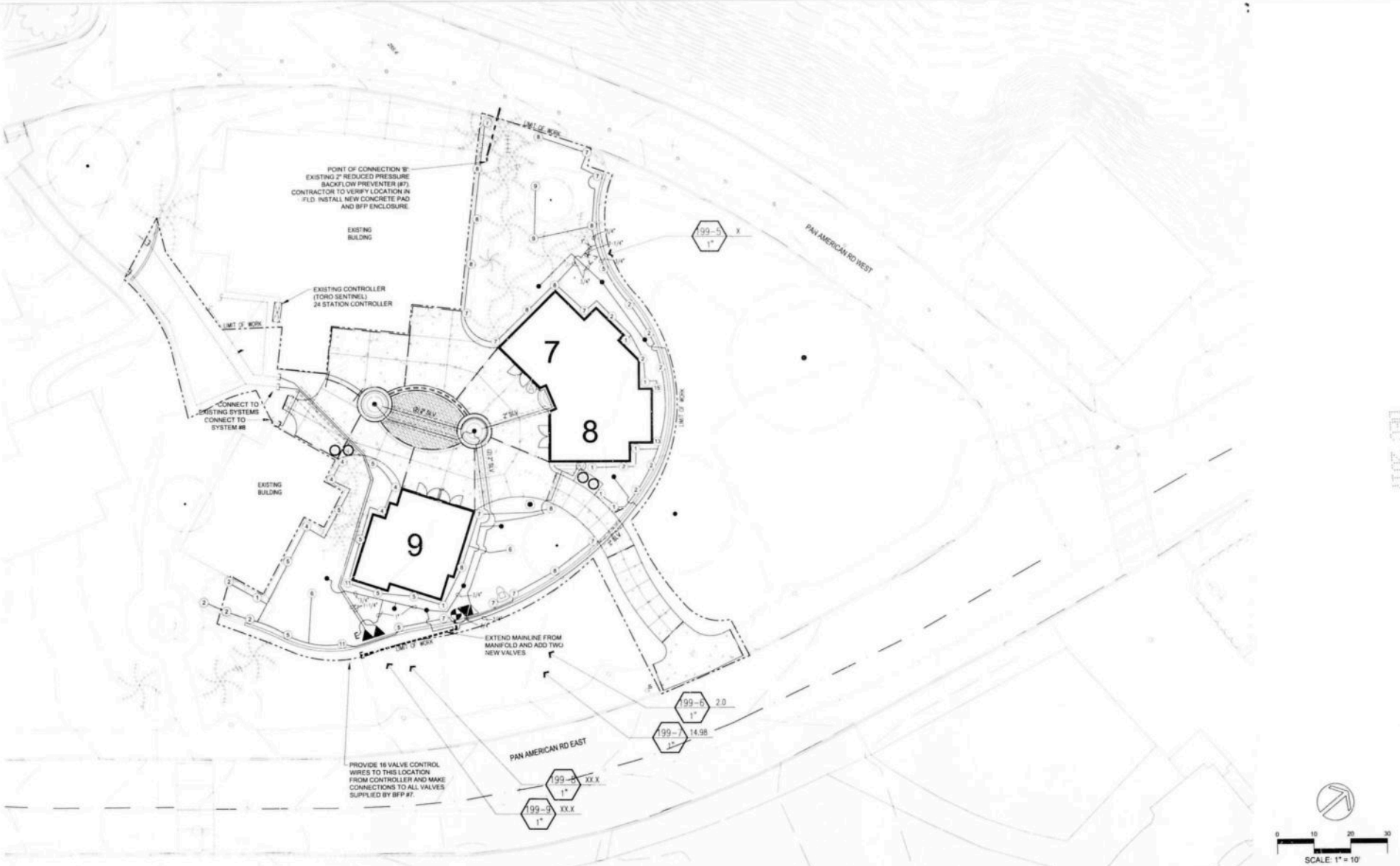

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CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

SHEET TITLE: IRRIGATION PLAN (COTTAGES 7-9)

SHEET NUMBER: L-7

LAMBERT COORDINATES:

THOMAS BROTHERS PAGE:

(PSD #)

PRINTED DATE: 2017.12.11

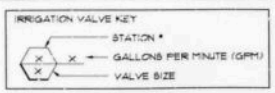
IRRIGATION LEGEND

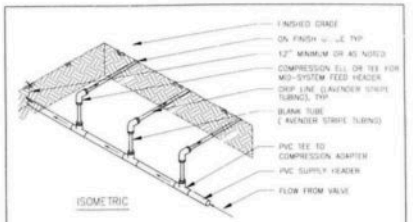
SYMBOL	MFG. -	IRRIGATION COMPONENT DESCRIPTION	MODEL/PART NO.	MAX. RAD.	PRECIP. RATE	PSI	GPM	DETAIL REF.
1	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP8008SR-90 (BOD	8'	Ø.96	40	16	SDI-103
2	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP8008SR-180 (BODY+PROS-12-PRS40-CV-SHRUB)	8'	Ø.93	40	32	SDI-103
3	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP8008SR-360 (BODY+PROS-12-PRS40-CV-SHRUB)	8'	Ø.91	40	56	SDI-103
4	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP1000-90 (BODY+PROS-12-PRS40-CV-SHRUB)	14'	Ø.45	40	19	SDI-103
5	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP1000-180 (BODY+PROS-12-PRS40-CV-SHRUB)	14'	Ø.45	40	37	SDI-103
6	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP1000-360 (BODY+PROS-12-PRS40-CV-SHRUB)	14'	Ø.45	40	78	SDI-103
7	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP2000-90 (BODY+PROS-12-PRS40-CV-SHRUB)	20'	Ø.44	40	40	SDI-103
8	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP2000-180 (BODY+PROS-12-PRS40-CV-SHRUB)	19'	Ø.45	40	74	SDI-103
9	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP2000-360 (BODY+PROS-12-PRS40-CV-SHRUB)	19'	Ø.45	40	147	SDI-103
10	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP3000-90 (BODY+PROS-12-PRS40-CV-SHRUB)	30'	Ø.43	40	86	SDI-103
11	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP3000-180 (BODY+PROS-12-PRS40-CV-SHRUB)	30'	Ø.45	40	182	SDI-103
12	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP3000-360 (BODY+PROS-12-PRS40-CV-SHRUB)	30'	Ø.45	40	364	SDI-103
13	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MPLCS515 (BODY+PROS-12-PRS40-CV-SHRUB)	5'x15'	--	45	22	SDI-103
14	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MPRCS515 (BODY+PROS-12-PRS40-CV-SHRUB)	5'x15'	--	45	22	SDI-103
15	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP5530 (BODY+PROS-12-PRS40-CV-SHRUB)	5'x30'	--	45	44	SDI-103
16	HUNTER	ROTOR ON 6" POP-UP BODY	I-20-06-55-2.0 (TURF)	34'	38	45	2.0	SDI-103
17	HUNTER	ROTOR ON 6" POP-UP BODY	I-20-06-55-4.0 (TURF)	40'	46	45	4.0	SDI-103
18	HUNTER	ROTOR ON 6" POP-UP BODY	I-20-06-55-4.0 (TURF)	40'	46	45	4.0	SDI-103
19	HUNTER	ROTOR ON 6" POP-UP BODY	I-25-06-55-3.8 (TURF)	35'	46	45	4.0	SDI-103
20	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP2000-90 (BODY+PROS-06-PRS40-CV-TURF)	20'	Ø.44	40	40	SDI-103
21	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP2000-180 (BODY+PROS-06-PRS40-CV-TURF)	19'	Ø.45	40	74	SDI-103
22	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP2000-360 (BODY+PROS-06-PRS40-CV-TURF)	19'	Ø.45	40	147	SDI-103
30	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP3000-90 (BODY+PROS-06-PRS40-CV-TURF)	30'	Ø.43	40	86	SDI-103
31	HUNTER	MP-ROTATOR ON 12" POP-UP BODY	MP3000-180 (BODY+PROS-06-PRS40-CV-TURF)	30'	Ø.45	40	182	SDI-103
	NETAFIM	TECHLINE DRIPPERLINE SYSTEMS	TLDL9-1801					A-C / L-8
	RAINBIRD	TREE BUBBLER (2 PER TREE)	1400 SERIES-1401 (ON 4" POP-UP)	--	--	30	50	SDI-103

SYMBOL	IRRIGATION COMPONENT DESCRIPTION	MFG.	MODEL/PART NO.	REMARKS	DETAIL REF.
★	POINT OF CONNECTION	--	--	SEE IRRIGATION PLAN FOR LOCATION	--
	EXISTING IRRIGATION METER w/ SERVICE LINE	--	--	SEE IRRIGATION PLAN FOR LOCATION	--
	IRRIGATION CONTROLLER UPGRADE IN WALL MOUNT STAINLESS STEEL ENCLOSURE W/ 5 YEAR WARRANTEE BY TORO	TORO	TORO SENTINEL - 36 STATIONS MODEL NO. SB36UPGRD-V2 -V3-I3-TH-CABLE12/6P-ISO-LBRS	CONTACT DARYL GREEN AT GPS FOR UNIT AND INSTALLATION. GREEN PRODUCT SERVICES. (949) 584-731	SDI-118
	EXISTING REDUCED PRESSURE BACKFLOW PREVENTER	FEBCO	EXISTING 2" SIZE	SEE IRRIGATION PLAN FOR LOCATION	--
	INSTALL NEW BACKFLOW PREVENTER ENCLOSURE AND CONCRETE PAD AT BOTH BPP LOCATIONS	STRONGBOX	SMOOTH-TOUCH LOW PROFILE #SBBC-4555 OR SIZE TO FIT	SEE IRRIGATION PLAN FOR LOCATIONS	SDW-155
M	MASTER VALVE	SUPERIOR	MODEL 3100	2" NORMALLY OPEN	SDI-111
F	FLOW SENSOR	BADGER	IR-220 - 2"	INSTALL PER MANUFACTURER'S DIRECTIONS. INSTALL IN 3/4" PVC CONDUIT FROM FLOW SENSOR TO CONTROLLER.	SDI-112
	QUICK COUPLING VALVE	RAINBIRD	44LRC 1" SIZE	ISOLATE FROM MAIN WITH 1" GLOBE VALVE	SDI-105, SDI-125 SDI-126
G.V.	GLOBE VALVE (MANUAL VALVE)	NIBCO	T-235Y	1" SIZE FOR QUICK COUPLING VALVE. THE SAME SIZE AS THE LARGEST REMOTE CONTROL VALVE IN MANIFOLD.	SDI-126 SDI-106
	IRRIGATION REMOTE CONTROL VALVE (R.C.V.)	RAINBIRD	100 EFB-CP SERIES 25 EFB-CP SERIES 150 EFB-CP SERIES	1" ELECTRIC R. C. V. INSTALL IN VALVE BOX 1 1/4" ELECTRIC R. C. V. INSTALL IN VALVE BOX 1 1/2" ELECTRIC R. C. V. INSTALL IN VALVE BOX	SDI-114 SDI-126
NO SYMBOL	ANTI-DRAIN / EXCESSIVE FLOW VALVE	VALCON	ADV-XS	INSTALL AT ALL SPRINKLER HEADS WHERE NEEDED. TO STOP ALL LOW HEAD DRAINAGE AND AS AN ANTI GEYSER DEVICE	SDI-102, SDI-103
	MAIN LINE	---	1 1/2" AND SMALLER SCH. 40 PVC 2" AND LARGER CL.315 PVC	21" BELOW GRADE INSTALL THRUST BLOCKS AT TEES, ANGLES, ELLS	SDI-110 SDW-151
	IRRIGATION LATERAL LINE PIPE (NON-PRESSURE)	---	SCH. 40 PVC	15" BELOW GRADE 18" BELOW GRADE WHEREVER 12" POP-UPS ARE USED.	SDI-110
	IRRIGATION PIPE/CONTROL WIRE SLEEVE	---	SCH. 40 PVC	MIN. 2x DIAM. OF PIPE BEING SLEEVED. MIN. 2" FOR WIRE.	SDI-115
PB	IRRIGATION ELECTRICAL PULL BOX	BROOKS #3HL	CONCRETE PULL BOX	ALL SPLICES SHALL OCCUR IN PULL BOX OR CONTROL VALVE BOXES	SDI-115
	DIRECT BURIAL IRRIGATION ELECTRICAL CONTROL WIRE (LOW VOLTAGE)	---	No. 12 AWG.	CONTROL WIRES SHALL BE PARALLEL TO MAINLINE. CONTROL WIRE SHALL BE INSTALLED IN MIN. 2" DIA. SCH. 40 PVC SLEEVE UNDER PAVING.	SDI-115
	FLOW SENSOR WIRE IN 3/4" CONDUIT	---	---	---	SDI-112
A	DRIP AIR RELEASE VALVE	NETAFIM	TLAVRV - INSTALL IN TREADED PVC TEE AND 6" ROUND VALVE BOX.	INSTALL AT HIGHEST ELEVATION OF EACH SYSTEM AREA AS INDICATED ON THE DRAWINGS.	SDI-128
E	DRIP END FLUSH FAVLE	NETAFIM	TLDSOFMV - INSTALL IN 10" ROUND VALVE BOX.	INSTALL AT THE END OF CIRCUIT.	SDI-129
	DRIP CONTROL VALVE ASSEMBLY. ELECTRIC REMOTE CONTROL VALVE	HUNTER	ICZ-101, INCLUDING 1" ICV IN-LINE ELECTRIC REMOTE CONTROL VALVE, 1" HY100 FILTER SYSTEM, AND 25 PSI PRESSURE REGULATOR, WITH 1" INLET / OUTLET.	INSTALL IN STANDARD RECTANGULAR VALVE BOX.	SDI-127

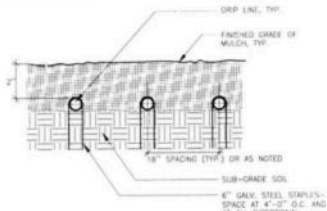
NOTES:
1. CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL ANTI-DRAIN VALVES, AS REQUIRED, TO PREVENT LOW HEAD DRAINAGE.
2. SDRSD - SAN DIEGO REGIONAL STANDARD DRAWINGS, LATEST EDITION.
3. SDSD - SAN DIEGO STANDARD DRAWINGS, LATEST EDITION.

IRRIGATION VALVE KEY

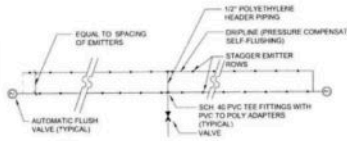




A DRIP SYSTEM FEED HEADERS
SCALE- N.T.S.



B DRIP LINE SUB-GRADE LAYOUT
SCALE- N.T.S.



C IN LINE DRIP EMITTER SYSTEM
SCALE- N.T.S.

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CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

IRRIGATION LEGEND AND DETAILS

SHEET TITLE

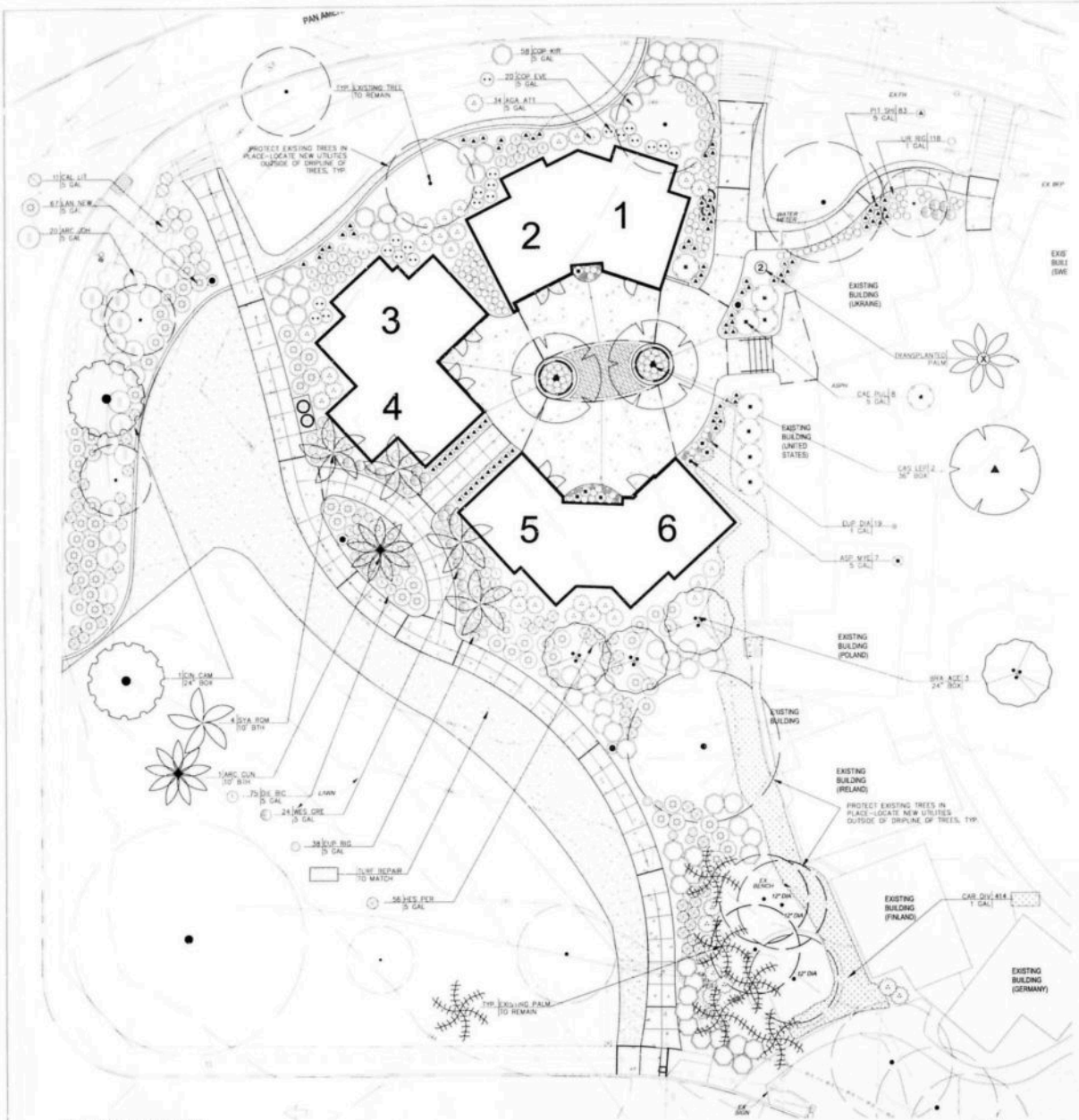
L-8
SHEET NUMBER

LAMBERT COORDINATES:

THOMAS BROTHERS PAGE:

(PSD #)

PRINTED DATE: 2017-12-11



TREE LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	ABBREV.	SIZE	COMMENTS	HT. x SP.	DETAIL
	BRACHYCHITON ACERIFOLIUS	AUSTRALIAN FLAME TREE	BRA ACE	24" BOX	FULL, VIGOROUS, STANDARD FORM	8' X 5'	SDL-101
	CASSIA LEPTOPHYLLA	GOLD MEDALLION TREE	CAS LEP	36" BOX	FULL, VIGOROUS, STANDARD FORM	12' X 6'	SDL-101
	CINNAMOMUM CAMPHORA	CAMPHOR TREE	CIN CAM	24" BOX	FULL, VIGOROUS, STANDARD FORM	10' X 5'	SDL-101
	CUPRESSUS CASHMERIANA	KASHMIR CYPRESS	CUP KAS	24" BOX	FULL, VIGOROUS, STANDARD FORM	8' X 5'	SDL-101
	EXISTING TREE - PROTECT IN PLACE						

PALM LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	ABBREV.	SIZE	COMMENTS	HT. x SP.	DETAIL
	RELOCATED PALM	SEE DEMO PLAN (SHEET L-2) AND RELOCATED PALM LEGEND (THIS SHEET)					
	ARCHONTOPHOENIX CUNNINGHAMIANA	KING PALM	ARC CUN	10' BTH	FULL, VIGOROUS, MULTI-TRUNK	15' X 6'	SDL-107
	RHOPALOSTYLIS SAPIDA	SHAVING BRUSH PALM	RHO SAP	10' BTH	FULL, VIGOROUS, STANDARD FORM	16' X 6'	SDL-107
	ROYSTONEA REGIA	ROYAL PALM	ROY REG	10' BTH	FULL, VIGOROUS, STANDARD FORM	16' X 6'	SDL-107
	SYAGRUS ROMANZOFFIANA	QUEEN PALM	SYA ROM	10' BTH	FULL, VIGOROUS, STANDARD FORM	16' X 6'	SDL-107
	EXISTING PALM - PROTECT IN PLACE						

SHRUB LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	ABBREV.	SIZE	COMMENTS	HT. x SP.	DETAIL
	AGAVE ATTENUATA	FOXTAIL AGAVE	AGA ATT	5 GAL	FULL, VIGOROUS AND HEALTHY	3 X 3	SDL-1,2
	ARCTOSTAPHYLOS 'JOHN DOURLEY'	JOHN DOURLEY MANZANITA	ARC JOH	5 GAL	FULL, VIGOROUS AND HEALTHY	1 X 3	SDL-102
	ASPARAGUS DENSIFLORUS 'MYERS'	FOXTAIL FERN	ASP MYE	5 GAL	FULL, VIGOROUS AND HEALTHY	2 X 2	SDL-102
	CAESALPINIA PULCHERRIMA	RED BIRD OF PARADISE	CAE PUL	5 GAL	FULL, VIGOROUS AND HEALTHY	3 X 3	SDL-102
	CALLISTEMON CITRINUS 'LITTLE JOHN'	DWARF BOTTLEBRUSH	CAL LIT	5 GAL	FULL, VIGOROUS AND HEALTHY	1 X 1.5	SDL-102
	CAREX DIVULSA	BERKELEY SEDGE	CAR DIV	4" POT	18" O.C., FULL, VIGOROUS AND HEALTHY	1 X 1	SDL-102
	COPROSMA X KIRKII	CREEPING MIRROR PLANT	COP KIR	5 GAL	FULL, VIGOROUS AND HEALTHY	1 X 3	SDL-102
	COPROSMA 'EVENING GLOW'	EVENING GLOW MIRROR PLANT	COP EVE	5 GAL	FULL, VIGOROUS AND HEALTHY	3 X 2	SDL-102
	DIETES BICOLOR	FORTNIGHT LILY	DIE BIC	5 GAL	FULL, VIGOROUS AND HEALTHY	2 X 2	SDL-102
	EUPHORBIA HYPERICIFOLIA 'DIAMOND FROST'	DIAMOND FROST	EUP DIA	1 GAL	FULL, VIGOROUS AND HEALTHY	1 X 1	SDL-102
	EUPHORBIA RIGIDA	NARROW-LEAVED GLAUCOUS SPURGE	EUP RIG	5 GAL	FULL, VIGOROUS AND HEALTHY	2 X 2	SDL-102
	HEBE 'PATTY'S PURPLE'	PATTY'S PURPLE HEBE	HEB PAT	5 GAL	FULL, VIGOROUS AND HEALTHY	2 X 2	SDL-102
	HEBE 'WIRI BLUSH'	WIRI BLUSH HEBE	HEB WIR	5 GAL	FULL, VIGOROUS AND HEALTHY	2 X 2	SDL-102
	HESPERALOE PARVIFLORA 'PERPA'	BRAKELIGHTS RED YUCCA	HES PER	5 GAL	FULL, VIGOROUS AND HEALTHY	2 X 2	SDL-102
	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LILY TURF	LIR BIG	1 GAL	FULL, VIGOROUS AND HEALTHY	1 X 1	SDL-102
	LANTANA 'NEW GOLD'	NEW GOLD LANTANA	LAN NEW	5 GAL	FULL, VIGOROUS AND HEALTHY	1 X 3	SDL-102
	PHILODENDRON 'XANADU'	DWARF PHILODENDRON	PHI XAN	5 GAL	FULL, VIGOROUS AND HEALTHY	1 X 3	SDL-102
	PITTOSPORUM TOBIRA 'SHIMA'	CREME DE MINT DWARF MOCKORANGE	PIT SHI	5 GAL	FULL, VIGOROUS AND HEALTHY	1.5 X 1.5	SDL-102
	WESTRINGIA 'GREY BOX'	DWARF COASTAL ROSEMARY	WES GRE	5 GAL	FULL, VIGOROUS AND HEALTHY	2 X 2	SDL-102

GROUNDCOVER LEGEND

SYMBOL	DESCRIPTION	REQUIREMENTS	DETAIL
	BARK MULCH (IN ALL PLANTING AREAS) SHREDDED	3" LAYER DEPTH - SEE SPECIFICATIONS	-
	TURF REPAIR	MATCH EXISTING	-
	ROOT BARRIER	24" DEPTH - AT PA VG EDGE OR BUILDING FOUNDATION, SEE SPECIAL PROVISIONS	SDL-106

RELOCATED PALM LEGEND

NUM	BOTANICAL NAME	COMMON NAME
1	RHOPALOSTYLIS SAPIDA	SHAVING BRUSH PALM
2	SYAGRUS ROMANZOFFIANA	QUEEN PALM
3	CHAMAEDOREA SPP.	--
4	ROYSTONEA REGIA	ROYAL PALM
5	R. YSTONEA REGIA	ROYAL PALM
6	RHOPALOSTYLIS SAPIDA	SHAVING BRUSH PALM

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CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

SHEET TITLE: PLANTING PLAN (COTTAGES 1-6) & LEGEND

SHEET NUMBER: L-9

LAMBERT COORDINATES:

THOMAS BROTHERS PAGE:

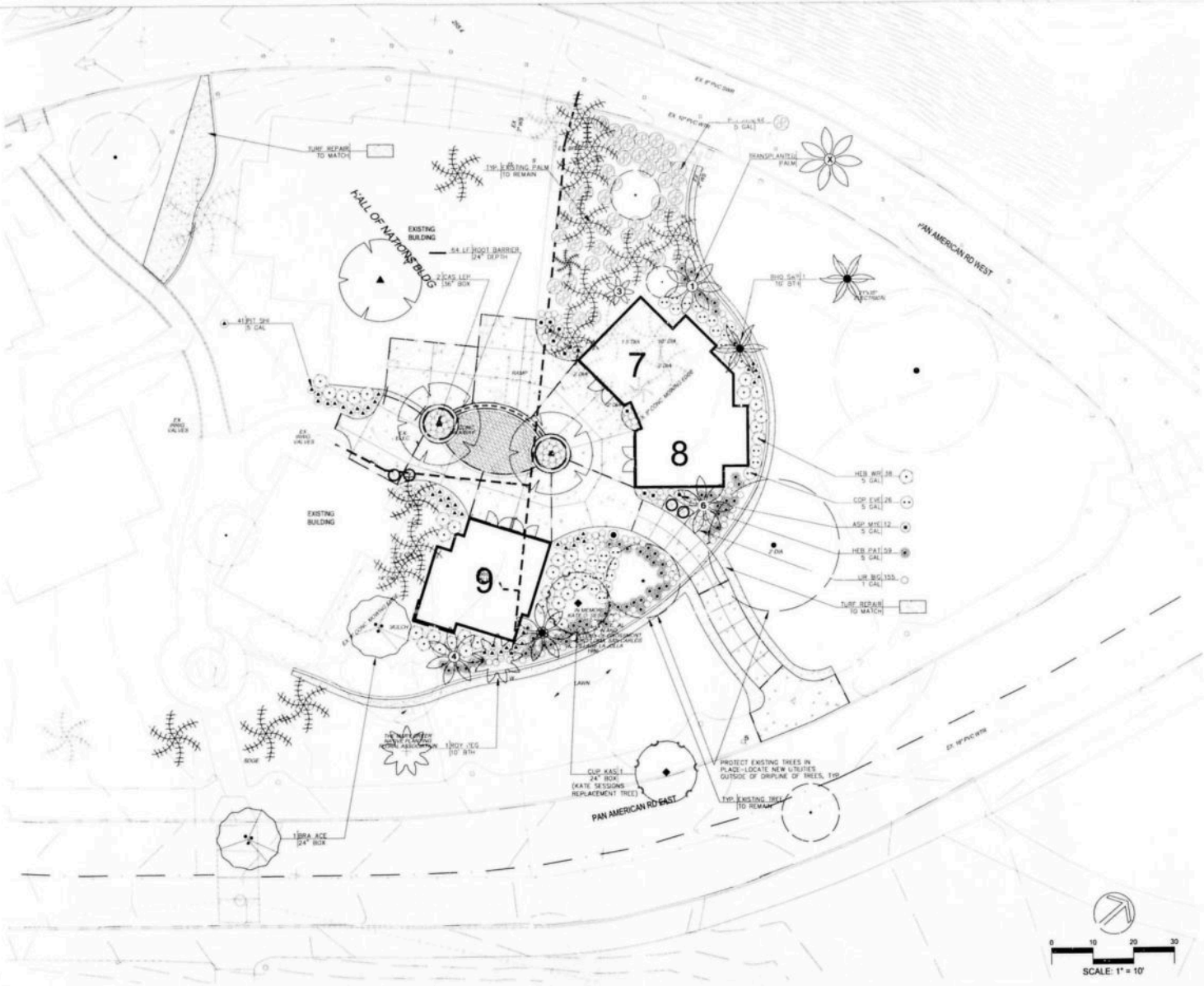
(PSD #)

PRINTED DATE: 2017-12-11

PLANTING NOTES

ALL LANDSCAPE AND IRRIGATION PLANS SHALL CONFORM WITH THE CITY OF SAN DIEGO LANDSCAPE STANDARDS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

1. THE PLANTING PLANS ARE DIAGRAMMATIC. MINOR ADJUSTMENTS IN PLANT LOCATIONS, ORIENTATION, AND TYPE MAY BE MADE AT THE DISCRETION OF THE RESIDENT ENGINEER IN CONSULTATION WITH THE LANDSCAPE ARCHITECT.
2. ALL PLANTING AREAS EXCEPT LAWN AREAS SHALL BE COVERED WITH A MINIMUM OF 3 INCHES OF BARK MULCH.
3. THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE OTHER TRADES AND MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION.
4. THE RESIDENT ENGINEER WILL APPROVE FINAL PLACEMENT AND ORIENTATION OF ALL TREES AND SHRUBS PRIOR TO PLANTING.
5. ALL PLANTS PLANTED FROM CONTAINERS SHALL HAVE THEIR ROOTBALLS SCORED WITH A SHARP TOOL TO A DEPTH OF ONE INCH (1") IN THREE LONGITUDINAL INCISIONS AT LOCATIONS EQUALLY SPACED AROUND THE ROOTBALL BEFORE PLACING PLANT IN HOLE.
6. THE CONTRACTOR SHALL ENSURE THAT PLANTING AREAS RECEIVE PLANTING MATERIAL AS SHOWN ON PLANS.
7. CONTRACTOR SHALL REPLACE IN-KIND ANY EXISTING PLANT MATERIAL DAMAGED DURING CONSTRUCTION.
8. CONTRACTOR SHALL REPAIR ALL TURF AT NEW IRRIGATION PIPE TRENCHING LOCATIONS AS REQUIRED. ALL REPAIRS SHALL BE FLUSH WITH ADJACENT GRADES AND COMPACTED SO AS NOT TO CREATE SETTLING WHEN IRRIGATED. SEE IRRIGATION PLAN FOR NEW SYSTEM LINE LOCATIONS.



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CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

SHEET TITLE:	SHEET NUMBER:
PLANTING PLAN (COTTAGES 7-9) & NOTES	L-10

LAMBERT COORDINATES: | THOMAS BROTHERS PAGE: | (PSD #)

PRINTED DATE: 2017-12-11

SOUTH LOT						
Existing Cottages	**Area**	**Perimeter (P)**	**Length(L)**	**Width (w)**	**L x w**	**Frontage (F)**
House of United States	460	0	0	0	0	0
House of Ukraine	545	17.5	17.5	30	525	17.5
House of Sweden	625	41.5	41.5	26	1079	41.5
		6	6	0	0	0
House of Denmark	580	18	18	24	432	18
		5.5	5.5	0	0	0
		11.5	11.5	24	276	11.5
House of Norway	565	12	12	0	0	0
		4	4	0	0	0
		14	14	0	0	0
		7	7	0	0	0
House of China	550	17	17	22	374	17
		9	9	23	207	9
		14	14	26	364	14
House of Scotland	455	18	18	0	0	0
		6	6	20	120	6
		6	6	0	0	0
		24.5	24.5	26	637	24.5
House of Czech & Slovak	570	14	14	30	420	14
		20.5	20.5	22	451	20.5
		16.5	16.5	25	412.5	16.5
		14	14	0	0	0
House of England	450	10.5	10.5	30	315	10.5
		9	9	0	0	0
		14.5	14.5	30	435	14.5
House of France & Philippines	540	11	11	0	0	0
		14	14	26	364	14
		7.5	7.5	0	0	0
		7.5	7.5	0	0	0
		7.5	7.5	0	0	0
		13	13	26	338	13
		5	5	0	0	0
House of Isreal	540	18	18	30	540	18
		14.5	14.5	30	435	14.5
		7	7	0	0	0
House of Germany	465	9.5	9.5	30	285	9.5
		11	11	0	0	0
		13	13	30	390	13
House of Finland	435	6	6	30	180	6
		7	7	0	0	0
		24	24	30	720	24
House of Ireland	515	3.5	3.5	0	0	0
		18.5	18.5	30	555	18.5
		3.5	3.5	0	0	0
		6	6	30	180	6
House of Poland	525	0	0	0	0	0

Proposed Cottages	**Area**	**Perimeter (P)**	**Length(L)**	**Width (W)**	**L x w**	
Cottages 1/2	1180	73	73	30	2190	73
Cottages 3/4	1185	98.5	98.5	30	2955	98.5
Cottages 5/6	1190	65.5	65.5	30	1965	65.5
TOTALS	**11375**	**774.5**	**774.5**	**760**	**17144.5**	**608.5**

	2013 CBC Equation 5-3 W=(Lx x Wx)/F
(Eq 5-3) (Lx x wx)	**17144.5**
(Eq 5-3) Frontage (F)	**608.5**
(Eq 5-3) Weighted Average (W)	**28.2**
	2013 CBC Equation 5-2 If-[(F/P - 0.25] W/30
(Eq 5-2) Frontage (F)	**608.5**
(Eq 5-2) Perimeter (P)	**774.5**
(Eq5-2) Width (W)	**28.2**
(Eq 5-2) Area increase due to Frontage (If)	**0.50**
	2013 CBC Equation 5-1 Aa = [At + [At x If] + [0]
(Eq 5-1) Tabular Building Area (At)	**9000.00**
(Eq 5-1) Area increase due to Frontage (If)	**0.50**
(Eq 5-1) Allowable Building Area (Aa)	**13527.74**
Total Building Area	**11375.00**
Allowable Building Area	**13527.74**

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SOUTH LOT SITE PLAN

SHEET TITLE:

A0.1

SHEET NUMBER

LAMBERT COORDINATES:204-1721

THOMAS BROTHERS PAGE: 60, D-6

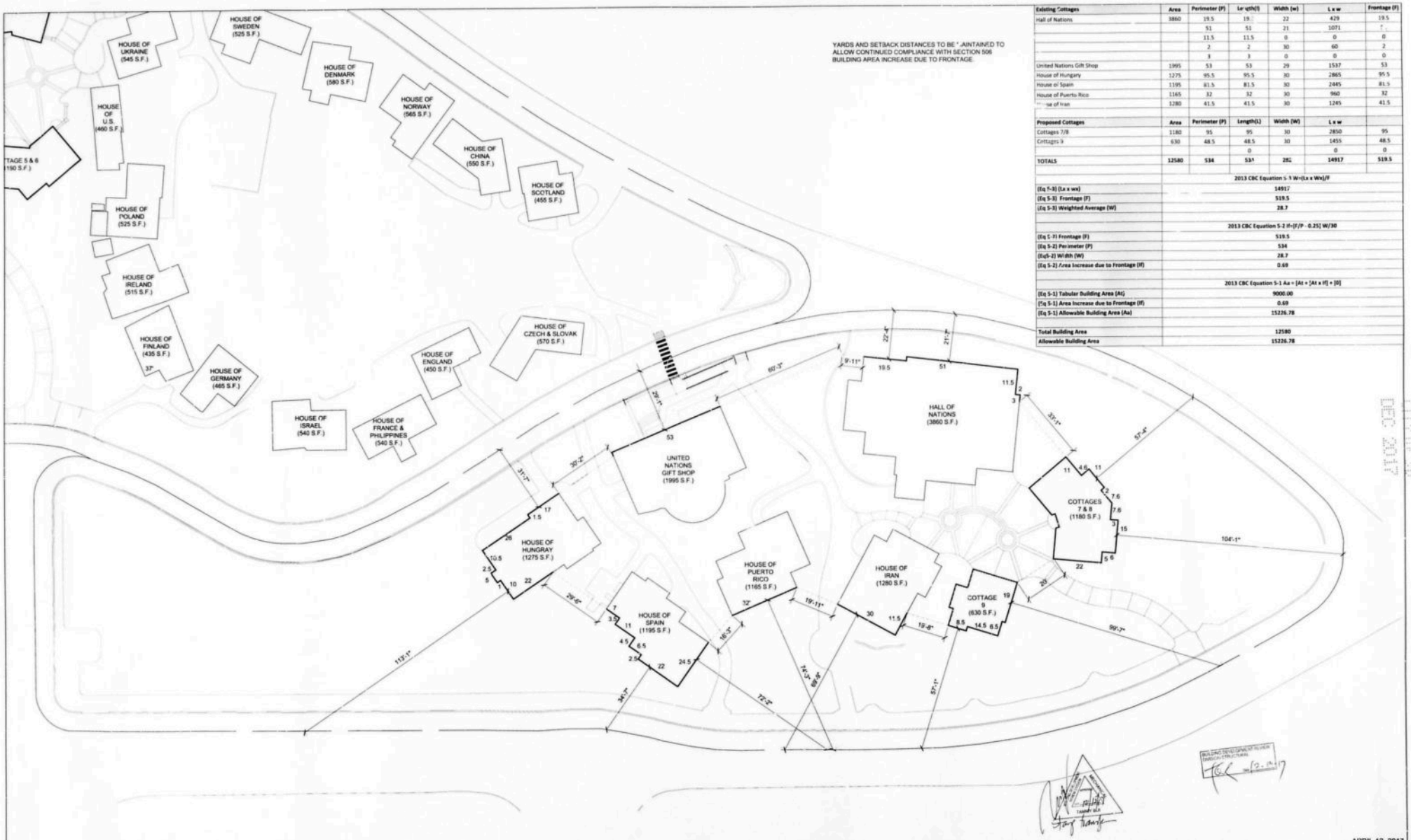
(PSD #)

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY



Existing Cottages	Area	Perimeter (P)	Length(l)	Width (w)	L x w	Frontage (F)
Hall of Nations	3860	19.5	19	22	429	19.5
		51	51	21	1071	7
		11.5	11.5	0	0	0
		2	2	30	60	2
		3	3	0	0	0
United Nations Gift Shop	1995	53	53	29	1537	53
House of Hungary	1275	95.5	95.5	30	2865	95.5
House of Spain	1195	81.5	81.5	30	2445	81.5
House of Puerto Rico	1165	32	32	30	960	32
House of Iran	1280	41.5	41.5	30	1245	41.5
Proposed Cottages	**Area**	**Perimeter (P)**	**Length(L)**	**Width (W)**	**L x w**	
Cottages 7/8	1180	95	95	30	2850	95
Cottages 9	630	48.5	48.5	30	1455	48.5
			0		0	0
TOTALS	**12580**	**534**	**534**	**282**	**14917**	**519.5**

	2013 CBC Equation 5-1 W=(Lx x Wx)/F
(Eq 5-3) (Lx x wx)	14917
(Eq 5-3) Frontage (F)	519.5
(Eq 5-3) Weighted Average (W)	28.7
	2013 CBC Equation 5-2 If=[F/P - 0.25] W/30
(Eq 5-2) Frontage (F)	519.5
(Eq 5-2) Perimeter (P)	534
(Eq5-2) Width (W)	28.7
(Eq 5-2) Area Increase due to Frontage (If)	0.69
	2013 CBC Equation 5-1 Aa = [At + [At x If] + [0]
(Eq 5-1) Tabular Building Area (At)	9000.00
(Eq 5-1) Area Increase due to Frontage (If)	0.69
(Eq 5-1) Allowable Building Area (Aa)	15226.78
Total Building Area	12580
Allowable Building Area	15226.78

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

NORTH LOT SITE PLAN — SHEET TITLE:

A0.2 — SHEET NUMBER:

LAMBERT COORDINATES 204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 STATE OF CALIFORNIA

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

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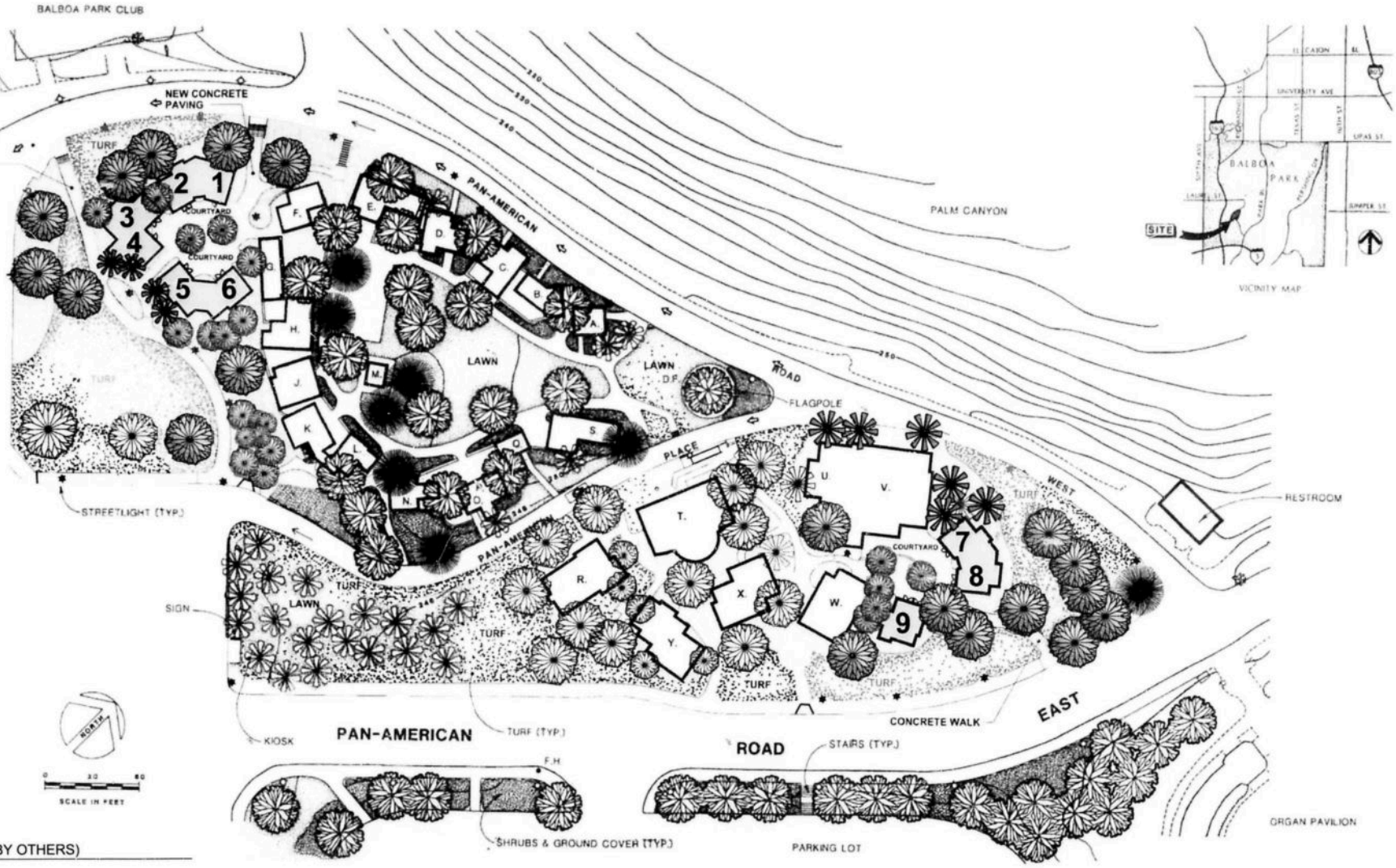

New Cottages

COTTAGES 1-9

Existing Cottages

A. SCOTLAND
B. CHINA
C. NORWAY
D. DENMARK
E. SWEDEN
F. UKRAINE
G. UNITED STATES
H. POLAND
J. IRELAND
K. FINLAND
L. GERMANY
M. JAPAN
N. ISRAEL
O. PHILIPPINES
P. FRANCE
Q. ENGLAND
R. HUNGARY
S. CZECHOSLOVAKIA
T. UNITED NATIONS BLDG.
U. ITALY
V. HALL OF NATIONS
W. IRAN
X. PUERTO RICO
Y. SPAIN

COTTAGE KEY PLAN (BY OTHERS)

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

COTTAGE KEY PLAN — A1.1

SHEET TITLE — SHEET NUMBER

LAMBERT COORDINATES 204-1721 — THOMAS BROTHERS PAGE: 60, D-6 — (PSD #)

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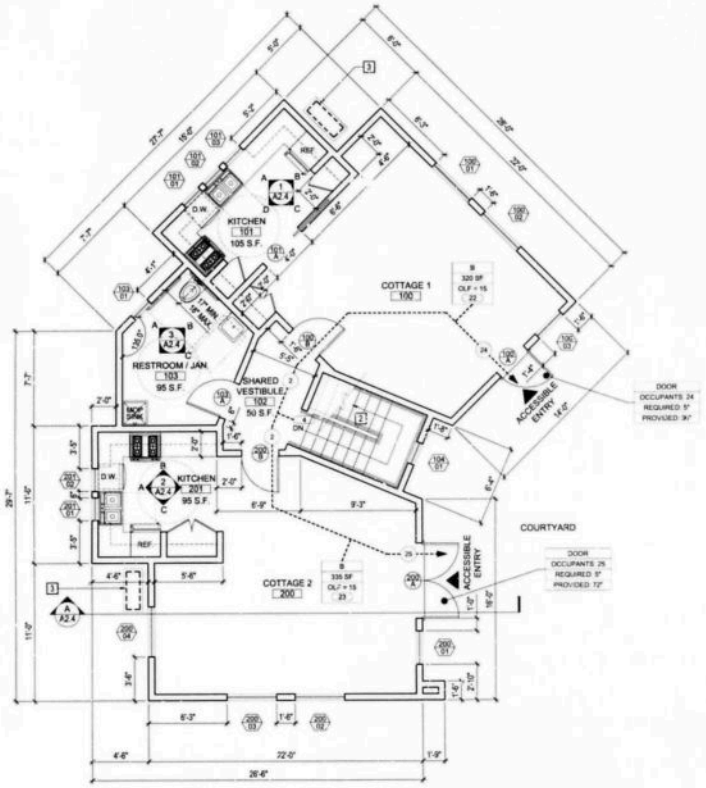


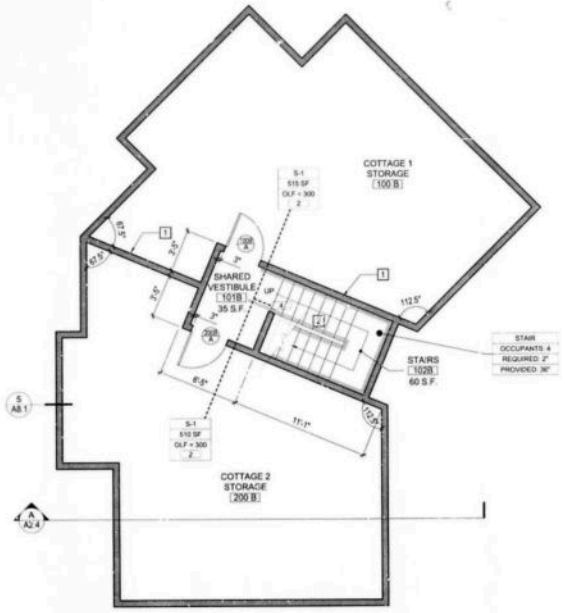
GROUND FLOOR PLAN - COTTAGE 1/2

1180 SQUARE FEET

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL



BASEMENT FLOOR PLAN - COTTAGE 1/2

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

KEY NOTES

1. CAST CONCRETE WALLS.
2. PRE-MANUFACTURED METAL STAIRS WITH HANDRAILS PER CBC SEC. 11B-505.
3. NEW 18" x 42" CONCRETE PAD. INSTALL PER MANUFACTURERS RECOMMENDATIONS. REFER TO MECHANICAL PLANS.

GENERAL NOTES

1. SEE SHEET A7.2 FOR DOOR AND WINDOW SCHEDULES
2. SEE SHEET A8.7 FOR STAIR DETAILS
3. SEE SHEETS C3 AND C4 FOR FINISH FLOOR FLOOR ELEVATIONS
4. ALL EXTERIOR WALLS TO BE INSULATED WITH R-19.
5. RANGES AND DISHWASHERS SHOWN ON PLANS ARE N.I.C. AND TO BE PROVIDED BY OWNER. RANGES AND DISWASHERS TO BE PROVIDED SHALL BE FOR RESIDENTIAL APPLICATION.

WALL LEGEND

WOOD FRAMED WALL

CAST-IN-PLACE CONCRETE WALL

EXIT PLAN GENERAL NOTES

1. THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, WILL BE ILLUMINATED TO A LEVEL OF NOT LESS THAN ONE FOOT CANDLE AT THE WALKING SURFACE AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED
2. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED AT ALL TIMES AND SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM (BATTERIES, UNIT EQUIPMENT OR ON-SITE GENERATOR) THAT WILL AUTOMATICALLY ILLUMINATE THE EXIT SIGNS FOR A DURATION OF NOT LESS THAN 90 MINUTES
3. TACTILE SIGNS SHALL CONFORM TO CBC 1011.4

EXIT PLAN KEY NOTES

1. STAIR/ELEVATOR SIGN
2. ROOM SIGN
3. EXIT SIGN

DEC 2017

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

APRIL 12, 2017

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HERITAGE ARCHITECTURE & PLANNING

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: COTTAGE 1/2 FLOOR PLANS

SHEET NUMBER: A2.1

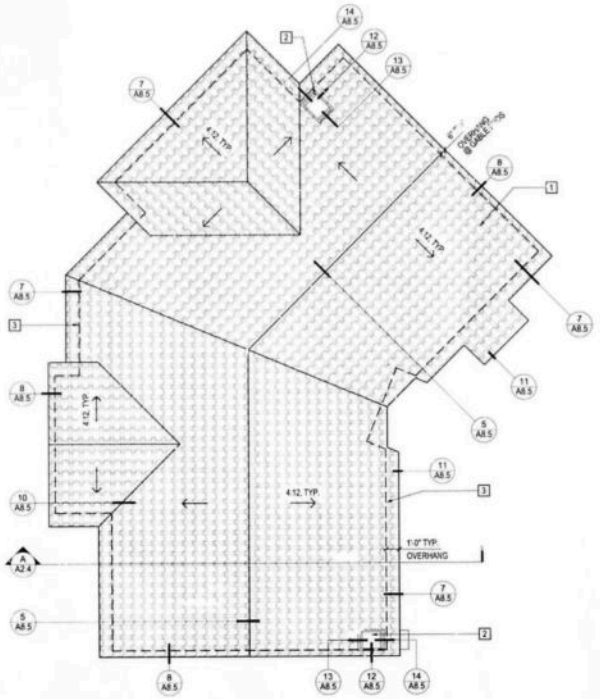
LAMBERT COORDINATES:204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

GENERAL NOTES

1. ALL ATTIC SPACES TO BE INSULATED WITH R-19.



ROOF PLAN - COTTAGE 1/2

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

KEY NOTES

1. CLASS 'A' CLAY TILE ROOFING 3Y MCA, CLASSIC TAPERED MISSION TILE, COLOR: OLD MISSION BLEND. SEE SHEET A8.5 FOR ROOFING DETAILS. UL790
2. CLAY TILE CHIMNEY CAP.
3. LINE OF BUILDING BELOW.

APRIL 12, 2017

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 03.31.18 STATE OF CALIFORNIA

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HERITAGE ARCHITECTURE & PLANNING

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

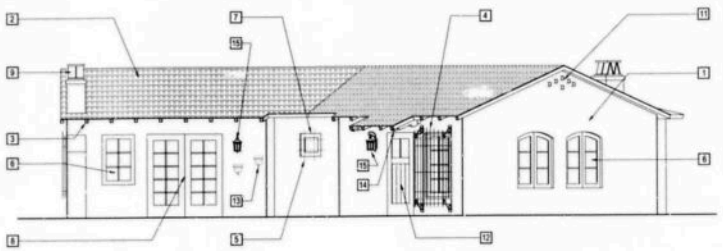
(A PORTION OF BALBOA PARK)

COTTAGE 1/2 ROOF PLAN — SHEET TITLE

A2.2 — SHEET NUMBER

LAMBERT COORDINATES:204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

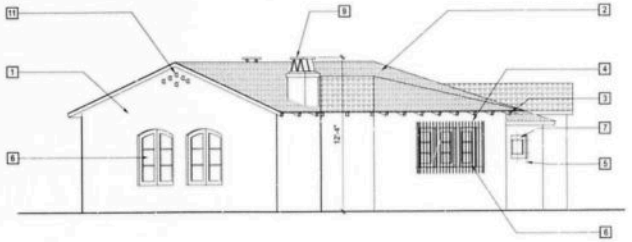
SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY



EAST ELEVATION - COTTAGE 1/2

SCALE: 1/4" = 1'-0"

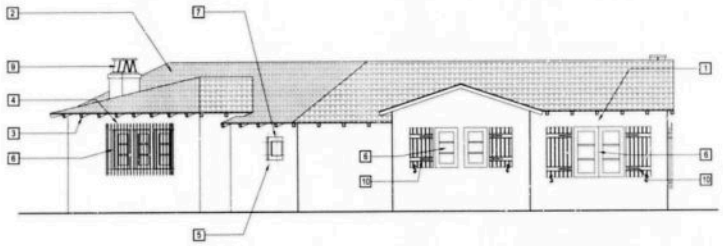
0 1 2 4 8 FEET



NORTH ELEVATION - COTTAGE 1/2

SCALE: 1/4" = 1'-0"

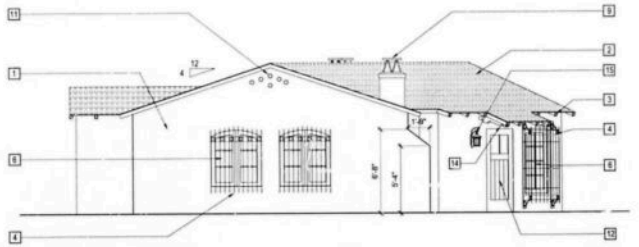
0 1 2 4 8 FEET



WEST ELEVATION - COTTAGE 1/2

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET



SOUTH ELEVATION - COTTAGE 1/2

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

GENERAL NOTES:

1. EXTERIOR STUCCO TEXTURE TO MATCH ORIGINAL 1935 STUCCO TEXTURE. CONTRACTOR TO PROVIDE SAMPLES FOR APPROVAL BY ARCHITECT AND HRB STAFF.
2. BUILDING SIGNAGE TO BE PROVIDED by TENANT. TENANT SHALL PROVIDE SIGNAGE DESIGNS FOR DEFERRED APPROVAL BY HRB STAFF.
- REFER TO FINISH SCHEDULE ON SHEET A7.1 FOR EXTERIOR PAINT COLORS.

KEY NOTES:

1. WOOD FRAMED WALL W/ TEXTURED EXTERIOR PLASTER, BULLNOSE CORNERS AND OPENINGS, PAINTED, TYP.
2. CLAY TILE ROOFING BY MCA, CLASSIC TAPERED MISSION TILE, COLOR: OLD MISSION BLEND.
3. EXPOSED RAFTER TAILS, PAINT FINISH, TYP.
4. DECORATIVE WROUGHT IRON SECURITY GRILLE, POWDER COAT FINISH. REFER TO WINDOW SCHEDULE AND SHEET A8.3.
5. WROUGHT IRON SECURITY GRILLE PER DET. 8/A8.3.
6. WOOD CASEMENT WINDOW w/ DIVIDED LITE GLASS, TYP.
7. WOOD FIXED GLASS WINDOW.
8. WOOD FRENCH DOOR w/ DIVIDED LITE GLASS, TYP.
9. CLAY TILE CHIMNEY CAP PER DET. 1/A8.6.
10. WOOD SHUTTERS PER DET. 10/A8.2.
11. CLAY PIPE ATTIC VENT PER DET. 6/A8.6.
12. WOOD ENTRY DOOR w/ UPPER PANEL LITES, TEMPERED.
13. DECORATIVE WROUGHT IRON FLOWER POT HANGER PER DET. 5/A8.1.
14. WOOD CORBELS PER DET. 8/A8.6.
15. DECORATIVE LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS.

DESIGNATED HISTORICAL RESOURCE

Approved per SDMC 143.0220 for this scope of work only. No changes to these approved plans and scope of work are permitted without review and approval by Plan-Historic staff. Failure to receive advanced approval can result in significant consequences.

Reviewer: Jane Brown Pg: 4/20/2020

HRB Site #: 1 Proj # 1210 Date: 4/24/17

Condition: A5.1, A5.2, A5.3, A5.4, A5.5, A5.6, A5.7, A5.8, A5.9, A5.10, A5.11, A5.12, A5.13, A5.14, A5.15, A5.16, A5.17, A5.18, A5.19, A5.20, A5.21, A5.22, A5.23, A5.24, A5.25, A5.26, A5.27, A5.28, A5.29, A5.30, A5.31, A5.32, A5.33, A5.34, A5.35

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 EXP. 08-31-18 STATE OF CALIFORNIA

ARCHITECT OF WORK:

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: COTTAGE 1/2 EXTERIOR ELEVATIONS

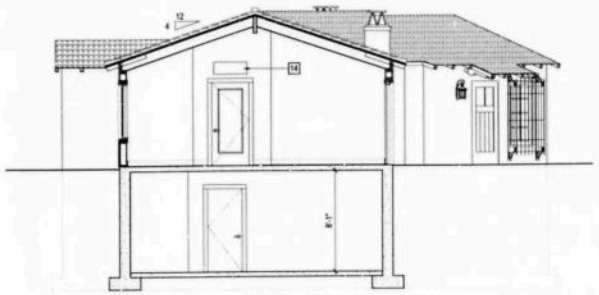
SHEET NUMBER: A2.3

LAMBERT COORDINATES:204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

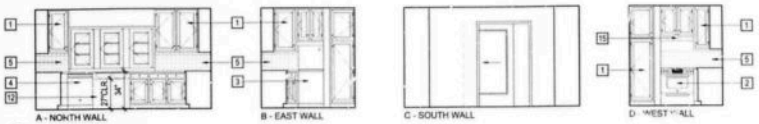
SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY



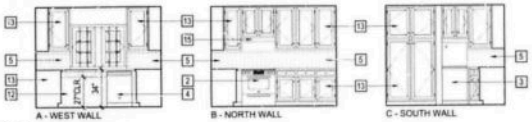
SECTION A-A

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET



(1) KITCHEN 101



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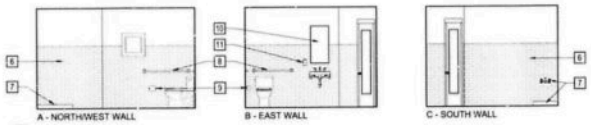


(3) RESTROOM 103

INTERIOR ELELVATIONS

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

GENERAL NOTES

1. REFER TO PLUMBING DRAWINGS FOR ALL PLUMBING FIXTURES.
2. REFER TO DOOR AND WINDOW SCHEDULES FOR DOOR AND WINDOW NOTES.
3. ALL KITCHEN APPLIANCES INCLUDING REFRIGERATORS, COOKING EQUIPMENT, AND DISHWASHERS SHALL BE PROVIDED AND INSTALLED BY TENANT. CONTRACTOR TO PROVIDE REQUIRED ELECTRICAL AND PLUMBING CONNECTIONS.
4. REFER TO PROJECT SPECIFICATIONS FOR FULL LIST OF TOILET ACCESSORIES REQUIRED IN EACH RESTROOM. ALL ACCESSORIES LISTED IN THE SPECIFICATIONS SHALL BE PROVIDED WETHER SHOWN ON THESE DRAWINGS OR NOT.
5. SEE DET. 1/A8.4 FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES AND GRAB BARS.

KEY NOTES

1. CUSTOM-FABRICATED WOOD CABINETS PER DET. 7/A8.1. PAINT FINISH.
2. ELECTRIC RANGE TO BE PROVIDED BY TENANT.
3. REFRIGERATOR TO BE PROVIDED BY TENANT.
4. DISHWASHER TO BE PROVIDED BY TENANT.
5. CERAMIC TILE BACKSLASH PER DET. 8/A8.1.
6. CERAMIC TILE WAINSCOT PER DET. 3/A8.1 AND 9/A8.1, TYPICAL ALL WALLS IN RESTROOM.
7. MOP SINK AND WALL-MOUNTED FAUCET, REFER TO PLUMBING DRAWINGS.
8. WALL-MOUNTED ADA COMPLIANT GRAB BARS.
9. WALL MOUNTED TOILET PAPER DISPENSER.
10. WALL MOUNTED MIRROR TO BE PROVIDED BY TENANT.
11. WALL-MOUNTED SOAP DISPENSER.
12. NU BASE CABINET BELOW SINK TO PROVIDE REQUIRED ADA KNEE CLEARANCE.
13. CUSTOM-FABRICATED WOOD CABINETS TO BE PROVIDED BY TENANT (N.I.C.).
14. WALL MOUNTED HEAT PUMP. REFER TO MECHANICAL DRAWINGS.
15. RANGE HOOD PROVIDED BY TENANT. GE PROFILE SERIES JVI536HSS OR SIMILAR.

DEC 2017

APRIL 12, 2017

LICENSED ARCHITECT DAVID MARSHALL C-24785 12-31-18 STATE OF CALIFORNIA

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

COTTAGE 1/2 INTERIOR ELEVATIONS

SHEET TITLE:

A2.4

SHEET NUMBER:

LAMBERT COORDINATES:204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

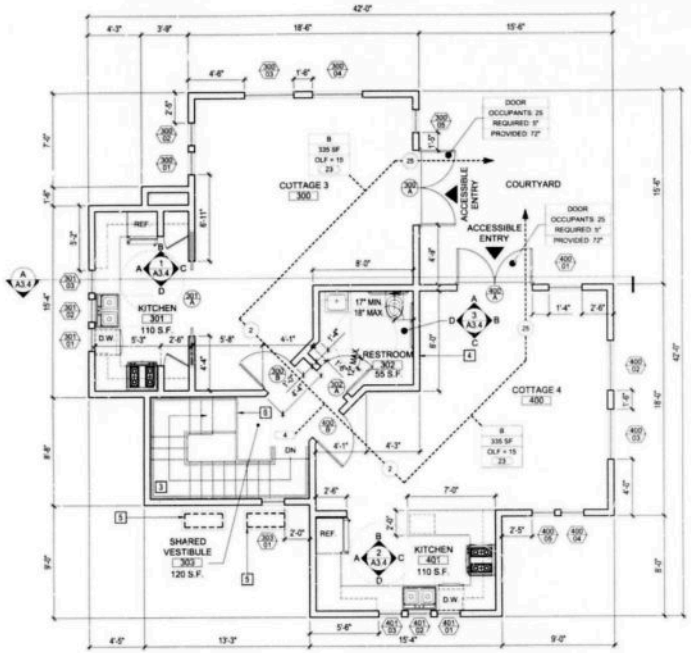
GENERAL NOTES

1. SEE SHEET AT.2 FOR DOOR AND WINDOW SCHEDULES
2. SEE SHEET A8.7 FOR STAIR DETAILS
3. SEE SHEETS C3 AND C4 FOR FINISH FLOOR FLOOR ELEVATIONS
4. ALL EXTERIOR WALLS TO BE INSULATED WITH R-19
5. RANGES AND DISHWASHERS SHOWN ON PLANS ARE N.I.C. AND TO BE PROVIDED BY OWNER. RANGES AND DISWASHERS TO BE PROVIDED SHALL BE FOR RESIDENTIAL APPLICATION.

WALL LEGEND

WOOD FRAMED WALL

CAST-IN-PLACE CONCRETE WALL



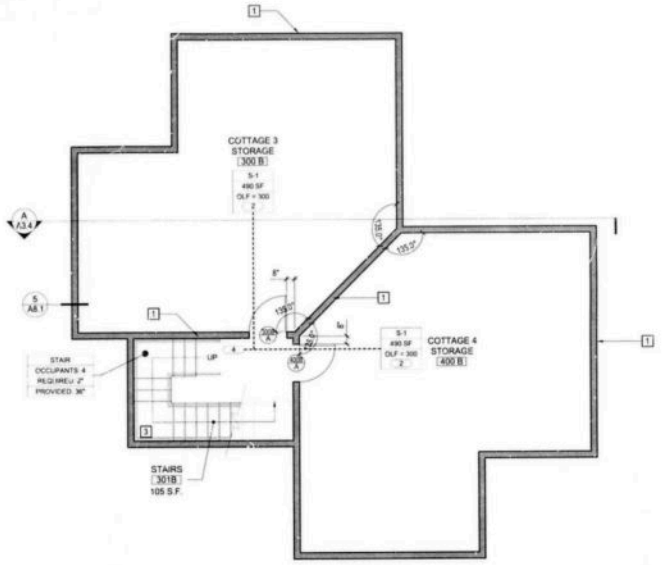
GROUND FLOOR PLAN - COTTAGE 3/4

1185 SQUARE FEET

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL



BASEMENT FLOOR PLAN - COTTAGE 3/4

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

KEY NOTES

1. CAST-CONCRETE WALLS.
2. DUTCH DOORS.
3. PRE-MANUFACTURED METAL STAIRS WITH HANDRAILS PER CBC SEC. 11B-505.
4. PROVIDE CONTINUOUS BLOCKING THIS WALL.
5. NEW 18" x 42" CONCRETE PAD. INSTALL PER MANUFACTURERS RECOMMENDATIONS. REFER TO MECHANICAL PLANS.
6. NEW GUARDRAIL. REFER TO DETAIL 6 / A8.7

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

COTTAGE 3/4 FLOOR PLANS — A3.1

SHEET TITLE: — SHEET NUMBER

LAMBERT COORDINATES:204-1721 — THOMAS BROTHERS PAGE: 60, D-6 — (PSD #)

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 03-31-19 STATE OF CALIFORNIA

ARCHITECT OF WORK

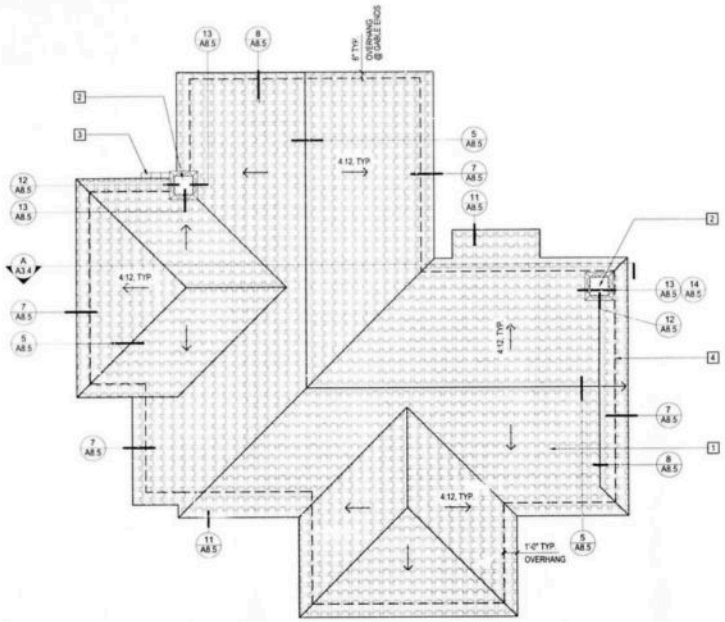
P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

GENERAL NOTES

1. ALL ATTIC SPACES TO BE INSULATED WITH R-19



ROOF PLAN - COTTAGE 3/4

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

KEY NOTES

1. CLASS 'A' CLAY TILE ROOFING BY MCA, CLASSIC TAPERED MISSION TILE, COLOR: OLD MISSION SLEND. SEE SHEET A8.5 FOR ROOFING DETAILS. UL790
2. CLAY TILE CHIMNEY CAP.
3. SLOPED CLAY TILE CAP.
4. LINE OF BUILDING BELOW.

APRIL 12, 2017

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 03.31.19 RENEWAL

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

COTTAGE 3/4 ROOF PLAN

SHEET TITLE:

A3.2

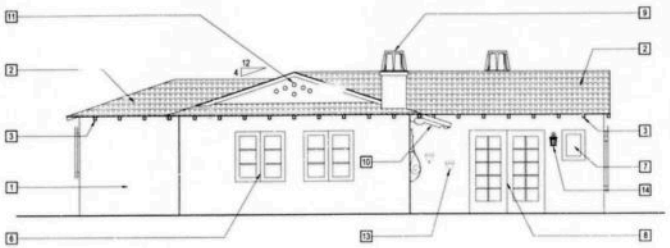
SHEET NUMBER:

LAMBERT COORDINATES 204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

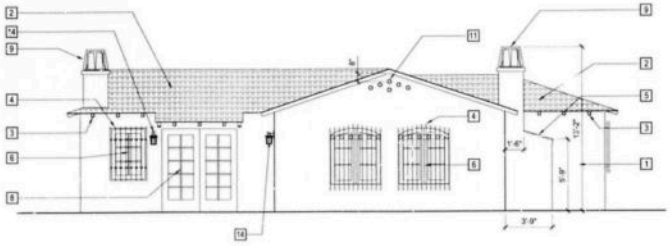
SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY



EAST ELEVATION - COTTAGE 3/4

SCALE: 1/4" = 1'-0"

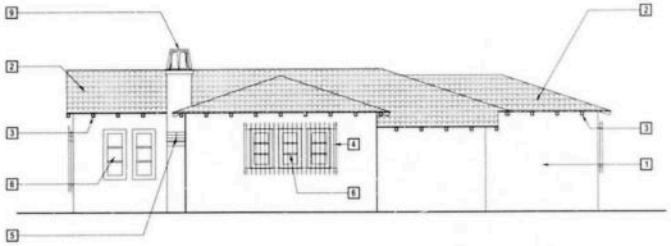
0 1 2 4 8 FEET



NORTH ELEVATION - COTTAGE 3/4

SCALE: 1/4" = 1'-0"

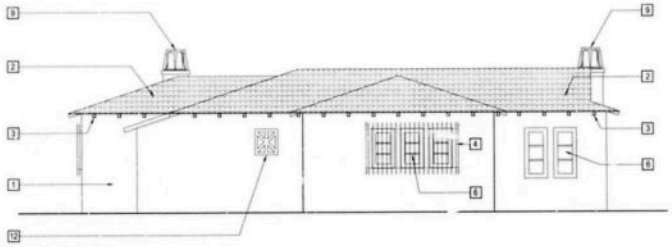
0 1 2 4 8 FEET



WEST ELEVATION - COTTAGE 3/4

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET



SOUTH ELEVATION - COTTAGE 3/4

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

GENERAL NOTES:

1. EXTERIOR STUCCO TEXTURE TO MATCH ORIGINAL 1935 STUCCO TEXTURE. CONTRACTOR TO PROVIDE SAMPLES FOR APPROVAL BY ARCHITECT AND HRB STAFF.
2. BUILDING SIGNAGE TO BE PROVIDED BY TENANT. TENANT SHALL PROVIDE SIGNAGE DESIGNS FOR DEFERRED APPROVAL BY HRB STAFF.
3. REFER TO FINISH SCHEDULE ON SHEET A7.1 FOR EXTERIOR PAINT COLORS.

KEY NOTES:

1. WOOD FRAMED WALL W/ TEXTURED EXTERIOR PLASTER. BULLNOSE CORNERS AND OPENINGS. PAINTED. TYP.
2. CLAY TILE ROOFING BY: MCA. CLASSIC TAPERED MISSION TILE. COLOR: OLD MISSION BLEND.
3. EXPOSED RAFTER TAILS. PAINT FINISH. TYP.
4. DECORATIVE WROUGHT IRON SECURITY GRILLE. POWDER COAT FINISH. REFER TO WINDOW SCHEDULE AND SHEET A8.3.
5. SLOPED CLAY TILE CAP PER DET. 5/A8.6.
6. WOOD CASEMENT WINDOW w/ DIVIDED LITE GLASS. TYP.
7. WOOD FIXED GLASS WINDOW.
8. WOOD FRENCH DOOR w/ DIVIDED LITE TEMPERED GLASS. TYP.
9. CLAY TILE CHIMNEY CAP PER DET. 3/A8.6.
10. DECORATIVE WOOD CORBEL PER DET. 8/A8.6.
11. CLAY PIPE ATTIC VENT PER DET. 6/A8.6.
12. DECORATIVE GFRC WINDOW SCREEN PER DET. 10/A8.3.
13. DECORATIVE WROUGHT IRON FLOWER POT HANGER PER DET. 6/A8.1.
14. DECORATIVE LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.

DEC 2017

DESIGNATED HISTORICAL RESOURCE

Approved per BDMC 143.0220 for this scope of work only. No changes to these approved plans and scope of work are permitted without review and approval by Plan-Historic staff. Failure to receive advanced approval can result in significant consequences.

Reviewer: Jane Brown Phone: (619) 235-5291

HRB Site #: Proj #: 529445 Date: 12-20-17

Comments on A1.3, A4.5, A4.6 & A4.8

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 03-31-18 Renewal STATE OF CALIFORNIA

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: COTTAGE 3/4 EXTERIOR ELEVATIONS

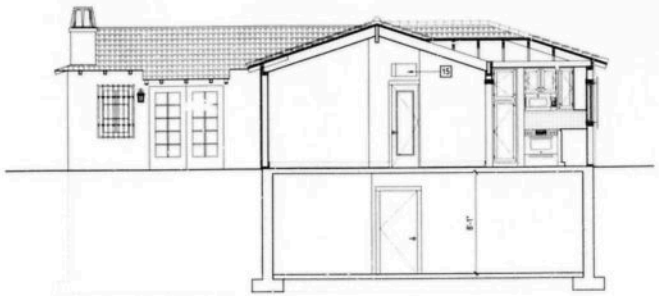
SHEET NUMBER: A3.3

LAMBERT COORDINATES:204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY



SECTION A-A

SCALE: 1/4" = 1'-0"

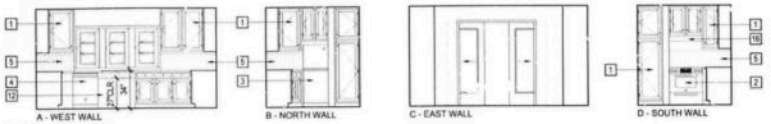
0 1 2 4 8 FEET

GENERAL NOTES

1. REFER TO PLUMBING DRAWINGS FOR ALL PLUMBING FIXTURES.
2. REFER TO DOOR AND WINDOW SCHEDULES FOR DOOR AND WINDOW NOTES.
3. ALL KITCHEN APPLIANCES INCLUDING REFRIGERATORS, COOKING EQUIPMENT, AND DISHWASHERS SHALL BE PROVIDED AND INSTALLED BY TENANT. CONTRACTOR TO PROVIDE REQUIRED ELECTRICAL AND PLUMBING CONNECTIONS.
4. REFER TO PROJECT SPECIFICATIONS FOR FULL LIST OF TOILET ACCESSORIES REQUIRED IN EACH RESTROOM. ALL ACCESSORIES LISTED IN THE SPECIFICATIONS SHALL BE PROVIDED WETHER SHOWN ON THESE DRAWINGS OR NOT
5. SEE DET. 1/A8.4 FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES AND GRAB BARS.

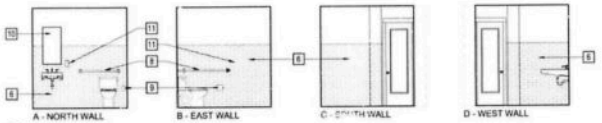
KEY NOTES

1. CUSTOM-FABRICATED WOOD CABINETS W/ DET. 7/A8.1. PAINT FINISH.
2. ELECTRIC RANGE TO BE PROVIDED BY TENANT.
3. REFRIGERATOR TO BE PROVIDED BY TENANT.
4. DISHWASHER TO BE PROVIDED BY TENANT.
5. CERAMIC TILE BACKSLASH PER DET. 8/A8.1.
6. CERAMIC TILE WAINSCOT PER DET. 3/A8.1 AND 9/A8.1. TYPICAL ALL WALLS IN RESTROOM.
7. CUSTOM-FABRICATED WOOD CABINETS PROVIDED BY TENANT (N.I.C.).
8. WALL-MOUNTED ADA COMPLIANT GRAB BARS.
9. WALL MOUNTED TOILET PAPER DISPENSER.
10. WALL MOUNTED MIRROR TO BE PROVIDED BY TENANT.
11. WALL-MOUNTED SOAP DISPENSER.
12. NO BASE CABINET BELOW SINK TO PROVIDE ADA REQUIRED KNEE CLEARANCE.
13. STAINLESS STEEL HOOD WITH CHIMNEY TO BE PROVIDED BY TENANT. GE JVW5301SJSS OR SIMILAR.
14. BUILT-IN MICROWAVE TO BE PROVIDED BY TENANT.
15. WALL-MOUNTED HEAT PUMP. REFER TO MECHANICAL DRAWINGS.
16. RANGE HOOD PROVIDED BY TENANT. GE PROFILE SERIES JV636HSS OR SIMILAR.



(1) KITCHEN 301

(2) KITCHEN 401



(3) RESTROOM 302

INTERIOR ELELVATIONS

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

APRIL 12, 2017

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: COTTAGE 3/4 INTERIOR ELEVATIONS

SHEET NUMBER: A3.4

LAMBERT COORDINATES 204-1721 THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

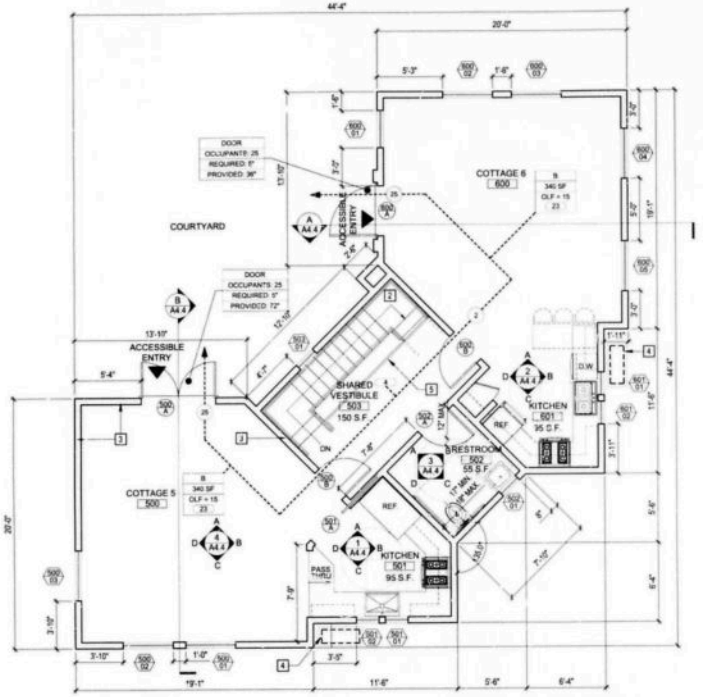
GENERAL NOTES

1. SEE SHEET A7.2 FOR DOOR AND WINDOW SCHEDULES
2. SEE SHEET A8.7 FOR STAIR DETAILS
3. SEE SHEETS C3 AND C4 FOR FINISH FLOOR ELEVATIONS
4. ALL EXTERIOR WALLS TO BE INSULATED WITH R-19.
5. RANGES AND DISHWASHERS SHOWN ("") PLANS ARE N.I.C. AND TO BE PROVIDED BY OWNER. RANGES AND DISWASHERS TO BE PROVIDED SHALL BE FOR RESICENTIAL APPLICATION

WALL LEGEND

WOOD FRAMED WALL

CAST-IN-PLACE CONCRETE WALL



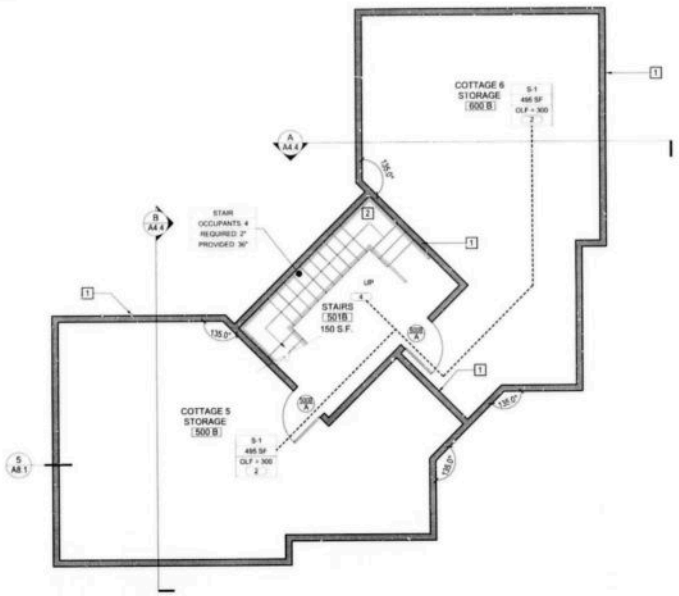
GROUND FLOOR PLAN - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

1190 SQUARE FEET



BASEMENT FLOOR PLAN - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

KEY NOTES

1. CAST-CONCRETE WALLS.
2. PRE-MANUFACTURED METAL STAIRS WITH HANDRAILS PER CBC SEC. 11B-505.
3. PROVIDE CONTINUOUS BLOCKING ON THIS WALL.
4. NEW 18" x 42" CONCRETE PAD. INSTALL PER MANUFACTURERS RECOMMENDATIONS. REFER TO MECHANICAL PLANS.
5. NEW GUARDRAIL. REFER TO DETAIL 6 / A8.7

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

COTTAGE 5/6 FLOOR PLANS — SHEET TITLE: — A4.1 — SHEET NUMBER

LAMBERT COORDINATES 204-1721 — THOMAS BROTHERS PAGE: 50, D-6 — (PSD #)

LICENSED ARCHITECT C-24785 — STATE OF CALIFORNIA

ARCHITECT OF WORK

D. DAVID MARSHALL C-24785

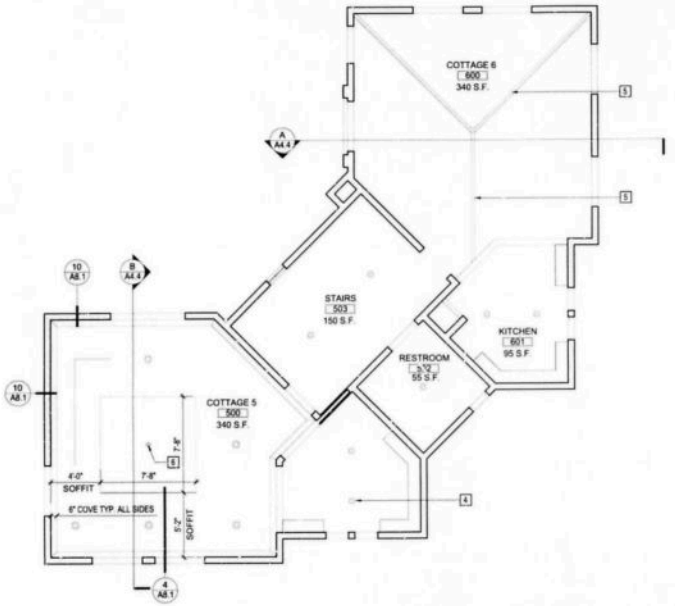
HERITAGE ARCHITECTURE & PLANNING

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

DEC 2017

GENERAL NOTES

1. ALL ATTIC SPACES TO BE INSULATED WITH R-19.



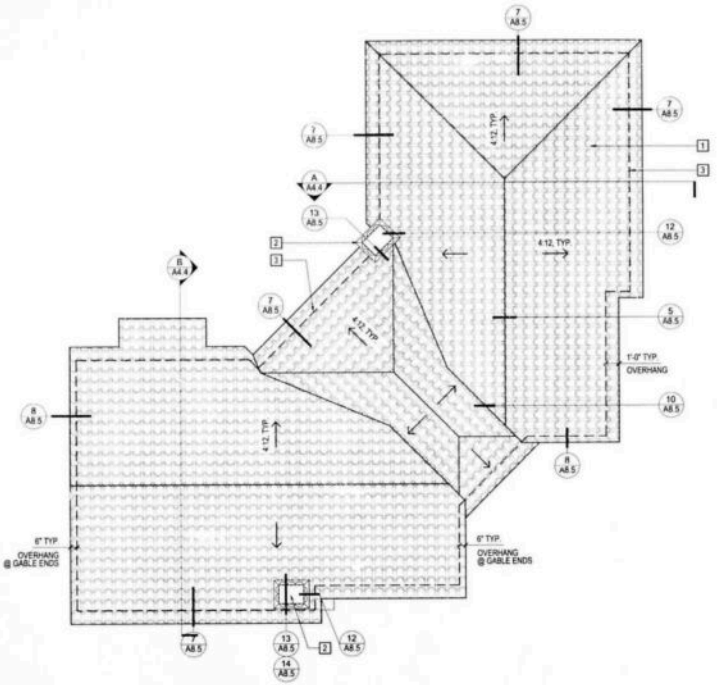
GROUND FLOOR REFLECTED CEILING PLAN - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE

1190 SQUARE FEET



ROOF PLAN - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

KEY NOTES

1. CLASS 'A' CLAY TILE ROOFING BY MCA, CLASSIC TAPERED MISSION TILE, COLOR: OLD MISSION BLEND. SEE SHEET A8.5 FOR ROOFING DETAILS. UL790
2. CLAY TILE CHIMNEY CAP.
3. LINE OF BUILDING BELOW.
4. RECESSED LIGHT FIXTURE REFER TO ELECTRICAL DRAWINGS
5. EXPOSED BEAM, PAINT FINISH.
6. CEILING MOUNTED LIGHT FIXTURE PROVIDED BY TENANT, INSTALLED BY CONTRACTOR.

DEC 2017

APRIL 12, 2017

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 STATE OF CALIFORNIA

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

COTTAGE 5/6 ROOF PLAN

SHEET TITLE:

A4.2

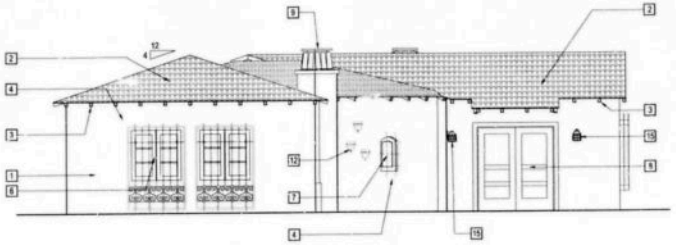
SHEET NUMBER

LAMBERT COORDINATES 204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

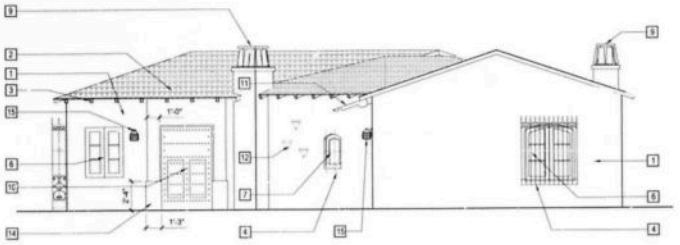
SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY



NORTH ELEVATION - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

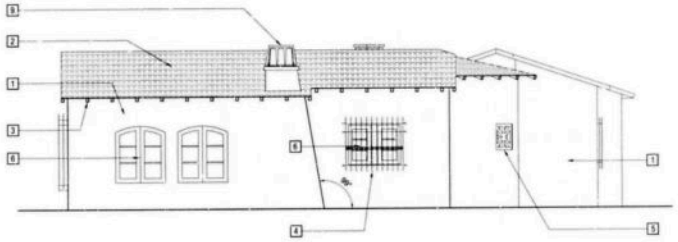
0 1 2 4 8 FEET



WEST ELEVATION - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET



SOUTH ELEVATION - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

EAST ELEVATION - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

GENERAL NOTES:

1. EXTERIOR STUCCO TEXTURE TO MATCH ORIGINAL 1935 STUCCO TEXTURE. CONTRACTOR TO PROVIDE SAMPLES FOR APPROVAL BY ARCHITECT AND HRB STAFF.
2. BUILDING SIGNAGE TO BE PROVIDED BY TENANT. TENANT SHALL PROVIDE SIGNAGE DESIGNS FOR DEFERRED APPROVAL BY HRB STAFF.
3. REFER TO FINISH SCHEDULE ON SHEET A7.1 FOR EXTERIOR PAINT COLORS.

KEY NOTES:

1. WOOD FRAMED WALL W/ TEXTURED EXTERIOR PLASTER, BULLNOSE CORNERS AND OPENINGS. PAINTED, TYP.
2. CLAY TILE ROOFING BY MCA, CLASSIC TAPERED MISSION TILE, COLOR: OLD MISSION BLEND.
3. EXPOSED RAFTER TAILS, PAINT FINISH, TYP.
4. DECORATIVE WROUGHT IRON SECURITY GRILLE, POWDER COAT FINISH. REFER TO WINDOW SCHEDULE AND SHEET A8.3.
5. DECORATIVE GFRC WINDOW SCREEN PER DET. 10/A8.3.
6. WOOD CASEMENT WINDOW w/ DIVIDED LITE GLASS, TYP.
7. WOOD FIXED GLASS WINDOW.
8. WOOD RECESSED PANEL ENTRY DOOR w/ UPPER PANEL LITE.
9. CLAY TILE CHIMNEY CAP PER DET.2/A8.6.
10. WOOD ENTRY DOOR SUPPLIED BY TENANT (DEFERRED APPROVAL BY HRB STAFF REQUIRED).
11. DECORATIVE WOOD CORBEL PER DET. 8/A8.6.
12. DECORATIVE WROUGHT IRON FLOWER POT HANGER PER DET. 6/A8.1.
13. WOOD SHUTTERS PER DET. 10/A8.2.
14. STUCCO DOOR SURROUND.
15. DECORATIVE LIGHT FIXTURE. REFER TO ELECTRICAL DRAWINGS.

DEC 2017

DESIGNATED HISTORICAL RESOURCE

Approved per SDMC 143.0220 for it is scope of work only. No changes to these approved plans and scope of work are permitted without review and approval by Park+Historic staff. Failure to receive advanced approval can result in significant consequences.

Reviewer: Jose Brown Date: 12/19/17

Permit Type #: 1 Proj #: 511630

Stamps on A2.3, A3.3, A3.5 + A6.3

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 REGISTERED PROFESSIONAL ARCHITECT STATE OF CALIFORNIA

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: COTTAGE 5/6 EXTERIOR ELEVATIONS

SHEET NUMBER: A4.3

LAMBERT COORDINATES:204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

SECTION A-A

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

SECTION B-B

SCALE: 1/4" = 1'-0"

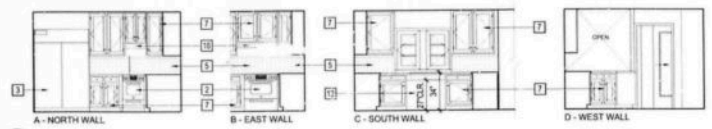
0 1 2 4 8 FEET

GENERAL NOTES

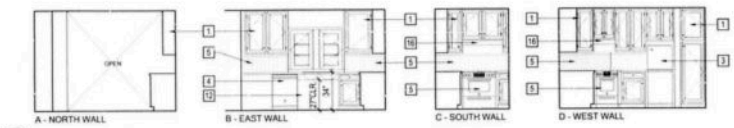
1. REFER TO PLUMBING DRAWINGS FOR ALL PLUMBING FIXTURES.
2. REFER TO DOOR AND WINDOW SCHEDULES FOR DOOR AND WINDOW NOTES.
3. ALL KITCHEN APPLIANCES INCLUDING REFRIGERATORS, COOKING EQUIPMENT, AND DISHWASHERS SHALL BE PROVIDED AND INSTALLED BY TENANT. CONTRACTOR TO PROVIDE REQUIRED ELECTRICAL AND PLUMBING CONNECTIONS.
4. REFER TO PROJECT SPECIFICATIONS FOR FULL LIST OF TOILET ACCESSORIES REQUIRED IN EACH RESTROOM. ALL ACCESSORIES LISTED IN THE SPECIFICATIONS SHALL BE PROVIDED WETHER SHOWN ON THESE DRAWINGS OR NOT
5. SEE DET. 1/A8.4 FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES AND GRAB BARS.

KEY NOTES

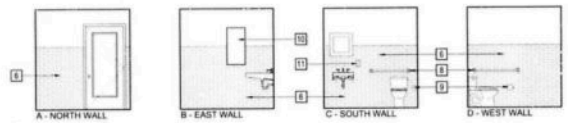
1. CUSTOM-FABRICATED WOOD CABINETS PER DET. 7/A8.1. PAINT FINISH.
2. ELECTRIC RANGE TO BE PROVIDED BY TENANT.
3. REFRIGERATOR TO BE PROVIDED BY TENANT.
4. DISHWASHER TO BE PROVIDED BY TENANT.
5. CERAMIC TILE AT BACKSLASH PER DET. 8/A8.1.
6. CERAMIC TILE WAINSCOT PER DETAILS 3/A8.1 AND 9/A8.1, TYPICAL ALL WALLS IN RESTROOM.
7. CUSTOM FABRICATED WOOD CABINETS PROVIDED BY TENANT (N.I.C.).
8. WALL-MOUNTED ADA COMPLIANT GRAB BARS.
9. WALL MOUNTED TOILET PAPER DISPENSER.
10. WALL MOUNTED MIRROR TO BE PROVIDED BY TENANT.
11. WALL-MOUNTED SOAP DISPENSER.
12. NO BASE CABINET BELOW SINK TO PROVIDE ADA REQUIRED KNEE CLEARANCE.
13. COVED AND SOFFITED CEILING REFER TO REFLECTED CEILING PLAN AND REFERENCED DETAILS.
14. RECESSED LIGHTING PER ELECTRICAL DRAWINGS.
15. WALL-MOUNTED HEAT PUMP, REFER TO MECHANICAL DRAWINGS.
16. RANGE HOOD PROVIDED BY TENANT. GE PROFILE SERIES JV636HSS OR SIMILAR.
17. WALL-MOUNTED LIGHT FIXTURE PER ELECTRICAL DRAWINGS.



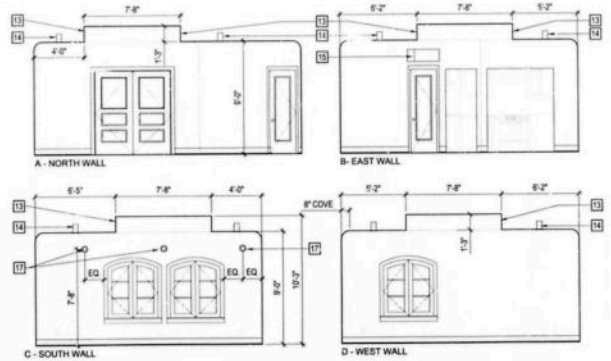
(1) KITCHEN 501



(2) KITCHEN 601



(3) RESTROOM 502



(4) HOUSE OF PALESTINE 500

INTERIOR ELELVATIONS

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

COTTAGE 5/6 INTERIOR ELEVATIONS

A4.4

SHEET NUMBER:

SHEET TITLE:

LAMBERT COORDINATES:204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 REGISTERED CALIFORNIA

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

DEC 2017

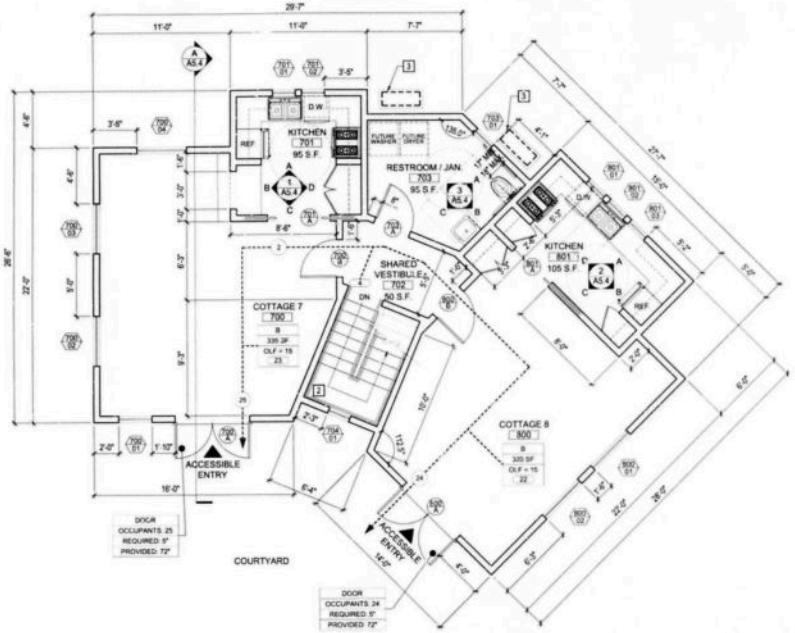
GENERAL NOTES

1. SEE SHEET A7.2 FOR DOOR AND WINDOW SCHEDULES
2. SEE SHEET A8.7 FOR STAIR DETAILS
3. SEE SHEETS C3 AND C4 FOR FINISH FLOOR FLOOR ELEVATIONS
4. ALL EXTERIOR WALLS TO BE INSULATED WITH R-19
5. RANGES AND DISHWASHERS ARE SHOWN ON PLANS ARE N.I.C. AND TO BE PROVIDED BY OWNER. RANGES AND DISWASHERS TO BE PROVIDED SHALL BE FOR RESIDENTIAL APPLICATION

WALL LEGEND

WOOD FRAMED WALL

CAST-IN-PLACE CONCRETE WALL



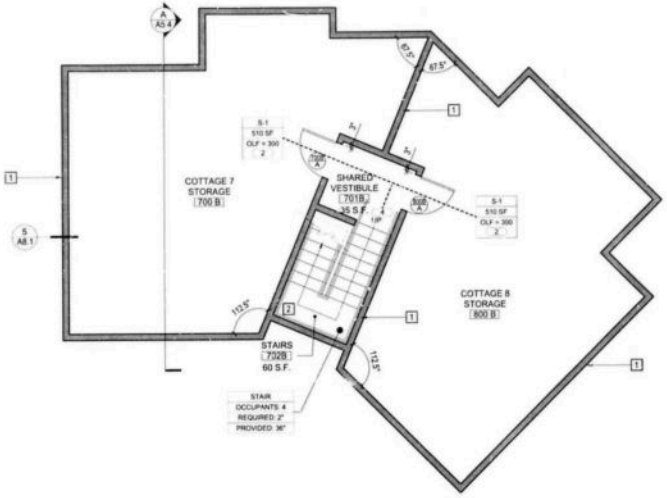
GROUND FLOOR PLAN - COTTAGE 7/8

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

1180 SQUARE FEET



BASEMENT FLOOR PLAN - COTTAGE 7/8

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

KEY NOTES

1. CAST-CONCRETE WALLS.
2. PRE-MANUFACTURED METAL STAIRS WITH HANDRAILS PER CBC SEC. 11B-505.
3. NEW 18" x 42" CONCRETE PAD. INSTALL PER MANUFACTURERS RECOMMENDATIONS. REFER TO MECHANICAL PLANS.

APRIL 12, 2017

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 03-31-19 STATE OF CALIFORNIA

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

COTTAGE 7/8 FLOOR PLANS

SHEET TITLE

A5.1

SHEET NUMBER

LAMBERT COORDINATES 204-1721

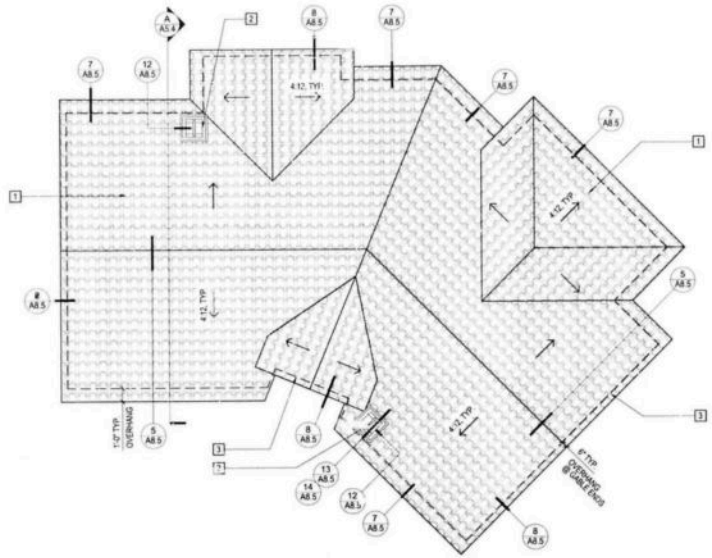
THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

GENERAL NOTES

1. ALL ATTIC SPACES TO BE INSULATED WITH R-19.



ROOF PLAN - COTTAGE 7/8

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

KEY NOTES

1. CLASS 'A' CLAY TILE ROOFING BY: MCA, CLASSIC TAPERED MISSION TILE. COLOR: OLD MISSION BLEND. SEE SHEET A8.5 FOR ROOFING DETAILS. UL790
2. CLAY TILE CHIMNEY CAP.
3. LINE OF BUILDING BELOW.

APRIL 12, 2017

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 02-01-19 CALIFORNIA

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

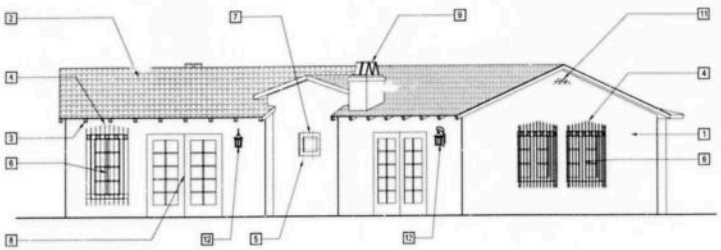
(A PORTION OF BALBOA PARK)

SHEET TITLE: COTTAGE 7/8 ROOF PLAN

SHEET NUMBER: A5.2

LAMBERT COORDINATES 204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

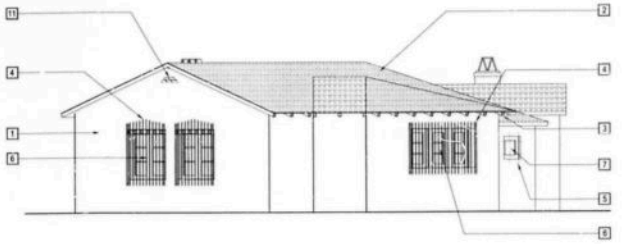
SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY



SOUTH ELEVATION - COTTAGE 7/8

SCALE: 1/4" = 1'-0"

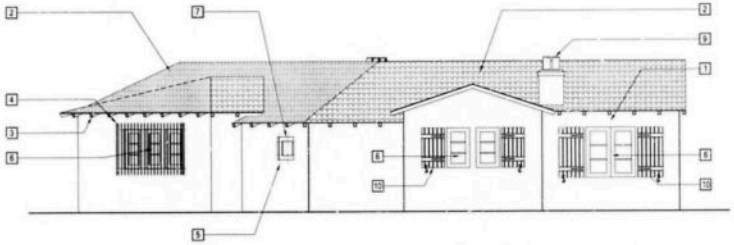
0 1 2 4 8 FEET



EAST ELEVATION - COTTAGE 7/8

SCALE: 1/4" = 1'-0"

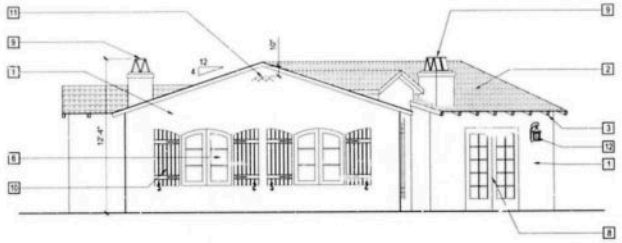
0 1 2 4 8 FEET



NORTH ELEVATION - COTTAGE 7/8

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET



WEST ELEVATION - COTTAGE 7/8

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

GENERAL NOTES:

1. EXTERIOR STUCCO TEXTURE TO MATCH ORIGINAL 1935 STUCCO TEXTURE. CONTRACTOR TO PROVIDE SAMPLES FOR APPROVAL BY ARCHITECT AND HRB STAFF.
2. BUILDING SIGNAGE TO BE PROVIDED BY TENANT. TENANT SHALL PROVIDE SIGNAGE DESIGNS FOR DEFERRED APPROVAL BY HRB STAFF.
3. REFER TO FINISH SCHEDULE ON SHEET A7.1 FOR EXTERIOR PAINT COLORS.

KEY NOTES:

1. WOOD FRAMED WALL W/ TEXTURED EXTERIOR PLASTER, BULLNOSE CORNERS AND OPENINGS, PAINTED, TYP.
2. CLAY TILE ROOFING BY MCA, CLASSIC TAPERED MISSION TILE, COLOR: OLD MISSION BLEND.
3. EXPOSED RAFTER TAILS, PAINT FINISH, TYP.
4. DECORATIVE WROUGHT IRON SECURITY GRILLE, POWDER COAT FINISH. REFER TO WINDOW SCHEDULE AND SHEET A8.3.
5. WROUGHT IRON SECURITY GRILLE PER DET. 8/A8.3.
6. WOOD CASEMENT WINDOW w/ DIVIDED LITE GLASS, TYP.
7. WOOD FIXED GLASS WINDOW.
8. WOOD FRENCH DOOR w/ DIVIDED LITE TEMPERED GLASS, TYP.
9. CLAY TILE CHIMNEY CAP PER DET. 1/A8.6.
10. WOOD SHUTTERS PER DET. 10/A8.2.
11. CLAY TILE ATTIC VENT PER DET. 7/A8.0.
12. DECORATIVE LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS.

DEC 2017

DESIGNATED HISTORICAL RESOURCE:

Approved per SDMC 143.0220 for this scope of work only. No changes to these approved plans and scope of work are permitted without review and approval by Plan-Historic staff. Failure to receive advanced approval can result in significant consequences.

Reviewer: Vince Palumbo Date: 12/20/2017

Within Site # Preservation of Cottages

Comply with A2.3, A3.3, A4.3 + A8.3

LICENSED ARCHITECT PAUL DAVID MARSHALL C-24765 03.31.19 STATE OF CALIFORNIA

ARCHITECT OF WORK

P. DAVID MARSHALL C-24765

HERITAGE ARCHITECTURE & PLANNING

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

COTTAGE 7/8 EXTERIOR ELEVATIONS

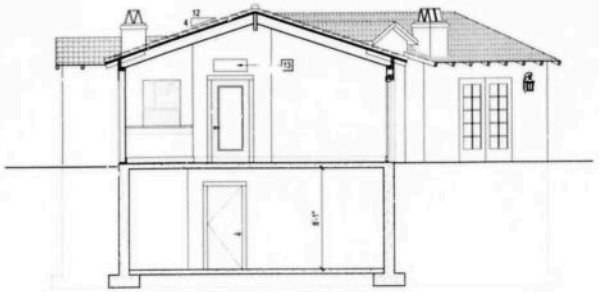
SHEET TITLE:

A5.3

SHEET NUMBER:

LAMBERT COORDINATES:204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY



SECTION A-A

SCALE: 1/4" = 1'-0"

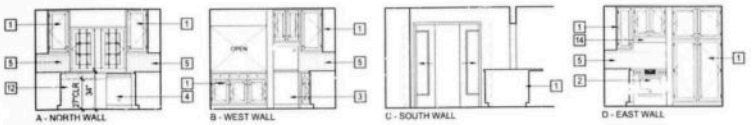
0 1 2 4 8 FEET

GENERAL NOTES

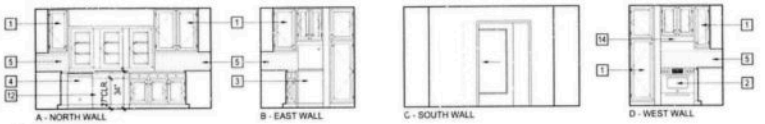
1. REFER TO PLUMBING DRAWINGS FOR ALL PLUMBING FIXTURES.
2. REFER TO DOOR AND WINDOW SCHEDULES FOR DOOR AND WINDOW NOTES.
3. ALL KITCHEN APPLIANCES INCLUDING REFRIGERATORS, COOKING EQUIPMENT, AND DISHWASHERS SHALL BE PROVIDED AND INSTALLED BY TENANT. CONTRACTOR TO PROVIDE REQUIRED ELECTRICAL AND PLUMBING CONNECTIONS.
4. REFER TO PROJECT SPECIFICATIONS FOR FULL LIST OF TOILET ACCESSORIES REQUIRED IN EACH RESTROOM. ALL ACCESSORIES LISTED IN THE SPECIFICATIONS SHALL BE PROVIDED WETHER SHOWN ON THESE DRAWINGS OR NOT.
5. SEE DET. 1/A8.4 FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES AND GRAB BARS.

KEY NOTES

1. CUSTOM-FABRICATED WOOD CABINETS PER DET. 7/A8.1. PAINT FINISH.
2. ELECTRIC RANGE TO BE PROVIDED BY TENANT.
3. REFRIGERATOR TO BE PROVIDED BY TENANT.
4. DISHWASHER TO BE PROVIDED BY TENANT.
5. CERAMIC TILE BACKSLASH PER DET. 8/A8.1.
6. CERAMIC TILE WAINSCOT PER DET. 3/A8.1 AND 9/A8.1, TYPICAL ALL WALLS IN RESTROOM.
7. FUTURE WASHER/DRYER, REFER TO PLUMBING DRAWINGS.
8. WALL-MOUNTED ADA COMPLIANT GRAB BARS.
9. WALL MOUNTED TOILET PAPEN DISPENSER.
10. WALL MOUNTED MIRROR TO BE PROVIDED BY TENANT.
11. WALL-MOUNTED SOAP DISPENSER.
12. NO BASE CABINET BELOW SINK TO PROVIDE ADA REQUIRED KNEE CLEARANCE.
13. WALL-MOUNTED HEAT PUMP, REFER TO MECHANICAL DRAWINGS.
14. RANGE HOOD PROVIDED BY TENANT. GE PROFILE SERIES JV836HSS OR SIMILAR.



(1) KITCHEN 701



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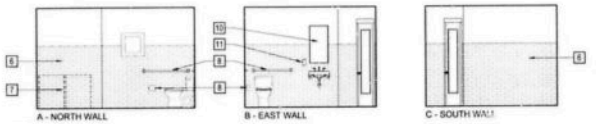


(3) RESTROOM 703

INTERIOR ELELVATIONS

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

COTTAGE 7/8 INTERIOR ELEVATIONS

SHEET TITLE:

A5.4

SHEET NUMBER:

LAMBERT COORDINATES:204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 03.31.19 RENEWAL STATE OF CALIFORNIA

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

DEC 2017

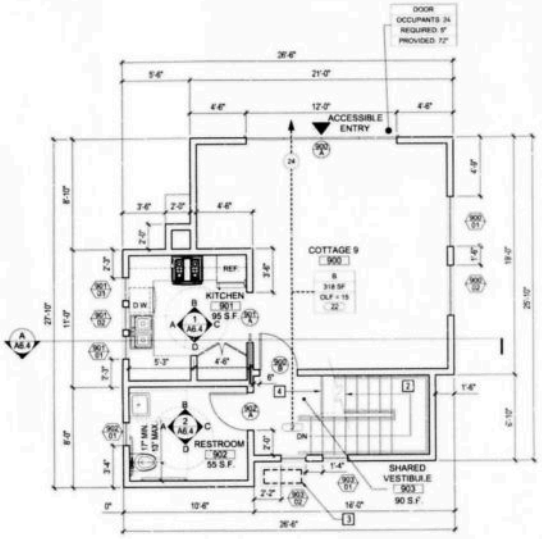
GENERAL NOTES

1. SEE SHEET A7.2 FOR DOOR AND WINDOW SCHEDULES
2. SEE SHEET A8.7 FOR STAIR DETAILS
3. SEE SHEETS C3 AND C4 FOR FINISH FLOOR FLOUR ELEVATIONS
4. ALL EXTERIOR WALLS TO BE INSULATED WITH R-19.
5. RANGES AND DISHWASHERS SHOWN ON PLANS ARE N.I.C. AND TO BE PROVIDED BY OWNER. RANGES AND DISWASHERS TO BE PROVIDED SHALL BE FOR RESIDENTIAL APPLICATION.

WALL LEGEND

WOOD FRAMED WALL

CAST-IN-PLACE CONCRETE WALL



GROUND FLOOR PLAN - COTTAGE 9

630 SQUARE FEET

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

BASEMENT FLOOR PLAN - COTTAGE 9

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

KEY NOTES

1. CAST-CONCRETE WALLS.
2. PRE-MANUFACTURED METAL STAIRS WITH HANDRAILS PER CBC SEC. 11B-505.
3. NEW 18" x 42" CONCRETE PAD. INSTALL PER MANUFACTURERS RECOMMENDATIONS. REFER TO MECHANICAL PLANS.
4. NEW GUARDRAIL. REFER TO DETAIL 6 / A8.7

APRIL, 12, 2017

LICENSED ARCHITECT P. DAVID MARSHALL C-24785

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: COTTAGE 9 FLOOR PLANS

SHEET NUMBER: A6.1

LAMBERT COORDINATES 204-1721

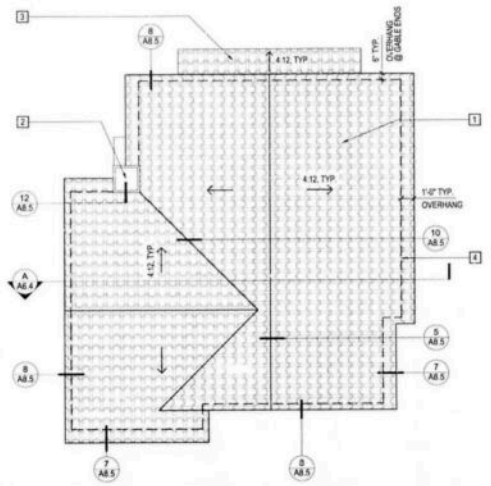
THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

GENERAL NOTES

1. ALL ATTIC SPACES TO BE INSULATED WITH R-19.



ROOF PLAN - COTTAGE 9

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

KEY NOTES

1. CLAY TILE ROOFING BY MCA, CLASSIC TAPERED MISSION TILE, COLOR: OLD MISSION BLEND. SEE SHEET A8.5 FOR ROOFING DETAILS.
2. PLASTER AND CLAY TILE CHIMNEY CAP.
3. CLAY TILE SHED ROOF AT ENTRY.
4. LINE OF BUILDING BELOW.

APRIL 12, 2017

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 12-31-18 STATE OF CALIFORNIA

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HERITAGE ARCHITECTURE & PLANNING

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: COTTAGE 9 ROOF PLAN

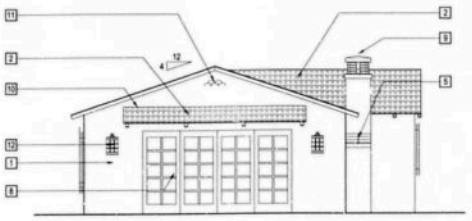
SHEET NUMBER: A6.2

LAMBERT COORDINATES:204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

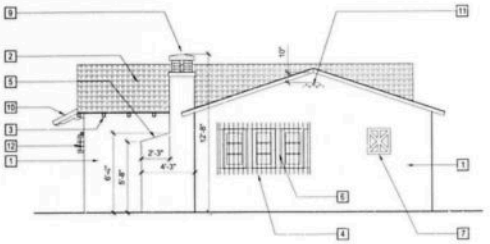
SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY



NORTH ELEVATION - COTTAGE 9

SCALE: 1/4" = 1'-0"

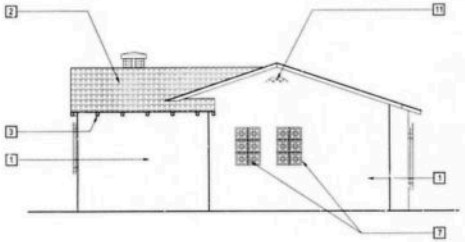
0 1 2 4 8 FEET



WEST ELEVATION - COTTAGE 9

SCALE: 1/4" = 1'-0"

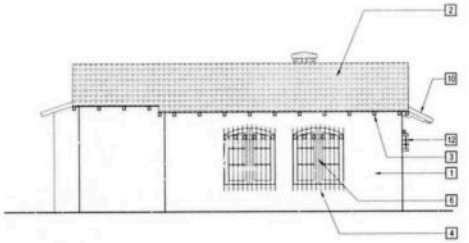
0 1 2 4 8 FEET



SOUTH ELEVATION - COTTAGE 9

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET



EAST ELEVATION - COTTAGE 9

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

GENERAL NOTES:

1. EXTERIOR STUCCO TEXTURE TO MATCH ORIGINAL 1935 STUCCO TEXTURE. CONTRACTOR TO PROVIDE SAMPLES FOR APPROVAL BY ARCHITECT AND HRB STAFF.
2. BUILDING SIGNAGE TO BE PROVIDED BY TENANT. TENANT SHALL PROVIDE SIGNAGE DESIGNS FOR DFFERRED APPROVAL BY HRB STAFF.
3. REFER TO FINISH SCHEDULE ON SHEET A7.1 FOR EXTERIOR PAINT COLORS.

KEY NOTES:

1. W/OOD FRAMED WALL W/ TEXTURED EXTERIOR PLASTER, BULLNOSE CORNERS AND OPENINGS, PAINTED, TYP.
2. CLAY TILE ROOFING BY MCA, CLASSIC TAPERED MISSION TILE. COLOR: OLD MISSION BLEND.
3. EXPOSED RAFTER TAILS, PAINT FINISH, TYP.
4. DECORATIVE WROUGHT IRON SECURITY GRILLE, POWDER COAT FINISH. REFER TO WINDOW SCHEDULE AND SHEET A8.3.
5. SLOPED CLAY TILE CAP PER DET. 5/A8.6.
6. WOOD CASEMENT WINDOW w/ DIVIDED LITE GLASS, TYP.
7. DECORATIVE GFRC WINDOW SCREEN PER DET. 10/A8.3.
8. WOOD BI-FOLD FRENCH DOOR. PROVIDED BY TENANT, TO BE INSTALLED BY CONTRACTOR.
9. DECORATIVE CHIMNEY CAP PER DET. 4/A8.6.
10. SHED ROOF AT ENTRY w/ DECORATIVE WOOD CORBEL SUPPORTS PER DET. 8/A8.6.
11. CLAY TILE ATTIC VENT PER DET. 7/A8.6.
12. DECORATIVE LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS.

RECEIVED
DEC 20 2017
DEVELOPMENT SERVICES

DESIGNATED HISTORICAL RESOURCE

Approved per SDMC 143.0220 for this scope of work only.
No changes to these approved plans and scope of work are permitted without review and approval by Plan-Historic staff. Failure to receive advanced approval can result in significant consequences.

Reviewer: Jose Segura Issued: 5/30/20
HRB Site #: 1 Prof #: 1473 Date: 12/18/19

Simpson A23.2A+A34+A35

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 EXP. 08-31-19 STATE OF CALIFORNIA

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HERITAGE ARCHITECTURE & PLANNING

APRIL 12, 2017

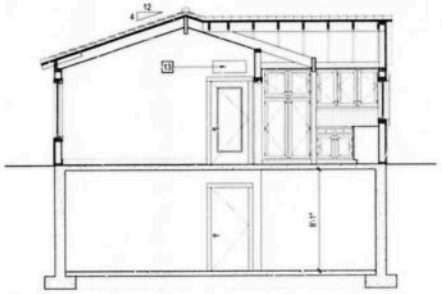
CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: COTTAGE 9 EXTERIOR ELEVATIONS	SHEET NUMBER: A6.3
LAMBERT COORDINATES:204-1721	THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

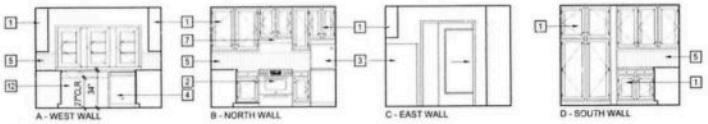
SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY



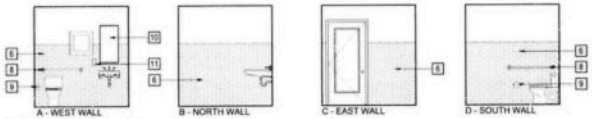
SECTION A-A

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET



(1) KITCHEN 901



(2) RESTROOM 902

INTERIOR ELELVATIONS

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

GENERAL NOTES

1. REFER TO PLUMBING DRAWINGS FOR ALL PLUMBING FIXTURES.
2. REFER TO DOOR AND WINDOW SCHEDULES FOR DOOR AND WINDOW NOTES.
3. ALL KITCHEN APPLIANCES INCLUDING REFRIGERATORS, COOKING EQUIPMENT, AND DISHWASHERS SHALL BE PROVIDED AND INSTALLED BY TENANT. CONTRACTOR TO PROVIDE REQUIRED ELECTRICAL AND PLUMBING CONNECTIONS.
4. REFER TO PROJECT SPECIFICATIONS FOR FULL LIST OF TOILET ACCESSORIES REQUIRED IN EACH RESTROOM. ALL ACCESSORIES LISTED IN THE SPECIFICATIONS SHALL BE PROVIDED WETHER SHOWN ON THESE DRAWINGS OR NOT.
5. SEE DET. 1/A8.4 FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES AND GRAB BARS.

KEY NOTES

1. CUSTOM-FABRICATED WOOD CABINETS PER DET. 7/A8.1. PAINT FINISH.
2. ELECTRIC RANGE TO BE PROVIDED BY TENANT.
3. REFRIGERATOR TO BE PROVIDED BY TENANT.
4. DISHWASHER TO BE PROVIDED BY TENANT.
5. CERAMIC TILE BACKSLASH PER DET. 8/A8.1.
6. CERAMIC TILE WAINSCOT PER DET. 3/A8.1 AND 9/A8.1, TYPICAL ALL WALLS IN RESTROOM.
7. RANGE HOOD PROVIDED BY TENANT. GE PROFILE SERIES JV636HSS OR SIMILAR.
8. WALL-MOUNTED ADA COMPLIANT GRAB BARS.
9. WALL MOUNTED TOILET PAPER DISPENSER.
10. WALL MOUNTED MIRROR TO BE PROVIDED BY TENANT.
11. WALL-MOUNTED SOAP DISPENSER.
12. NO BASE CABINET BELOW SINK TO PROVIDE ADA REQUIRED KNEE CLEARANCE.
13. WALL-MOUNTED HEAT PUMP, REFER TO MECHANICAL DRAWINGS.

APRIL 12, 2017

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 03-31-19 RENEWAL STATE OF CALIFORNIA

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HERITAGE ARCHITECTURE & PLANNING

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

COTTAGE 9 INTERIOR ELEVATIONS

SHEET TITLE:

A6.4

SHEET NUMBER:

LAMBERT COORDINATES:204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

ROOM FINISH SCHEDULE

ROOM NO	ROOM NAME	FLOOR MAT	FINISH	BASE MAT	FINISH	N WALL MAT	FINISH	WSCT	FINISH	E WALL MAT	FINISH	WSCT	FINISH	S WALL MAT	FINISH	WSCT	FINISH	W WALL MAT	FINISH	WSCT	FINISH	CEILING MAT	FINISH	CEILING HEIGHT	PAINT COLOR	KEY NOTES
	COTTAGE 1/2																									
	BASEMENT																									
100B	STORAGE	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	8'-1"	N/A	
101B	SHARED VESTIBULE	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	8'-1"	N/A	
102B	STAIRS	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	VARIES	N/A	
200B	STORAGE	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	8'-1"	N/A	
	FIRST FLOOR																									
100	COTTAGE 1	CT-1	-	WD	P-SG	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	VARIES	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
101	KITCHEN	CT-1	-	WD	P-SG	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	GB	P-E	8'-0"	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
102	SHARED VESTIBULE	CT-1	-	WD	P-SG	GB	P-E	N/A	N/A	GB	P-E	N/A	N/A	GB	P-E	N/A	N/A	GB	P-E	N/A	N/A	GB	P-E	8'-0"	SW0067	
103	RESTROOM/JAN.	CT-2	-	CT-4	-	WRGB	P-E	CT-3	-	WRGB	P-E	CT-3	-	WRGB	P-E	CT-3	-	WRGB	P-E	CT-3	-	GB	P-E	8'-0"	SW0067	
200	COTTAGE 2	CT-1	-	WD	P-SG	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	VARIES	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
201	KITCHEN	CT-1	-	WD	P-SG	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	GB	P-E	8'-0"	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
	COTTAGE 3/4																									
	BASEMENT																									
300B	STORAGE	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	8'-1"	N/A	
301B	STAIRS	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	VARIES	N/A	
400B	STORAGE	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	8'-1"	N/A	
	FIRST FLOOR																									
300	COTTAGE 3	CT-1	-	WD	P-SG	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	VARIES	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
301	KITCHEN	CT-1	-	WD	P-SG	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	CT-3	-	GB	P-E	8'-0"	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
302	RESTROOM	CT-2	-	CT-4	-	WRGB	P-E	CT-3	-	WRGB	P-E	CT-3	-	WRGB	P-E	CT-3	-	WRGB	P-E	CT-3	-	GB	P-E	8'-0"	SW0067	
303	SHARED VESTIBULE	CT-1	-	WD	P-SG	GB	P-E	N/A	N/A	GB	P-E	N/A	N/A	GB	P-E	N/A	N/A	GB	P-E	N/A	N/A	GB	P-E	8'-0"	SW0067	
400	COTTAGE 4	CT-1	-	WD	P-SG	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	VARIES	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
401	KITCHEN	CT-1	-	WD	P-SG	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	GB	P-E	8'-0"	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
	COTTAGE 5/6																									
	BASEMENT																									
500B	STORAGE	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	8'-1"	N/A	
501B	STAIRS	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	VARIES	N/A	
600B	STORAGE	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	8'-1"	N/A	
	FIRST FLOOR																									
500	COTTAGE 5	CT-1	-	WD	P-SG	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	VARIES	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
501	KITCHEN	CT-1	-	WD	P-SG	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	GB	P-E	8'-0"	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
502	RESTROOM	CT-2	-	CT-4	-	WRGB	P-E	CT-3	-	WRGB	P-E	CT-3	-	WRGB	P-E	CT-3	-	WRGB	P-E	CT-3	-	GB	P-E	8'-0"	SW0067	
503	SHARED VESTIBULE	CT-1	-	WD	P-SG	GB	P-E	N/A	N/A	GB	P-E	N/A	N/A	GB	P-E	N/A	N/A	GE	P-E	N/A	N/A	GB	P-E	8'-0"	SW0067	
600	COTTAGE 6	CT-1	-	WD	P-SG	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	VARIES	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
601	KITCHEN	CT-1	-	WD	P-SG	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	GB	P-E	8'-0"	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
	COTTAGE 7/8																									
	BASEMENT																									
700B	STORAGE	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	8'-1"	N/A	
701B	SHARED VESTIBULE	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	VARIES	N/A	
702B	STAIRS	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	VARIES	N/A	
800B	STORAGE	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	8'-1"	N/A	
	FIRST FLOOR																									
700	COTTAGE 7	CONC	SLR	WD	P-SG	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	VARIES	SW0067	
701	KITCHEN	CONC	SLR	WD	P-GS	WRGS	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	GB	P-E	8'-0"	SW0067	
702	SHARED VESTIBULE	CT-1	-	WD	P-SG	GB	P-E	N/A	N/A	GB	P-E	N/A	N/A	GB	P-E	N/A	N/A	GB	P-E	N/A	N/A	GB	P-E	8'-0"	SW0067	
703	RESTROOM/JAN.	CT-2	-	CT-4	-	WRGB	P-E	CT-3	-	WRGB	P-E	CT-3	-	WRGB	P-E	CT-3	-	WRGB	P-E	CT-3	-	GB	P-E	8'-0"	SW0067	
800	COTTAGE 8	CT-1	-	WD	P-SG	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	VARIES	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
801	KITCHEN	CT-1	-	WD	P-SG	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	GB	P-E	8'-0"	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
	COTTAGE 9																									
	BASEMENT																									
900B	STORAGE	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	8'-1"	N/A	
901B	STAIRS	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	N/A	N/A	CONC	SLR	VARIES	N/A	
	FIRST FLOOR																									
900	COTTAGE 9	CT-1	-	WD	P-SG	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	N/A	N/A	GB	P-F	VARIES	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
901	KITCHEN	CT-1	-	WD	P-SG	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	N/A	WRGB	P-E	N/A	-	GB	P-E	8'-0"	SW0067	FLOORING TO BE TENANT PROVIDED CONTRACTOR INSTALLED
902	RESTROOM	CT-2	-	CT-4	-	WRGB	P-E	CT-3	-	WRGB	P-E	CT-3	-	WRGB	P-E	CT-3	-	WRGB	P-E	CT-3	-	GB	P-E	8'-0"	SW0067	
903	SHARED VESTIBULE	CT-1	-	WD	P-SG	GB	P-E	N/A	N/A	GB	P-E	N/A	N/A	GB	P-E	N/A	N/A	GB	P-E	N/A	N/A	GB	P-E	8'-0"	SW0067	

GENERAL NOTES

A. COLORS WILL BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
B. FINISHES ARE NEW U.N.O. IN THE SCHEDULES.
C. TYPICAL THROUGHOUT (INCLUDING STAIRS), ALL INTERIOR WALLS AND CEILINGS SHALL BE PAINTED.
D. PAINT ALL EXPOSED PIPES, CONDUIT, VENTS, GRILLS, AND WALL CAPS TO MATCH THE ADJACENT WALL/CEILING COLOR.
E. WATER RESISTANT WALLS ARE REQUIRED BEHIND ALL SINKS, MOP SINKS, DISHWASHERS. WATER RESISTANT MATERIAL SHALL BE A MINIMUM OF 8' HIGH FRP™ TOP OF THE FLOOR BASE.

SCHEDULE LEGEND

CB	INTEGRAL RSF COVE BASE	PC	POWDER COAT
CONC	CONCRETE	QT	QUARRY TILE
CP	CARPET	RB	RUBBER BASE
CT	CERAMIC TILE	RF	RESILIENT FLOORING
GB	GYPSUM BOARD	SLR	SEALER
N/A	NOT APPLICABLE	SS	STAINLESS STEEL
-	NONE	S/V	STAIN AND VARNISH
PLAM	PLASTIC LAMINATE	TBD	TO BE DETERMINED (BY ARCHITECT)
P-F	PAINT (FLAT)	VCT	VINYL COMPOSITION TILE
P-E	PAINT (EGGSHELL)	WD	WOOD
P-SG	PAINT (SEMI-GLOSS)	WRGB	WATER RESISTANT GYPSUM BOARD
P-G	PAINT (HIGH-GLOSS)		

EXTERIOR PAINT COLOR SCHEDULE

LOCATION	MATERIAL	COLOR #**	COLOR NAME**
EXTERIOR PLASTER	P-F	SW6113	INTERACTIVE CREAM
DOORS/WINDOWS/TRIM - COTTAGE 1	P-SG	SW0016	BILLIARD GREEN
DOORS/WINDOWS/TRIM - COTTAGE 2	P-SG	SW2851	SAGE GREEN LIGHT
DOORS/WINDOWS/TRIM - COTTAGE 3	P-SG	SW2802	ROOKWOOD RED
DOORS/WINDOWS/TRIM - COTTAGE 4	P-SG	SW0048	BUNGLEHOUSE BLUE
DOORS/WINDOWS/TRIM - COTTAGE 5	P-SG	SW0016	BILLIARD GREEN
DOORS/WINDOWS/TRIM - COTTAGE 6	P-SG	SW7748	BUNGLEHOUSE BLUE
DOORS/WINDOWS/TRIM - COTTAGE 7	P-SG	SW2802	ROOKWOOD RED
DOORS/WINDOWS/TRIM - COTTAGE 8	P-SG	SW0016	BILLIARD GREEN
DOORS/WINDOWS/TRIM - COTTAGE 9	P-SG	SW2851	SAGE GREEN LIGHT
EXTERIOR EAVES AND EXPOSED RAFTERS	P-SG	SW2836	POLISHED MAHOGANY
EXTERIOR WROUGHT IRON GRILLES AND ACCENTS	PC	SW2847	ROYCROFT BOTTLE GREEN

** ALL COLOR REFERENCES ARE SHERWIN WILLIAMS PAINT

CERAMIC TILE SCHEDULE

DESIGNATION	SPECIFICATION	DETAIL REF
CT-1	3/8" THICK CERAMIC TILE TO BE PROVIDED BY TENANT & INSTALLED BY CONTRACTOR TILE SELECTION AND COLOR TO BE DETERMIN D.	TCA F132-03
CT-2	DALTILE - PORCELAIN SOLIDS & GRANI. 12"X12" TILE COLOR: UPTOWN TAUPE	3&5/A8.1
CT-3	DALTILE -SEMI-GLOSS 3X6 FIELD TILE, COLOR WHITE K101	3&5/A8.1
CT-4	DALTILE -SEMI-GLOSS 6X6 COVE TRIM, COLOR WHITE K101	3&5/A8.1
CT-5	*KITCHEN BACKSPLASHES NOT NOTED ON FINISH SCHEDULE, REFER TO DETAIL 8/A8.1 FOR SPECIFICATIONS AND COLORS.	8/A8.1

** ALL COLORS SELECTIONS SUBJECT TO FINAL APPROVAL BY TENANTS

APRIL 12, 2017

LICENSED ARCHITECT P.D. MARSHALL C-24785 02-28-19 RENEWAL

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

FINISH SCHEDULE — SHEET TITLE:

A7.1 — SHEET NUMBER

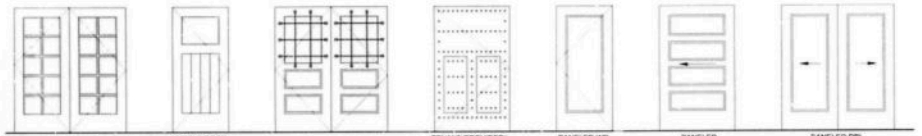
LAMBERT COORDINATES 204-1721 — THOMAS BROTHERS PAGE: 60, D-6 — (PSD #)

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

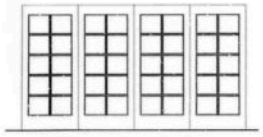
DOOR SCHEDULE

OPENING NUMBER	DOOR SIZE * (WXH)	DOOR TYPE	MAT.	INT. FIN.	FRAME MAT.	EXT. FIN.	HEAD	JAMB	THRESH.	KEY NOTES
	COTTAGE 1/2									
100B-A	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
200B-A	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
100-A	3'-0" X 6'-8	B	WD	P-SG	WD	P-SG	1/A8.2	1/A8.2	2/A8.2	PROVIDE 20 MINUTE FIRE RATED DOOR WITH MULTIPANE TEMPERED GLAZING.
100-B	3'-0" X 6'-8	L	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
101-A	4'-0" X 6'-8	F	WD	P-SG	WD	P-SG	-	-	6/A8.2	
103-A	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
200-A	6'-0" X 6'-8	A	WD	P-SG	WD	P-SG	1/A8.2	1/A8.2	2/A8.2	PROVIDE 20 MINUTE FIRE RATED DOOR WITH MULTIPANE TEMPERED GLAZING.
200-B	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
	COTTAGE 3/4									
300B-A	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
400B-A	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
300-A	6'-0" X 6'-8	A	WD	P-SG	WD	P-SG	1/A8.2	1/A8.2	2/A8.2	PROVIDE 20 MINUTE FIRE RATED DOOR WITH MULTIPANE TEMPERED GLAZING.
300-B	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
301-A	6'-0" X 6'-8	G	WD	P-SG	WD	P-SG	-	-	6/A8.2	
302-A	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
400-A	6'-0" X 6'-8	A	WD	P-SG	WD	P-SG	1/A8.2	1/A8.2	2/A8.2	PROVIDE 20 MINUTE FIRE RATED DOOR WITH MULTIPANE TEMPERED GLAZING.
400-B	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
	COTTAGE 5/6									
500B-A	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
600B-A	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
500-A	6'-0" X 6'-8	C	WD	P-SG	WD	P-SG	1/A8.2	1/A8.2	2/A8.2	DECORATIVE METAL SECURITY GRILLES OVER GLASS LITES ON DOOR, TYPE G8.
500-B	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
501-A	4'-0" X 6'-8	F	WD	P-SG	WD	P-SG	-	-	6/A8.2	
502-A	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
600-A	4'-0" X 6'-8	D	WD	P-SG	WD	P-SG	1/A8.2	1/A8.2	2/A8.2	DOOR AND HARDWARE PROVIDED BY TENANT.
600-B	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
	COTTAGE 7/8									
700B-A	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
800B-A	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
700-A	6'-0" X 6'-8	A	WD	P-SG	WD	P-SG	1/A8.2	1/A8.2	2/A8.2	PROVIDE 20 MINUTE FIRE RATED DOOR WITH MULTIPANE TEMPERED GLAZING.
700-B	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
701-A	5'-0" X 6'-8	G	WD	P-SG	WD	P-SG	-	-	6/A8.2	
703-A	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
800-A	6'-0" X 6'-8	A	WD	P-SG	WD	P-SG	1/A8.2	1/A8.2	2/A8.2	PROVIDE 20 MINUTE FIRE RATED DOOR WITH MULTIPANE TEMPERED GLAZING.
800-B	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
801-	4'-0" X 6'-8	F	WD	P-SG	WD	P-SG	-	-	6/A8.2	
	COTTAGE 9									
900B-A	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	7/A8.2	3/A8.2	6/A8.2	
900-A	12'-0" X 6'-8	H	WD	P-SG	WD	P-SG				20 MINUTE FIRE RATED DOOR WITH MULTIPANE TEMPERED GLAZING, DOOR AND HARDWARE PROVIDED BY TENANT.
900-B	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	
901-A	4'-0" X 6'-8	F	WD	P-SG	WD	P-SG	-	-	6/A8.2	
902-A	3'-0" X 6'-8	E	WD	P-SG	WD	P-SG	3/A8.2	3/A8.2	6/A8.2	

DOOR TYPES



DOUBLE FRENCH DOOR — A
SINGLE DOOR W/ GLASS LITE — B
DBL. DR. W/ GLASS LITE — C
TENANT PROVIDED/ CONTRACTOR INSTALLED — D
PANELED WD. INT DOOR — E
PANELED POCKET DOOR — F
PANELED DBL. POCKET DOOR — G



TENANT PROVIDED/CONTRACTOR INSTALLED — H

SCHEDULE LEGEND

(E)	EXISTING
(N)	NEW
-	NOT APPLICABLE
P-F	PAINT, FLAT
P-SG	PAINT, SEMI-GLOSS
P-G	PAINT, HIGH-GLOSS
PLT	PLATE GLASS
OBS	OBSCURE GLASS
S/V	STAIN AND VARNISH
WD	WOOD

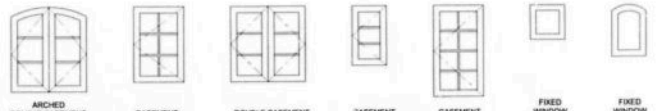
GENERAL NOTES

A. ALL DOORS AND WINDOWS ARE NEW.
B. DOORS SHALL MATCH THE DOOR TYPE IDENTIFIED ON THE SCHEDULE. ALL DOORS TO BE SOLID WOOD U.N.O. STILES AND RAILS SHALL NOT BE LESS THAN 1¾ INCHES THICK. RAISED PANELS SHALL NOT BE LESS THAN 1¼ INCHES THICK; THE EXTERIOR PERIMETER OF THE RAISED PANEL MAY TAPER TO A TONGUE NOT LESS THAN ¾ INCH THICK.
C. WIDTH AND HEIGHT DIMENSIONS ON DOOR AND WINDOW SCHEDULE ARE FOR DOOR OR WINDOW UNIT ONLY. ALL ROUGH OPENINGS SHALL PROVIDE SHIM SPACE BETWEEN WALL AND DOOR FRAME TYPICAL.
D. ALL PAINT COLORS WILL BE SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE.
E. ALL NECESSARY (N) DOOR AND WINDOW HARDWARE SHALL BE PROVIDED BY THE CONTRACTOR. HARDWARE FINISH TO BE OIL RUBBED BRONZE U.N.O.
F. MAXIMUM EFFORT TO OPERATE DOORS WITH AUTOMATIC CLOSERS SHALL NOT EXCEED 5 POUNDS, SUCH PUSH OR PULL EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS (PER CBC SECTION 1133B.2.5). CONTRACTOR TO VERIFY COMPLIANCE PRIOR TO SUBSTANTIAL COMPLETION.
G. REFER TO SHEET A8.3 FOR WINDOW GRILLE TYPES.
H. INTERIOR SECURITY GRILLES PER DETAIL 11/A8.3 SHALL BE PROVIDED AT ALL WINDOWS EXCEPT THOSE NOTED WITH DECORATIVE EXTERIOR METAL OR CONCRETE SECURITY GRILLES.
I. WINDOWS WITH EXTERIOR METAL OR CONCRETE SECURITY GRILLES SHALL BE INWARD OPENING. WINDOWS WITH INTERIOR MOUNTED SECURITY GRILLES SHALL BE OUTWARD OPENING.
J. ALL EXTERIOR DOORS WITH GLASS LITES (TYPES A, B, AND C ABOVE) SHALL BE EQUIPPED WITH INTERIOR SECURITY GRILLES SIMILAR TO DETAIL 11/A8.3 BUT WITH 1/2" SQUARE TUBE STEEL FRAME MOUNTED ON THE INTERIOR FACE OF THE DOOR OVER GLASS PANEL.
K. ALL DOORS AND WINDOWS TO BE DUAL GLAZED, TRUE DIVIDED LITE. REFER TO DETAILS ON SHEET A8.2.
L. ALL DOOR AND WINDOW GLAZING SHALL BE OF SAFETY GLAZING AND COMPLY WITH CBC SECTION 2406 (PER CBC SECTION 708A.2 EXTERIOR GLAZING).
M. CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL ALL TENANT PROVIDED DOORS. COORDINATE TRANSFER WITH TENANT AND VERIFY DOOR SIZE.
N. GLASS TO HAVE A MAXIMUM U-FACTOR OF 0.6, A MAXIMUM SHGC OF 0.2.

WINDOW SCHEDULE

OPENING NUMBER	WINDOW SIZE * (W X H)	WIN. TYPE	MAT.	EXT. FINISH	INT. FINISH	GLASS	FRAME MAT.	EXT. FINISH	INT. FINISH	HEAD	JAMB	SILL	KEY NOTES
	COTTAGE 1/2												
100-01	4'-0" X 4'-6"	A	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	
100-02	4'-0" X 4'-6"	A	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	
100-03	2'-8" X 4'-10"	E	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE SAFETY GLAZING. PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE C
101-01	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2.
101-02	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2.
101-03	1'-10" X 3'-2"	D	WD	P-SG	-	PLT	WD	P-SG	P-SG				PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2
103-01	1'-10" X 1'-10"	F	WD	P-SG	P-SG	Plate	WD	P-SG	P-SG	11/A8.2	11/A8.2	12/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G7
104-01	1'-10" X 1'-10"	F	WD	P-SG	P-SG	Plate	WD	P-SG	P-SG	11/A8.2	11/A8.2	12/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G7.
200-01	2'-8" X 4'-6"	B	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE SAFETY GLAZING.
200-02	4'-0" X 4'-6"	A	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G6.
200-03	4'-0" X 4'-6"	A	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G6
200-04	4'-0" X 6'-0"	C	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE WOOD SHUTTERS PER EXTERIOR ELEVATION.
201-01	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE WOOD SHUTTERS PER EXTERIOR ELEVATION.
201-02	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE WOOD SHUTTERS PER EXTERIOR ELEVATION.
	COTTAGE 3/4												
300-01	1'-10" X 4'-0"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A3.2	8/A8.2	
300-02	1'-10" X 4'-0"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	
300-03	4'-0" X 4'-6"	A	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G6.
300-04	4'-0" X 4'-6"	A	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G6.
300-05	1'-10" X 2'-0"	F	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	11/A8.2	11/A8.2	12/A8.2	PROVIDE SAFETY GLAZING.
301-01	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2.
301-02	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2.
301-03	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2.
303-01	1'-10" X 2'-0"	F	WD	P-SG	P-SG	OBS	WD	P-SG	P-SG	11/A8.2	11/A8.2	11/A8.2	PROVIDE DECORATIVE CONCRETE GRILLE, TYPE G9
400-01	2'-8" X 4'-6"	B	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE SAFETY GLAZING. PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G5.
400-02	4'-0" X 4'-0"	C	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	
400-03	4'-0" X 4'-0"	C	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	
400-04	1'-10" X 4'-0"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	
400-05	1'-10" X 4'-0"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	
401-01	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2
401-02	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2.
401-03	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2.
	COTTAGE 5/6												
500-01	4'-0" X 4'-6"	A	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	
500-02	4'-0" X 4'-6"	A	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	
500-03	4'-0" X 4'-6"	A	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G3.
501-01	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G5.
501-02	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G5.
502-01	1'-10" X 2'-0"	F	WD	P-SG	P-SG	OBS	WD	P-SG	P-SG	11/A8.2	11/A8.2	12/A8.2	PROVIDE DECORATIVE CONCRETE GRILLE, TYPE G9
503-01	1'-10" X 2'-0"	G	WD	P-SG	P-SG	OBS	WD	P-SG	P-SG	11/A8.2	11/A8.2	12/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G8
600-01	2'-0" X 4'-0"	C	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	
600-02	4'-0" X 4'-0"	C	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G4.
600-03	4'-0" X 4'-0"	C	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G4.
600-04	4'-0" X 4'-0"	C	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE WOOD SHUTTERS PER EXTERIOR ELEVATION.
600-05	4'-0" X 4'-0"	C	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE WOOD SHUTTERS PER EXTERIOR ELEVATION.
601-01	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2.
601-02	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2.
	COTTAGE 7/8												
700-01	2'-8" X 5'-2"	E	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE SAFETY GLAZING. PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G8.
700-02	4'-0" X 4'-6"	A	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE WOOD SHUTTERS PER EXTERIOR ELEVATION.
700-03	4'-0" X 4'-6"	A	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE WOOD SHUTTERS PER EXTERIOR ELEVATION.
700-04	4'-0" X 4'-0"	C	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE WOOD SHUTTERS PER EXTERIOR ELEVATION.
701-01	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE WOOD SHUTTERS PER EXTERIOR ELEVATION.
701-02	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2.
703-01	1'-10" X 1'-10"	F	WD	P-SG	P-SG	OBS	WD	P-SG	P-SG	11/A8.2	11/A8.2	12/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G7.
704-01	1'-10" X 1'-10"	F	WD	P-SG	P-SG	OBS	WD	P-SG	P-SG	11/A8.2	11/A8.2	12/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G7.
800-01	4'-0" X 4'-0"	C	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G6
800-02	4'-0" X 4'-0"	C	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G6
801-01	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2.
801-02	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2.
801-03	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2.
	COTTAGE 9												
900-01	4'-0" X 4'-6"	A	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G6
900-02	4'-0" X 4'-6"	A	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	8/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G6
901-01	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2
901-02	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2
901-03	1'-10" X 3'-2"	D	WD	P-SG	P-SG	PLT	WD	P-SG	P-SG	5/A8.2	7/A8.2	8/A8.2	PROVIDE DECORATIVE METAL SECURITY GRILLE, TYPE G2
902-01	1'-10" X 2'-0"	F	WD	P-SG	P-SG	OBS	WD	P-SG	P-SG	11/A8.2	11/A8.2	12/A8.2	PROVIDE DECORATIVE CONCRETE GRILLE, TYPE G9
903-01	2'-8" X 3'-0"	F	WD	P-SG	P-SG	OBS	WD	P-SG	P-SG	11/A8.2	11/A8.2	12/A8.2	PROVIDE DECORATIVE CONCRETE GRILLE, TYPE G10
903-02	2'-8" X 3'-6"	F	WD	P-SG	P-SG	OBS	WD	P-SG	P-SG	11/A8.2	11/A8.2	12/A8.2	PROVIDE DECORATIVE CONCRETE GRILLE, TYPE G10

WINDOW TYPES



ARCHED DOUBLE CASEMENT — A
CASEMENT — B
DOUBLE CASEMENT — C
CASEMENT — D
CASEMENT — E
FIXED WINDOW — F
FIXED WINDOW — G

APRIL 12, 2017

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CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

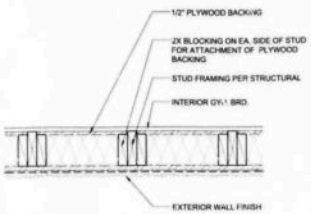
INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

DOOR & WINDOW SCHEDULES — SHEET TITLE

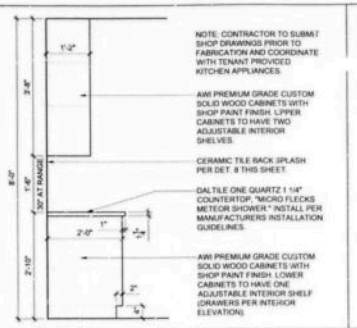
A7.2 — SHEET NUMBER

LAMBERT COORDINATES 204-1721 — THOMAS BROTHERS PAGE: 60, D-6 — (PSD #)

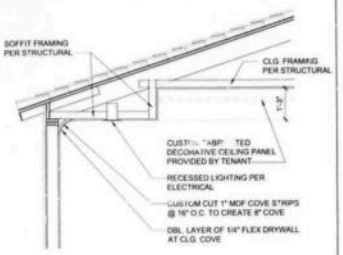
SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY



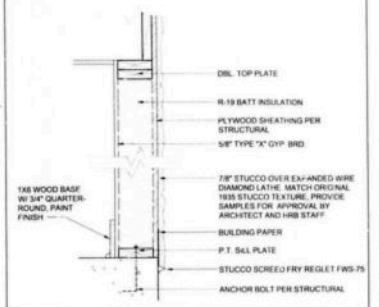
ART WALL BACKING | SCALE: 1 1/2" = 1'-0" | 10



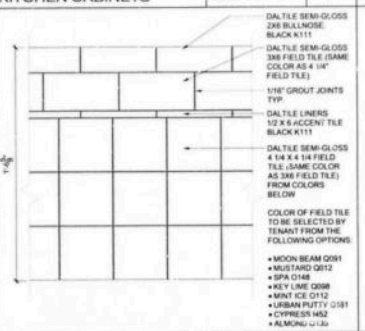
KITCHEN CABINETS | SCALE: 3/4" = 1'-0" | 7



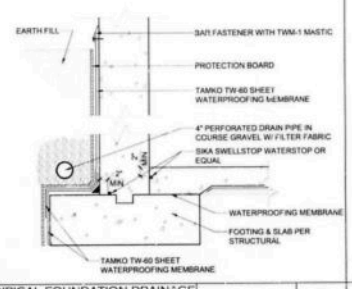
COTTAGE 5 CEILING | SCALE: 1/2" = 1'-0" | 4



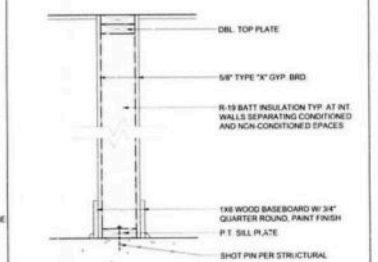
TYP. EXTERIOR WALL | SCALE: 1 1/2" = 1'-0" | 1



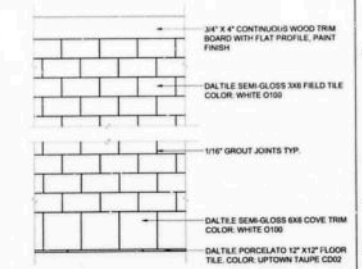
KITCHEN BACKSPLASH | SCALE: 3" = 1'-0" | 8



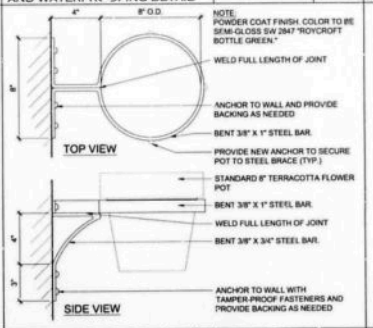
TYPICAL FOUNDATION DRAINAGE AND WATERPROOFING DETAIL | SCALE: 1" = 1'-0" | 5



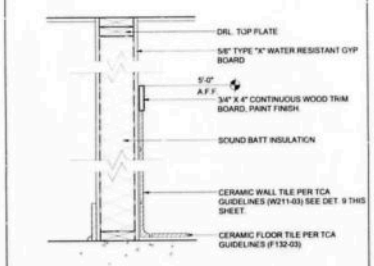
TYP. INTERIOR PARTITION | SCALE: 1 1/2" = 1'-0" | 2



RESTROOM C.T. WAINSCOT | SCALE: 1 1/2" = 1'-0" | 9



FLOWER POT HOLDER | SCALE: 3" = 1'-0" | 6



CERAMIC TILE WAINSCOT | SCALE: 1 1/2" = 1'-0" | 3

APRIL 12, 2017

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INTERNATIONAL COTTAGES

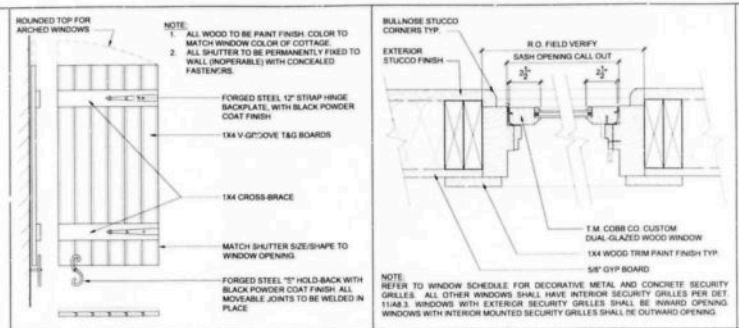
(A PORTION OF BALBOA PARK)

SHEET TITLE: WALL DETAILS

SHEET NUMBER: A8.1

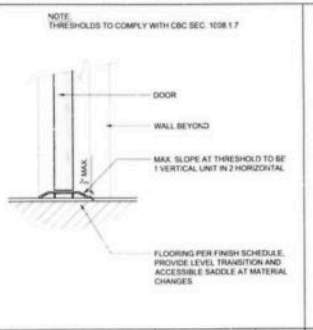
LAMBERT COORDINATES:204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

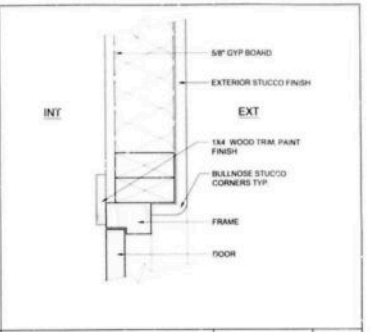


13 WINDOW SHUTTERS SCALE: 1" = 1'-0" 10

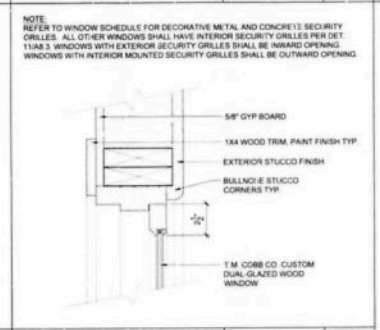
SINGLE CASEMENT JAMB SCALE: 3" = 1'-0" 7



DOOR THRESHOLD SCALE: 3" = 1'-0" 4

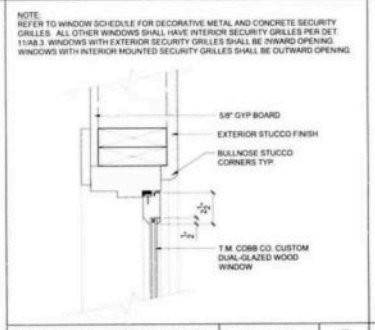


EXT. DOOR HEAD/JAMB SCALE: 3" = 1'-0" 1

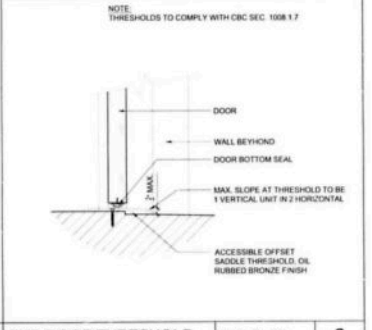


FIXED WNDW HEAD/JAMB SCALE: 3" = 1'-0" 11

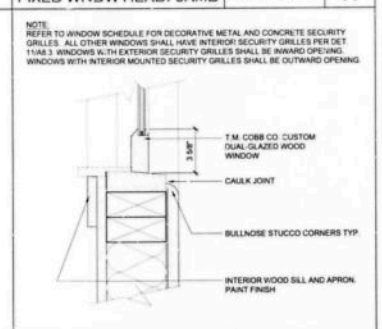
DBL. CASEMENT JAMB SCALE: 3" = 1'-0" 8



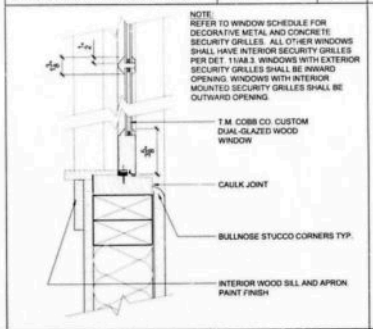
CASEMENT WNDW HEAD SCALE: 3" = 1'-0" 5



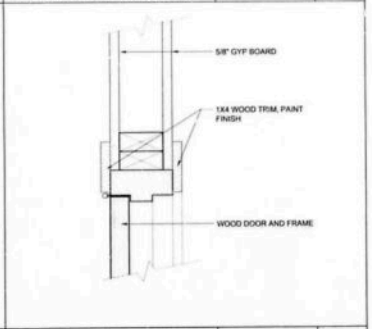
EXT. DOOR THRESHOLD SCALE: 3" = 1'-0" 2



FIXED WINDOW SILL SCALE: 3" = 1'-0" 12



CASEMENT WNDW SILL SCALE: 3" = 1'-0" 6



INT. DOOR HEAD/JAMB SCALE: 3" = 1'-0" 3

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

APRIL 12, 2017

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INTERNATIONAL COTTAGES

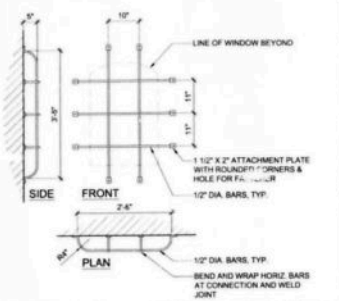
(A PORTION OF BALBOA PARK)

DOOR & WINDOW DETAILS — SHEET TITLE

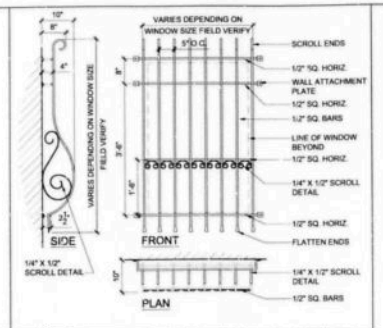
A8.2 — SHEET NUMBER

LAMBERT COORDINATES:204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

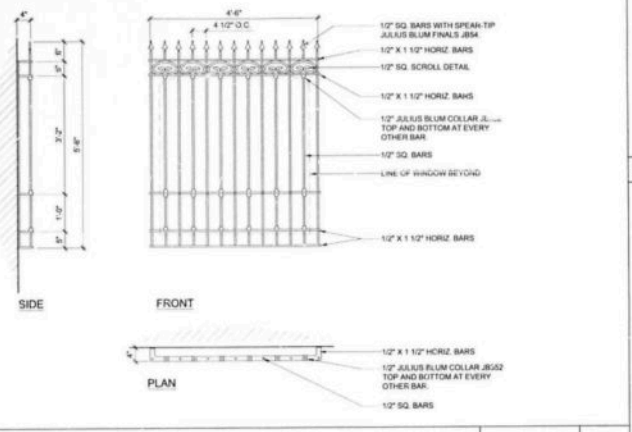
DEC 2017



WINDOWS GRILLES G8 | SCALE: 3/4" = 1'-0" | 9



WINDOW GRILLE G5 | SCALE: 3/4" = 1'-0" | 6

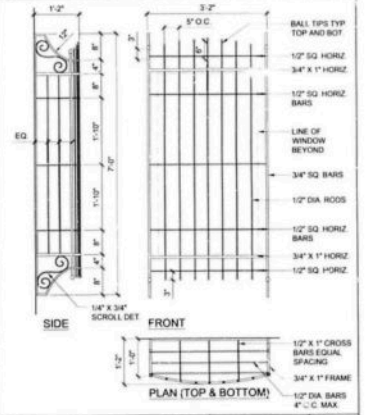


WINDOW GRILLE G3 | SCALE: 3/4" = 1'-0" | 4

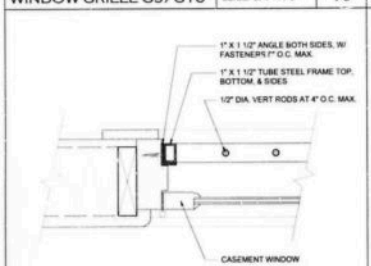
GENERAL WINDOW GRILLE NOTES (APPLICABLE TO ALL WINDOW GRILLES):

1. METAL WINDOW GRILLES SHALL BE CONSTRUCTED OF FORGED STEEL.
2. POWDER COAT FINISH TYPICAL. SEMI-GLOSS SW2847 "ROYCROFT BOTTLE GREEN" U.N.O.
3. ALL WINDOW GRILLES SHALL BE CUSTOM FABRICATED U.N.O.
4. WINDOW GRILLES SHALL BE SHOP FABRICATED AND FINISHED.
5. CONTRACTOR TO FIELD VERIFY ALL WINDOW DIMENSIONS PRIOR TO FABRICATION.
6. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY ARCHITECT PRIOR TO FABRICATION.
7. SHOP DRAWINGS SHALL INCLUDE ATTACHMENT DETAILS.
8. CONTRACTOR TO PROVIDE REPRESENTATIVE MOCK-UP SAMPLE TO DISPLAY MATERIALS, WORKMANSHIP, AND FINISH FOR REVIEW AND APPROVAL BY ARCHITECT PRIOR TO FABRICATION.
9. ALL EXPOSED ANCHORS AND ANCHORS SHALL BE TAMPER RESISTANT.
10. ALL STEEL CONNECTIONS TO BE WELDED.
11. CONTRACTOR TO PROVIDE BACKING AS NEEDED FOR ALL WALL ANCHORS.

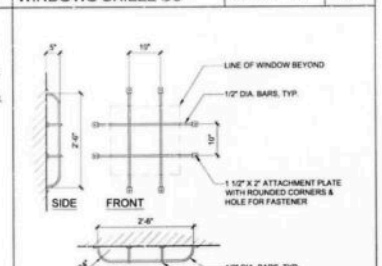
GENERAL NOTES | N.T.S. | 1



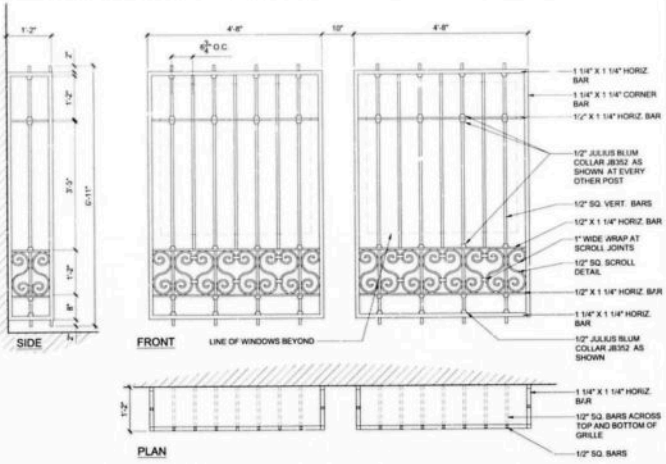
WINDOW GRILLE G1 | SCALE: 3/4" = 1'-0" | 2



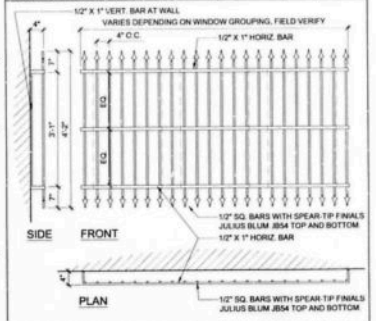
WINDOW GRILLE G9/G10 | SCALE: 3/4" = 1'-0" | 10



WINDOWS GRILLE G6 | SCALE: 3/4" = 1'-0" | 7



WINDOW GRILLE G4 | SCALE: 3/4" = 1'-0" | 5

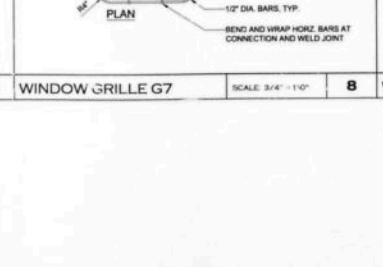


WINDOW GRILLE G2 | SCALE: 3/4" = 1'-0" | 3

NOTE

1. INTERIOR SECURITY GRILLES SHALL BE INSTALLED AT ALL WINDOWS NOT EQUIPPED WITH EXTERIOR WINDOW GRILLES.
2. INTERIOR SECURITY GRILLES SHALL HAVE SEMI-GLOSS BLACK POWDER COATED FINISH.

INT. SECURITY GRILLE G11 | SCALE: 3" = 1'-0" | 11



WINDOW GRILLE G7 | SCALE: 3/4" = 1'-0" | 8

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

WINDOW GRILLE DETAILS | A8.3

SHEET TITLE: | SHEET NUMBER:

LAMBERT COORDINATES 204-1721 | THOMAS BROTHERS PAGE: 60, D-6 | (PSD #)

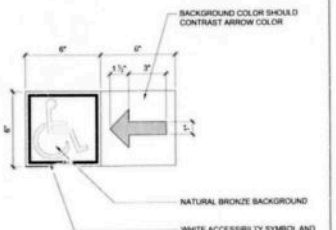
LICENSED ARCHITECT P. DAVID MARSHALL C-24785 STATE OF CALIFORNIA

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

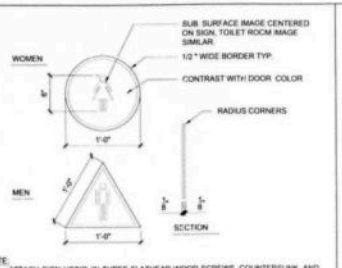
HERITAGE ARCHITECTURE & PLANNING

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY



ACCESSIBLE ROUTE SIGN

SCALE: 3" = 1'-0" | 9



NOTE:
1. ATTACH SIGN USING (3) THREE FLATHEAD WOOD SCREWS, COUNTERSUNK, AND ADHESIVE. SIGN SHALL BE MOUNTED ON THE DOOR OR ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR 60" ABOVE THE FLOOR.
2. REFER TO DETAIL 5/A8.2 FOR REQUIRED MOUNTING HEIGHTS.

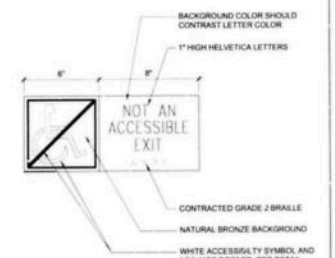
RESTROOM DOOR SIGN

SCALE: 1 1/2" = 1'-0" | 6

NOTES:
1. PROVIDE MINIMUM 30" X 48" CLEAR SPACE IN FRONT OF FIXTURE (I.E. LAVATORY, TOILET AND URINAL).
2. FAUCET CONTROLS & OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO MORE THAN 5 LBS. LEVER OPERATED, PUSH TYP. & ELECTRONICALLY CONTROLLED MECHANISMS ARE ACCEPTABLE. SELF CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
3. WATER & DRAIN PIPES ACCESSIBLE UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE OBJECTS OR SURFACES UNDER LAVATORIES. CBC 11B-606.5

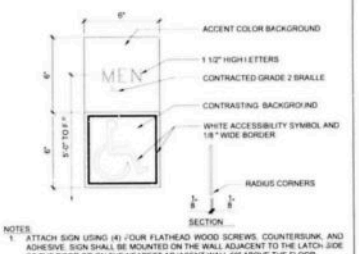
TYP. LAVATORY & TOILET ACCESSORY MOUNTING HEIGHTS

SCALE: 1/2" = 1'-0" | 3



NOT- ACCESSIBLE SIGN

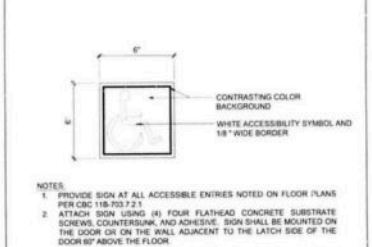
SCALE: 3" = 1'-0"



NOTES:
1. ATTACH SIGN USING (4) FOUR FLATHEAD WOOD SCREWS, COUNTERSUNK, AND ADHESIVE. SIGN SHALL BE MOUNTED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR OR ON THE NEAREST ADJACENT WALL 60" ABOVE THE FLOOR.
2. LETTER STYLE TO BE SANS-SERIF UPPER CASE, ACCOMPANIED BY GRADE 2 BRAILLE.
3. SIGN COLOR TO BE SELECTED BY ARCHITECT. CONTRACTOR TO PROVIDE COLOR SAMPLES FOR SELECTION.

ACCESSIBLE RESTROOM SIGN

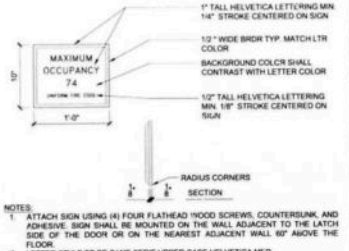
SCALE: 3" = 1'-0" | 7



NOTES:
1. PROVIDE SIGN AT ALL ACCESSIBLE ENTRIES NOTED ON FLOOR PLANS PER CBC 11B-703.7.2.1.
2. ATTACH SIGN USING (4) FOUR FLATHEAD CONCRETE SUBSTRATE SCREWS, COUNTERSUNK, AND ADHESIVE. SIGN SHALL BE MOUNTED ON THE DOOR OR ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR 60" ABOVE THE FLOOR.
3. ATTACH SIGN TO DOOR GLAZING, WHERE OCCURS, USING CLEAR SILICONE SEALANT.
4. SIGN COLOR TO BE SELECTED BY ARCHITECT. CONTRACTOR TO PROVIDE COLOR SAMPLES FOR SELECTING.

ACCESSIBILITY SIGN

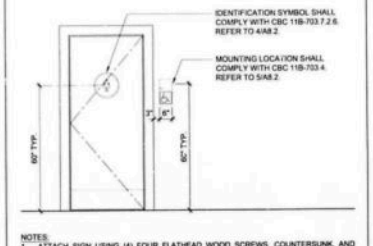
SCALE: 3" = 1'-0" | 4



NOTES:
1. ATTACH SIGN USING (4) FOUR FLATHEAD WOOD SCREWS, COUNTERSUNK, AND ADHESIVE. SIGN SHALL BE MOUNTED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR OR ON THE NEAREST ADJACENT WALL 60" ABOVE THE FLOOR.
2. LETTER STYLE TO BE SANS-SERIF UPPER CASE HELVETICA MED.
3. MOUNTING LOCATION TO BE VERIFIED WITH ARCHITECT.
4. CONTRACTOR TO OBTAIN MAXIMUM OCCUPANT LOAD FOR EACH SPACE FROM ARCHITECT PRIOR TO FABRICATION OF SIGNS (EACH SPACE HAS DIFFERENT OCCUPANT LOAD BASED ON USE AND SIZE).

MAX. OCCUPANCY SIGN

SCALE: 1 1/2" = 1'-0" | 8



NOTES:
1. ATTACH SIGN USING (4) FOUR FLATHEAD WOOD SCREWS, COUNTERSUNK, AND ADHESIVE.
2. LETTER STYLE TO BE SANS-SERIF UPPER CASE ACCOMPANIED BY GRADE 2 BRAILLE. COLORS TO BE SELECTED BY THE ARCHITECT.
3. SIGNAGE SHALL BE MOUNTED IN A LOCATION APPROVED BY THE ARCHITECT.

RESTROOM SIGNAGE

SCALE: 1/2" = 1'-0" | 5

GENERAL ACCESSIBILITY SIGNAGE NOTES:
1. GENERAL. NEW OR ALTERED SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH CBC SECTION 11B-216 AND SHALL COMPLY WITH CBC SECTION 11B-703.
2. DESIGNATIONS, INTERIOR AND EXTERIOR SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL COMPLY WITH CBC SECTIONS 11B-703.1, 11B-703.2, 11B-703.3 AND 11B-703.5. WHERE PICTOGRAMS ARE PROVIDED AS DESIGNATIONS OF PERMANENT ROOMS AND SPACES, THE PICTOGRAMS SHALL COMPLY WITH SECTION 11B-703.6 AND SHALL HAVE TEXT DESCRIPTORS COMPLYING WITH SECTIONS 11B-703.2 AND 11B-703.5.
3. DIRECTIONAL AND INFORMATIONAL SIGNS. SIGNS THAT PROVIDE DIRECTION TO OR INFORMATION ABOUT INTERIOR AND EXTERIOR SPACES AND FACILITIES OF THE SITE SHALL COMPLY WITH CBC SECTION 11B-703.5.
4. ACCESSIBILITY SIGNS. WHEN SIGNS IDENTIFY, DIRECT OR GIVE INFORMATION ABOUT ACCESSIBLE ELEMENTS AND FEATURES OF A BUILDING OR SITE, THEY SHALL INCLUDE THE APPROPRIATE SYMBOL OF ACCESSIBILITY AND SHALL COMPLY WITH CBC SECTION 11B-703.
5. FINISH AND CONTRAST. CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NONGLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.
6. PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".
7. CHARACTER HEIGHT. MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 11B-703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "I".
8. RAISED CHARACTERS. RAISED CHARACTERS SHALL COMPLY WITH SECTION 11B-703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH SECTION 11B-703.4.
   A. DEPTH. RAISED CHARACTERS SHALL BE 1/32 INCH MINIMUM ABOVE THEIR BACKGROUND.
   B. CASE. CHARACTERS SHALL BE UPPERCASE.
   C. STYLE. CHARACTERS SHALL BE SANS SERIF. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.
   D. CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I".
   E. CHARACTER HEIGHT. CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" MINIMUM AND 2" MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
   F. STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.
   G. CHARACTER SPACING. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM. WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE BASE OF THE CROSS SECTIONS AND 1/8 INCH MINIMUM AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAXIMUM AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8 INCH MINIMUM.
   H. LINE SPACING. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE RAISED CHARACTER HEIGHT.
   I. FORMAT. TEXT SHALL BE IN A HORIZONTAL FORMAT.
9. BRAILLE. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTION 11B-703.3 AND 11B-703.4.
   A. DIMENSIONS AND CAPITALIZATION. BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS AND ACRONYMS.
   B. POSITION. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED. IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM AND 1/2 INCH MAXIMUM FROM ANY OTHER TACTILE CHARACTERS AND 3/8 INCH MINIMUM FROM RAISED BORDERS AND DECORATIVE ELEMENTS.
10. INSTALLATION HEIGHT AND LOCATION. SIGNS WITH TACTILE CHARACTERS SHALL COMPLY WITH SECTION 11B-703.4.
   A. HEIGHT ABOVE FINISH FLOOR OR GROUND. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.
   B. LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF THE DOUBLE DOOR OR AT THE RIGHT SIDE OF THE DOUBLE DOOR, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. WHERE PERMANENT IDENTIFICATION SIGNAGE IS PROVIDED FOR ROOMS AND SPACES THEY SHALL BE LOCATED AT THE APPROACH SIDE OF THE DOOR AS ONE ENTERS THE ROOM OR SPACE. SIGNS THAT IDENTIFY EXITS SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE EXITS THE ROOM OR SPACE.

GENERAL NOTES

DEC 2017

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

ACCESSIBILITY DETAILS
SHEET TITLE:

A8.4
SHEET NUMBER:

LAMBERT COORDINATES 204-1721 | THOMAS BROTHERS PAGE: 60, D-6 | (PSD #)

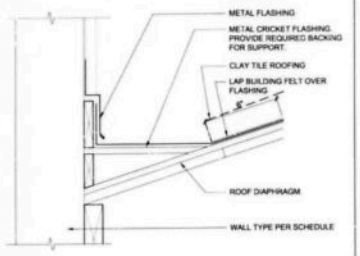
LICENSED ARCHITECT P. DAVID MARSHALL C-24785 31-01-18 REGISTERED PROFESSIONAL ARCHITECT

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

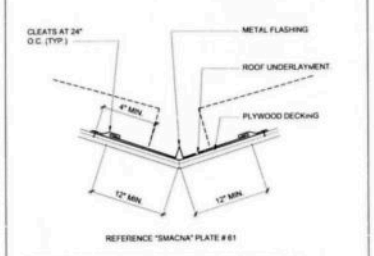
SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY



REFERENCE "SMACNA" PLATE # 57 & # 70

CRICKET FLASHING

SCALE: 3" = 1'-0" | 13

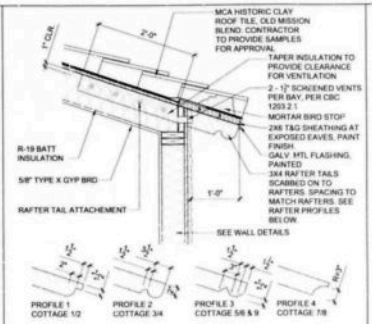


REFERENCE "SMACNA" PLATE # 61

NOTE: VALLEY FLASHINGS SHALL BE NOT LESS THAN 0.019-INCH (NO. 26 GALVANIZED SHEET GAGE) CORROSION-RESISTANT METAL INSTALLED OVER A MINIMUM 36-INCH-WIDE UNDERLAYMENT CONSISTING OF ONE LAYER OF NO. 72 ASTM CAP SHEET RUNNING THE FULL LENGTH OF THE VALLEY.

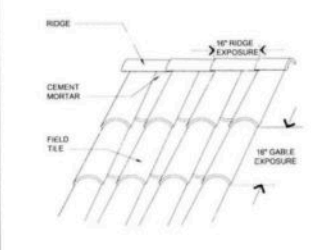
VALLEY DETAIL

SCALE: 1 1/2" = 1'-0" | 10



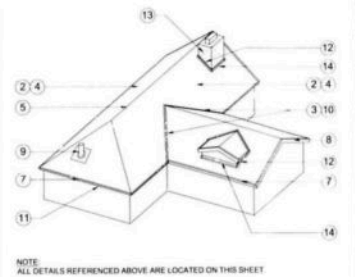
EAVE DETAIL

SCALE: 1" = 1'-0" | 7



TYP. CLAY TILE LAYOUT

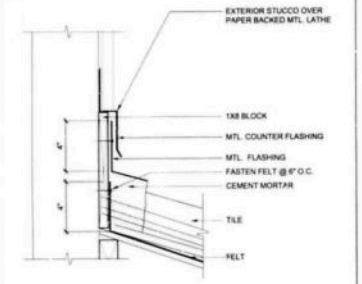
SCALE: 3" = 1'-0" | 4



NOTE:
ALL DETAILS REFERENCED ABOVE ARE LOCATED ON THIS SHEET.

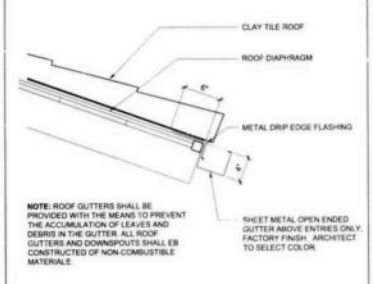
ROOF DETAIL REFERENCE

N.T.S. | 1



FLASHING AT WALL

SCALE: 3" = 1'-0" | 14

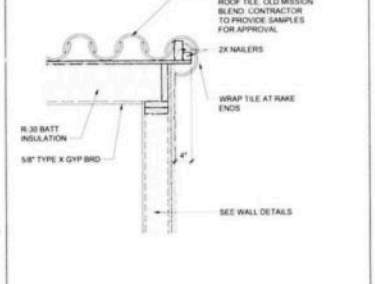


NOTE: ROOF GUTTERS SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER. ALL ROOF GUTTERS AND DOWNSPOUTS SHALL EB CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS.

SHEET METAL OPEN ENDED GUTTER ABOVE ENTRIES ONLY. FACTORY FINISH. ARCHITECT TO SELECT COLOR.

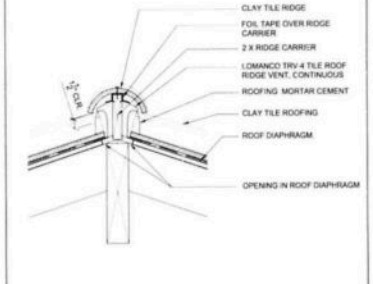
EDGE FLASHING

SCALE: 1 1/2" = 1'-0" | 11



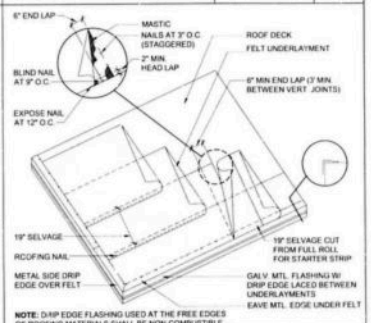
GABLE END/RAKE

SCALE: 1" = 1'-0" | 8



RIDGE/HIP DETAIL

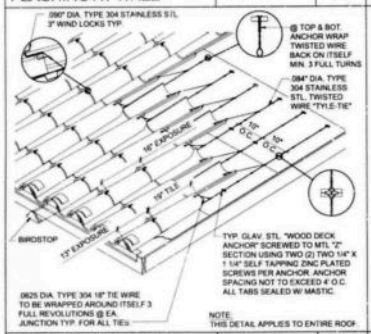
SCALE: 1 1/2" = 1'-0" | 5



NOTE: D/HIP EDGE FLASHING USED AT THE FREE EDGES OF ROOFING MATERIALS SHALL BE NON-COMBUSTIBLE

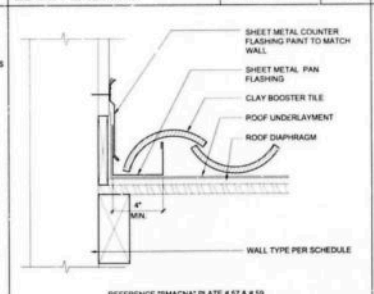
FELT UNDERLAYMENT

N.T.S. | 2



"TYLE-TYE" WIRE TIE

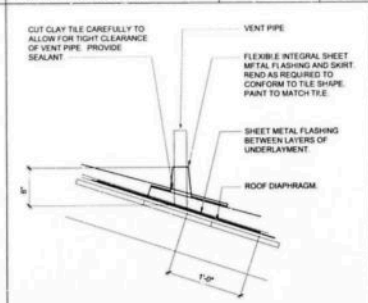
N.T.S. | 15



REFERENCE "SMACNA" PLATE # 57 & # 59

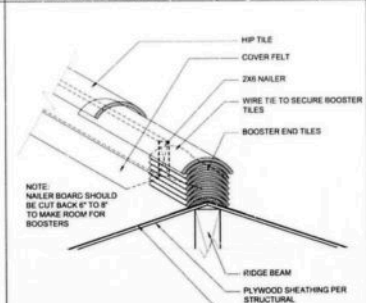
SIDE WALL DETAIL

SCALE: 3" = 1'-0" | 12



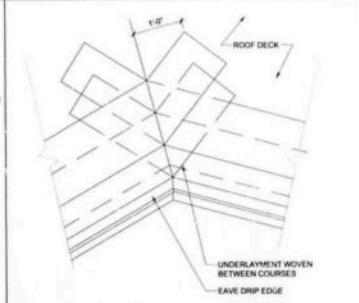
TYP. PIPE PENETRATION

SCALE: 1 1/2" = 1'-0" | 9



RIDGE/HIP END BOOSTER

SCALE: 1 1/2" = 1'-0" | 6



VALLEY UINDERLAYMENT

SCALE: 1" = 1'-0" | 3

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ROOF DETAILS

SHEET TITLE:

A8.5

SHEET NUMBER:

LAMBERT COORDINATES:204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 01-31-19 RENEWAL STATE OF CALIFORNIA

ARCHITECT OF WORK

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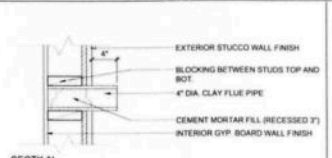
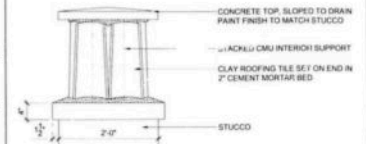
HERITAGE ARCHITECTURE & PLANNING

SHEET SIZE, AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

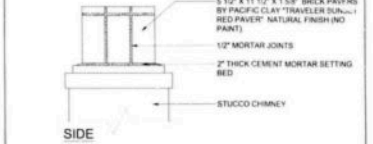
DEC 2017



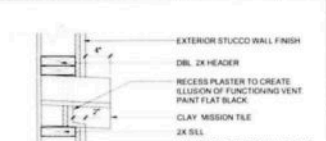
DECORATIVE GABLE VENT | SCALE: 1 1/2" = 1'-0" | 6



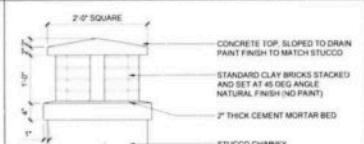
DECORATIVE CHIMNEY CAP | SCALE: 1" = 1'-0" | 3



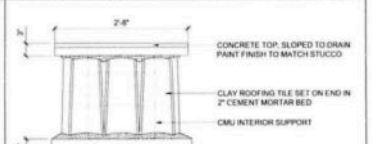
DECORATIVE CHIMNEY CAP | SCALE: 1" = 1'-0" | 1

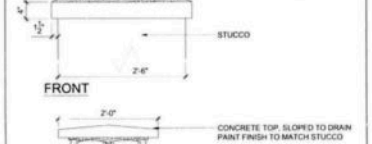


DECORATIVE GABLE VENT | SCALE: 1 1/2" = 1'-0" | 7



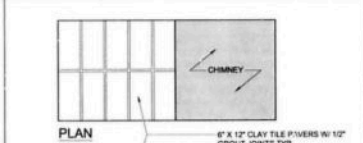
DECORATIVE CHIMNEY CAP | SCALE: 1" = 1'-0" | 4





DECORATIVE CHIMNEY CAP | SCALE: 1" = 1'-0" | 2

DECORATIVE RAFTERS | SCALE: 1 1/2" = 1'-0" | 8



CLAY TILE CHIMNEY CAP | SCALE: 1" = 1'-0" | 5

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

CHIMNEY & ORNAMENTATION DETAILS

SHEET TITLE:

A8.6

SHEET NUMBER:

(PSD #)

LAMBERT COORDINATES 204-1721

THOMAS BROTHERS PAGE: 60, D-6

LICENSED ARCHITECT P. DAVID MARSHALL C-24785 EXP. 08-31-18 STATE OF CALIFORNIA

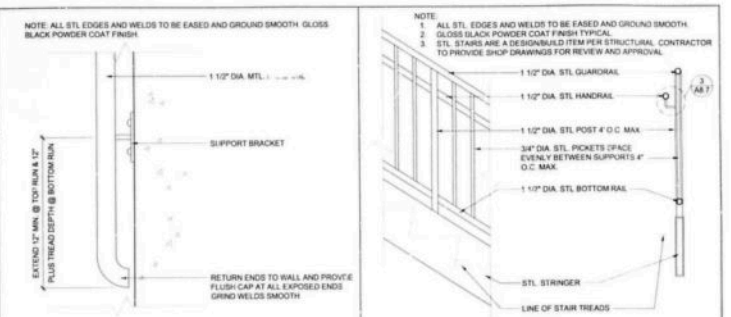
ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

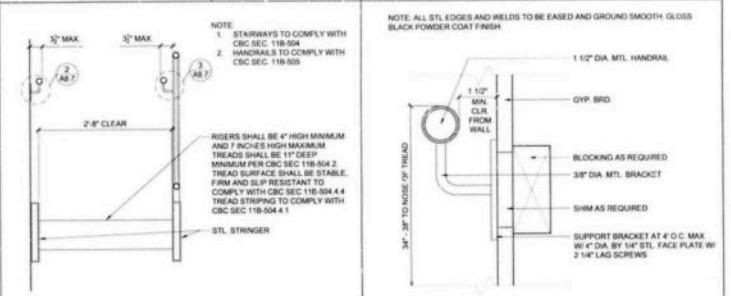
SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

DEC 2017



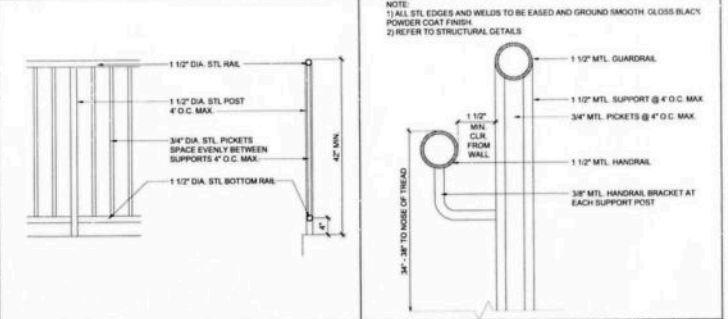
HANDRAIL EXTENSION & CAP | SCALE: 3" = 1'-0" | 4

TYP. INT. STAIR RAIL | SCALE: 1" = 1'-0" | 1



TYP. INT. STAIR RAIL | SCALE: 1" = 1'-0" | 5

HANDRAIL @ STUD WALL | SCALE: 6" = 1'-0" | 2



TYP. GUARDRAIL | SCALE: 1" = 1'-0" | 6

HANDRAIL @ GUARDRAIL | SCALE: 6" = 1'-0" | 3

APRIL 12, 2017

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: STAIR DETAILS

SHEET NUMBER: A8.7

LAMBERT COORDINATES 204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

SHEET SIZE AND SCALE: IF SHEET IS LESS THAN 42" x 30", IT IS REDUCED PRINT - SCALE ACCORDINGLY

General Structural Notes

I. GENERAL

1. MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2013 EDITION OF THE CALIFORNIA BUILDING CODE WITH THE CITY OF SAN DIEGO AMMENDMENTS, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

2. THESE GENERAL NOTES SUPPLEMENT THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN THE PLANS AND SPECIFICATIONS, CONTACT THE OWNER'S REPRESENTATIVE.

3. REFERENCE TO CODES, RULES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS OF REGULATORY AGENCIES IS TO THE LATEST PRINTED EDITION OF EACH IN EFFECT AT THE DATE OF SUBMISSION OF BID UNLESS THE DOCUMENT DATE IS SHOWN.

4. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.

5. "TYPICAL DETAILS" APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. SUCH DETAILS ARE NOT NOTED AT EACH LOCATION THAT THEY OCCUR.

6. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND FOR CHECKING DIMENSIONS. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES AND RESOLVE BEFORE PROCEEDING WITH THE WORK.

7. DO NOT SCALE THE DRAWINGS.

8. PROVIDE MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES INCLUDE, BUT MAY NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DURING CONSTRUCTION. RETAIN A REGISTERED CIVIL ENGINEER WHO IS PROPERLY QUALIFIED TO DESIGN BRACING, SHORING, ETC. VISITS TO THE SITE BY THE OWNER'S REPRESENTATIVE WILL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.

9. INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.

10. REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF FLOOR, ROOF AND WALL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE THE SIZE AND LOCATION OF OPENINGS ASSOCIATED WITH, BUT NOT LIMITED TO, ELECTRICAL, MECHANICAL AND PLUMBING TRADES. SUBMIT FINAL SIZING AND LOCATION REQUIREMENTS OF OPENINGS TO THE OWNER'S REPRESENTATIVE FOR REVIEW.

11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK TO ENSURE THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST DAMAGE BY FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH THIS WORK.

II. FOUNDATION AND SITE WORK

1. THE DESIGN OF THE FOUNDATION SYSTEM IS BASED UPON THE CRITERIA AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL INVESTIGATION REPORT ENTITLED: PRELIMINARY GEOTECHNICAL INVESTIGATION – PROPOSED NEW INTERNATIONAL COTTAGES PREPARED BY CONSTRUCTION TESTING & ENGINEERING DATED MAY 31, 2015.

2. LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND/OR AFTER CONSTRUCTION.

3. REMOVE ABANDONED FOOTINGS, UTILITIES, ETC. WHICH INTERFERE WITH NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED. NOTIFY THE OWNER'S REPRESENTATIVE IF ANY BURIED STRUCTURES NOT INDICATED, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., ARE FOUND.

4. REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE.

5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING, AND PROTECTION OF EXISTING CONSTRUCTION.

6. EXCAVATIONS FOR FOUNDATIONS MUST BE ACCEPTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING REINFORCING AND CONCRETE. NOTIFY THE GEOTECHNICAL ENGINEER WHEN EXCAVATIONS ARE READY FOR INSPECTION. ADJUSTMENTS OR OTHER REMEDIAL ACTIONS MAY TAKEN, AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND OWNER'S REPRESENTATIVE.

7. FOOTING ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY AND ARE ASSUMED TO BE IN SUITABLE BEARING MATERIALS. EXCAVATIONS FOR FOUNDATIONS MUST BE ACCEPTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING REINFORCING AND CONCRETE. NOTIFY THE GEOTECHNICAL ENGINEER WHEN EXCAVATIONS ARE READY FOR INSPECTION. ADJUSTMENTS OR OTHER REMEDIAL ACTIONS MAY TAKEN, AS DIRECTED BY THE GEOTECHNICAL ENGINEER AND OWNER'S REPRESENTATIVE.

8. THE CONTRACTOR SHALL PLACE FILL AND PERFORM SOIL COMPACTION IN ACCORDANCE WITH GEOTECHNICAL REPORT RECOMMENDATIONS.

III. REINFORCING STEEL

1. REINFORCING TO CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:

LOCATION	TYPE
REINFORCING STEEL #7 AND SMALLER	ASTM A615, 60 KSI
REINFORCING STEEL #8 AND LARGER & REINFORCING STEEL TO BE WELDED	ASTM A706, 60 KSI
SMOOTH STEEL WIRE FOR SPIRALS	ASTM A82, 70 KSI
WELDED STEEL WIRE FABRIC	ASTM A185, 70 KSI
SMOOTH DOWELS IN SLAB ON GRADE	ASTM A36, 36 KSI
DEFORMED BAR ANCHORS NELSON/TRW TYPE "D2L" PER ICBO REPORT ER-5217 OR APPROVED EQUAIN ENT	ASTM A496, 70 KSI

2. ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT FROM DISPLACING DUE TO FORMWORK, CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING BY METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS AT A MAXIMUM 3-FOOT SPACING.

3. MECHANICAL COUPLERS: LENTON THREADED OR INTERLOCK COUPLERS BY ERICO, IAPMO-ER-0129, OR XTENDER BY HEADED REINFORCEMENT CORPORATION, ICC-ES ESR-2764, COUPLERS FOR BEAM AND SLAB BARS AT FORMED CONSTRUCTION JOINTS MAY BE LENTON FORM SAVERS BY ERICO, IAPMO-ER-0129.

4. WELD REINFORCING STEEL IN ACCORDANCE WITH AWS D1.4 USING QUALIFIED WELDERS.

5. TERMINATE REINFORCING STEEL IN STANDARD HOOKS, UNLESS OTHERWISE SHOWN.

6. PROVIDE REINFORCING SHOWN OR NOTED CONTINUOUS IN LENGTHS AS LONG AS PRACTICABLE.

IV. CAST-IN-PLACE CONCRETE

1. CONCRETE IS REINFORCED AND CAST-IN-PLACE UNLESS OTHERWISE NOTED. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.

2. ROUGHEN CONCRETE SURFACES OF CONSTRUCTION JOINTS TO 1/4 INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES. LOCATE CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS. SUBMIT ALTERNATE JOINT LOCATIONS OR JOINTS NOT SHOWN TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE WORK.

3. AT LOCATIONS WHERE CONCRETE IS CAS: ...T EXISTING CONCRETE, ROUGHEN CONTACT SURFACES TO 1/4 INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES.

4. AT LOCATIONS WHERE CONCRETE IS CAST AGAINST EXISTING MASONRY, THOROUGHLY ROUGHEN CONTACT SURFACES BY LIGHT SANDBLASTING OR OTHER SUITABLE MEANS AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES.

5. CONCRETE CLEAR COVER TO REINFORCING BARS IS AS FOLLOWS, UNLESS OTHERWISE NOTED:

LOCATION	CLEAR COVER
CONCRETE PLACED AGAINST EARTH	3 INCHES
FORMED SURFACES EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: #6 BARS AND LARGER #5 BARS AND SMALLER	2 INCHES 1 1/2 INCHES
SLABS ON GRADE (TOP CLEARANCE)	1 1/2 INCHES
BEAMS, GIRDERS AND COLUMNS NOT EXPOSED TO WEATHER OR EARTH	1 1/2 INCHES
WALL OR SLAB SURFACES NOT EXPOSED TO WEATHER OR EARTH: #5 & SMALLER #6 & #7 #8,#9,#10 & #11 #14 & #18	3/4 INCH 1 INCH 1 1/2 INCHES 2 1/2 INCHES

6. CONCRETE TYPES:

CLASS	28-DAY STRENGTH	TYPE	LOCATION
A	3000 PSI	N.W.C.	FOUNDATIONS, RETAINING WALLS AND SLABS ON GRADE, ETC
B	3000 PSI	N.W.C.	CONCRETE OVER METAL DECK

NOTES:
1. 3,000 PSI CONCRETE IS SPECIFIED. HOWEVER, 2,500 PSI CONCRETE IS REQUIRED BY CALCULATION. THEREFORE, NO SPECIAL INSPECTION IS REQUIRED FOR THE CONCRETE OR REINFORCING STEEL.
2. THE CEMENT SHALL BE TYPE II. THE WATER/CEMENT RATIO SHALL BE NO HIGHER THAN 0.45 BY WEIGHT. THE CONCRETE MIX SHALL CONTAIN A MAXIMUM OF 280 POUNDS OF WATER PER CUBIC YARD.

7. CONTINUOUSLY MOIST CURE CONCRETE SLABS-ON-GRADE FOR 7 DAYS MINIMUM. WATER FOG SPRAYS, PONDING, SATURATED ABSORPTIVE COVERS, OR MOISTURE RETAINING COVERS MAY BE USED. CURING COMPOUNDS ARE NOT ACCEPTABLE.

8. NON-SHRINK GROUT, 7000 PSI: EUCLID CHEMICAL COMPANY'S "EUCO-NS", L&M CRYSTEX, MASTER BUILDERS' "MASTERFLOW 713", OR FIVE STAR GROUT. WHERE HIGH FLUIDITY OR INCREASED PLACING TIME IS REQUIRED, USE EUCLID CHEMICAL COMPANY'S "EUCO HI-FLOW GROUT" OR MASTER BUILDERS' "MASTERFLOW 928".

V. STEEL DECKING

1. METAL ROOF AND FLOOR DECKING: SHALL HAVE MINIMUM GAGE PER PLAN AND PROPERTIES AND DIMENSIONS AS SHOWN ON TYPICAL DETAILS SHEET 1.8 AND SHALL BE MANUFACTURED BY VERCO, ICC-ES ESR-1735, OR APPROVED EQUAL.

2. MINIMUM DESIGN YIELD STRENGH: Fy = 33,000 PSI.

3. PROVIDE MINIMUM VENTED GALVANIZED G-90 DECK AT ROOF AND GALVANIZED G-60 DECK AT FLOORS NOT EXPOSED TO WEATHER, U.O.N.

4. DECK WELDING: PER TYPICAL DETAIL SHEET 1.8

5. THE STEEL DECK SUPPLIER SHALL PROVIDE THE FOLOWING:

A. SUPPORTS FOR DECK AROUND SUCH DISCONTINUITIES AS BEAM/COLUMN CONNECTIONS.

B. CLOSURE ANGLES AND DECK REINFORCEMENT AT OPENINGS FOR PIPES, DUCTS, OR CONDUITS UNLESS NOTED OTHERWISE.

C. EDGE FORMS OR DECK CLOSURES, AS REQUIRED, TO PREVENT LEAKAGE OF CONCRETE

VI. STRUCTURAL STEEL

1. STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

SECTIONS	TYPE
ROLLED SHAPES WIDE FLANGES CHANNELS, ANGLES, & OTHER	ASTM A992 ASTM A36
PLATES COLUMN BASE PLATES BEAM SHEAR CONNECTION PLATES BEAM STIFFENER PLATES OTHER	ASTM A572, GR 50 ASTM A36 ASTM A36 ASTM A572, GR 50
STEEL PIPE	ASTM A53 GRADE B
COLD FORMED HOLLOW STRUCTURAL SECTION (HSS)	ASTM A500 GRADE B
BOLTS	ASTM A325X
MACHINE BOLTS	ASTM A307
ANCHOR BOLTS	ASTM F1554
ANCHOR RODS	ASTM A36
THREADED AND HANGER ROD	ASTM A572, GR 50
WELDED SHEAR CONNECTORS	ASTM A 108, GRADE 1015 THROUGH 1020
WELDED THREADED STUDS	ASTM A 108, GRADE 1015 THROUGH 1020
NUTS FOR BOLTS AND MACHINE BOLTS	ASTM A563
HARDENED WASHERS	ASTM F436
UNHARDENDED WASHERS	ASTM F844
PLAIN WASHERS	ANSI B18.22.1
BEVELED WASHERS	ANSI B18.23.1

2. HOT DIP GALVANIZE IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STRUCTURAL STEEL AND FASTENERS THAT ARE PERMANENTLY EXPOSED TO THE WEATHER. REPAIR GALVANIZING AFTER WELDING IN ACCORDANCE WITH ASTM A780.

3. ARC-WELDING ELECTRODES/FILLER METALS TO BE LOW HYDROGEN TYPES E7XTX, E7XTXR, OR E70XXX MINIMUM #, APPLICABLE. ELECTRODES WITH CHARPY V-NOTCH (CVN) TESTS VALUES OF A MINIMUM 20 FOOT-POUNDS AT -20 DEGREES FAHRENHEIT ARE TO BE USED AT LOCATIONS INDICATED AS "CVN" ON THE DRAWINGS.

4. WELDERS TO BE CERTIFIED BY AWS AND THE GOVERNING JURISDICTION.

5. WHERE FIELD WELDING IS NOTED, THE DESIGNATION IS GIVEN AS A SUGGESTED CONSTRUCTION PROCEDURE ONLY.

6. PROVIDE NATURAL CAMBER UP, UNLESS NOTED OTHERWISE, EXCEPT AT CANTILEVERS. AT CANTILEVERS PROVIDE CAMBER SUCH THAT TIP OF CANTILEVER IS ABOVE FINAL ELLIVATION.

7. SPLICT MEMBERS ONLY WHERE INDICATED.

8. BASEPLATES SHALL BE BEDDED ON A NON-SHRNK GROUT, MAXIMUM 2 INCHES, UNLESS OTHERWISE NOTED.

VII. ROUGH CARPENTRY

1. FRAMING LUMBER: DOUGLAS FIR (COAST REGION) GRADED AND MARKED IN ACCORDANCE WITH THE STANDARD GRADING RULES NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU (W.C.L.I.B.) OR WESTERN LUMBER GRADING RULES, OF THE WESTERN WOOD PRODUCTS ASSOCIATION (W.W.P.A.). USE LUMBER OF THE FOLLOWING GRADES:

MEMBER	MOISTURE CONTENT	WOOD/GRADE
SILLS	19%	D.F., #1 PRESSURE OR PRESSURATNE TREATED OR FOUNDATION GRADE REDWOOD
STUDS	19%	D.F. #2
JOISTS, PLANKS AND PLATES	15%	D.F. #1
BEAMS, 5" & WIDER	GREEN	D.F., SELECT STRUCTURAL
BEAMS, 4" & NARROWER	GREEN	D.F., #1
POSTS, 6x6 & LARGER	GREEN	D.F., SELECT STRUCTURAL
POSTS, 4x6 & SMALLER	19%	D.F. #1
FRAMING, BLOCKING & BRIDGING	15%	D.F. #2
PLYWOOD BLOCKING	19%	D.F. #1
BACKING, STRIPPING AND FURRING	19%	CONSTRUCTION

2. PANEL SHEATHING: IDENTIFY WOOD STRUCTURAL PANELS WITH THE APPROPRIATE TRADEMARK OF APA–THE ENGINETRED WOOD ASSOCIATION AND MEET THE REQUIRMENTS OF THE VOLUNTARY PRODUCT STANDARD PS-1 OR PS-2 AND APA PRP-108 PERFORMANCE STANDARD.

A. PANEL SHEATHING TO BE EXPOSURE 1.

B. PLYWOOD PANELS TO BE 5-PLY MINIMUM, EXCEPT 3/8" PANELS TO BE 3-PLY MINIMUM.

C. PLYWOOD TO BE CC GRADE AT LOCATIONS EXPOSED TO WEATHER; CD GRADE ELSEWHERE.

D. PROVIDE THE FOLLOWING GRADE AND SPAN RATINGS:

PANEL THICKNESS	MINIMUM GRADE	ROOF/FLOOR RATING
3/8	STRUCTURAL 1	24/0
7/16	STRUCTURAL 1	24/16
15/32	STRUCTURAL 1	32/16
19/32 AND 5/8	CD/CC	40/20
3/4	CD/CC	48/24
7/8 AND 1	CD/CC	54/32
1 1/8	CD/CC	60/48

3. ROUGH HARDWARE:

A. NAILS: COMMON WIRE NAILS, FEDERAL SPECIFICATION FF-N-105B, STANDARD LENGTHS U.O.N. USE HOT-DIPPED ZINC-COATED GALVANIZED NAILS FOR EXTERIOR INSTALLATIONS AND WHEN PENETRATING PRESSURE TREATED OR FIRE-RETARTANT LUMBER.

B. BOLTS AND THREADED RODS: ASTM A307, SQUARE OR HEXAGONAL HEAD MACHINE BOLTS WITH ASTM A563 NUTS. USE MALLEABLE IRON WASHERS UNDER HEAD AND NUT WHEN IN CONTACT WITH WOOD. AT SILL PLATES USE 3"x3"x1/4" MINIMUM PLATE WASHERS.

C. LAG SCREWS: ASTM A307, ANSI/ASME STANDARD B18.2.1. USE ANSI B18.22.1 WASHERS UNDER HEAD WHEN IN CONTACT WITH WOUD.

D. SCREWS: ASTM A307, ANSI/ASME STANDARD B18.6.1. USE CADMIUM-PLATED PAN OR ROUND HEADED SCREWS AT STEEL TO WOOD AND WOOD TO WOOD CONNECTIONS.

E. MISCELLANEOUS STEEL: ASTM A36.

F. BOLTS, NUTS, WASHERS, STRAPS AND UTHER HARDWARE EXPOSED TO THE WEATHER TO BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.

G. FRAMING CLIPS, SHEET METAL STRAPS, ETC.: SIMPSON, UNIVERSAL, OR SILVER, WITH ICBO REPORTS. DESIGNATIONS ON DRAWINGS ARE BASED ON SIMPSON CATALOGUE NUMBERS.

4. NAILING:

A. DRIVE NAILS PERPENDICULAR TO THE GRAIN, U.O.N.

B. PREDRILL HOLES TO 3/4 OF NAIL DIAMETER WHERE SPECIFIED AND WHEN WOOD TENDS TO SPLIT.

C. AIR-DRIVEN NAILS TO BE FULL-HEADED NAILS. DO NOT OVERDRIVE NAILS.

D. PANEL SHEATHING:
1. AT FLOOR AND ROOF SHEATHING, USE RING SHANK NAILS. USE SMOOTH SHANK NAILS AT WALLS.

2. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND APPROVAL BY THE OWNER'S REPRESENTATIVE. NAILHEADS THAT PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF THE MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE INSTALLATION IS UNSATISFACTORY. MACHINE NAILING IS NOT APPROVED IN 5/16" OR LESS SHEATHING.

3. GLUE FLOOR SHEATHING AT ALL POINTS OF CONTACT.

E. PROVIDE MINIMUM NAILING PER TABLE 2304.9.1 OF THE CBC, U.O.N.

2x JOISTS OR RAFTERS TO SIDES OF STUDS: 8 INCH OR LESS FOR EACH ADDITIONAL 4 INCH IN DEPTH OF JOIST	3-16d 1-16d
JOISTS OR RAFTERS AT ALL BEARINGS–TOENAILS EACH SIDE	2-8d
STUDS TO BEARING – TOENAILS EACH SIDE END NAIL @ 2x END NAIL @ 3x	2-8d 2-16d 2-20d
BLKG BTWN JOISTS OR RAFTERS TO JOIST OR RAFTERS– TOENAILS EACH SIDE, EACH END TO JOIST OR RAFTER BEARING– TOENAILS EACH SIDE	3-8d 2-10d
CROSS-BRIDGING BETWEEN JOISTS OR RAFTERS– TOENAILS EACH END HERRINGBONE BLOCKING	2-8d 2-10d
DOUBLE TOP PLATES– LOWER PLATE TO TOP OF STUD UPPER PLATE TO LOWER PLATE–STAGGERED	2-16d 16d @ 16" O.C.
DOUBLE JOISTS: STAGGERED 2 ROWS CONTINUOUS CONTACTS ALL OTHER WOOD CONTACTS	16d @ 12" O.C. 16d MIN @ 12" O.C. 2-8d @ 1" MATERIAL 2-16d @ 2" MATERIAL 2-40d @ 3" MATERIAL
WHERE BLOCKED APART–AT EACH BLOCK	2-16d

5. BOLT AND SCREW INSTALLATION:
A. DRILL BOLT HOLES A MAXIMUM OF 1/16 INCH LARGER IN DIAMETER THAN THE BOLT NOMINAL DIAMETER.

B. DRILL PRE-BORED LEAD HOLES FOR WOOD SCREWS AS FOLLOWS.

1. DRILL LEAD HOLE FOR THE SHANK TO A DEPTH EQUAL TO THE LENGTH OF THE UNTHREADED PORTION IN THE MAIN MEMBER. USE A DRILL BIT 7/8 THE DIAMETER OF THE WOOD SCREW.

2. EXTEND THE LEAD HOLE FOR THE THREADED PORTION OF THE SCREW WITH A DRILL BIT WHOSE DIAMETER IS 7/8 THE DIAMETER OF THE SCREW WITH A DRILL BIT WHOSE DIAMETER IS 7/8 THE DIAMETER OF THE SCREW OF THE THREAD.

3. INSERT THE SCREW INTO LEAD HOLE BY TURNING. DO NOT DRIVE WITH A HAMMER.

4. LUBRICATE WITH SOAP OR BEESWAX TO FACILITATE INSTALLATION.

C. DRILL PRE-BORED LEAD HOLES FOR LAG SCREWS AS FOLLOWS.

1. DRILL LEAD HOLE FOR THE SHANK TO A DEPTH EQUAL TO THE LENGTH OF THE UNTHREADED PORTION IN THE MAIN MEMBER. USE A DRILL BIT OF THE SAME DIAMETER AS THE LAG SCREW.

2. EXTEND THE LEAD HOLE FOR THE THREADED PORTION OF THE LAG SCREW WITH A DRILL BIT WHOSE DIAMETER IS 60 PERCENT OF THE NOMINAL LAG SCREW DIAMETER.

3. INSERT LAG SCREW INTO LEAD HOLE BY TURNING. DO NOT DRIVE WITH A HAMMER.

4. LUBRICATE WITH SOAP OR BEESWAX TO FACILITATE INSTALLATION.

Special Inspection Quality Control Notes

1. FABRICATOR SHALL SUBMIT A "CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION" TO THE INSPECTION SERVICES DIVISION PRIOR TO ERECTION OF FABRICATED ENGINEERED WOOD PRODUCTS AND ASSEMBLIES.

2. "NOTICE TO THE APPLICANT/OWNER/OWNER'S AGENT/ARCHITECT OR ENGINEER OF RECORD: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES."

3. "NOTICE TO THE CONTRACTOR/BUILDER/INSTALLER/SUB-CONTRACTOR/OWNER-BUILDER: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF, THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES."

4. REFER SECTION X FOR SPECIAL INSPECTION REQUIREMENTS.

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S2.5A COTTAGE 9- BASEMENT/FOUNDATION PLAN & GROUND FLOOR FRAMING PLAN
S2.5B COTTAGE 9- GROUND FLOOR PLAN & ROOF FRAMING PLAN

S3.0 SECTIONS AND DETAILS
S3.1 SECTIONS AND DETAILS

Deferred Submittals

1. PREFABRICATED WOOD TRUSSES DESCRIBED ON ROOF PLANS AND 6/S1.5

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HERITAGE ARCHITECTURE & PLANNING

DECEMBER 1, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: GENERAL STRUCTURAL NOTES AND DRAWING INDEX

SHEET NUMBER: S0.1

LAMBERT COORDINATES 204-1721

THOMAS BROTHERS PAGE 60, D-6

(PSD #)

General Structural Notes (con't)

6. INSTALL SOLID BLOCKING BETWEEN JOISTS AT ENDS AND OVER SUPPORTS. PROVIDE 2 INCH BY 3 INCH CROSS BRIDGING, METAL BRIDGING, OR SOLID BLOCKING BETWEEN JOISTS IN SPANS EQUALLY SPACED 8 FEET ON CENTER MAXIMUM AND WHERE INDICATED.

7. DO NOT USE WOOD SHINGLE SHIMS UNDER STUDS, JOISTS, BEAMS, OR POSTS.

8. PRESERVATIVE TREATMENT:

A. LUMBER INDICATED IN THESE NOTES OR DRAWINGS TO BE PRESSURE TREATED (PT) SHALL BE TREATED WITH SODIUM BORATE (SBX). (ALSO CALLED DISODIUM OCTABORATE TETRAHYDRATE (DOT) IN ACCORDANCE WITH CBC SECTION 2303-STANDARDS OF QUALITY AND STAMPED WITH A CERTIFICATION FOR THE INTENDED USE.
NOTE: USE OF LUMBER PRESSURE TREATED BY ANOTHER PROCESS MAY REQUIRE USE OF STAINLESS STEEL HARDWARE, CONNECTORS, AND FASTENERS PER SIMPSON STRONG-TIE TECHNICAL BULLETIN "PRESSURE TREATED WOOD" DATED JANUARY 1, 2006

B. ALL SILL PLATES OR OTHER LUMBER IN DIRECT CONTACT WITH CONCRETE OR MASONRY AND WITHIN 6" OF GRADE, OR EXPOSED TO WEATHER IN THE FINAL STRUCTURE SHALL BE PRESSURE TREATED DOUGLAS FIR (PTDF), UNLESS OTHERWISE PROTECTED.

C. FRAMING CONNECTORS: SIMPSON STRONG-TIE OR EQUAL. ALL FRAMING CONNECTORS SHALL BE ICC/ICBO APPROVED AND INSTALLED ACCORDINGLY. ALL FRAMING HARDWARE AT PRESSURE TREATED MEMBERS SHALL BE G90 GALVANIZED AS A MINIMUM. NAILS AS SCREWS SHALL BE HDG GALVANIZED CONNECTORS AS A MINIMUM. BOLTS AND ANCHORS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C AS A MINIMUM.

VIII. ENGINEERED WOOD PRODUCTS

1. PARALLAM PSL AND MICROLLAM LVL TO COMPLY WITH ICC-ES REPORT ESR-1387

2. PARALLAM PSL TO BE MANUFACTURED BY TRUS JOIST WITH THE FOLLOWING PROPERTIES:
FB = 2900 PSI
FV = 290 PSI
E = 2.0 E6 PSI

3. MICROLLAM LVL TO BE MANUFACTURED BY TRUS JOIST WITH THE FOLLOWING PROPERTIES:

FB = 2600 PSI
FV = 285 PSI
E = 1.9 E6 PSI

4. GLUED LAMINATED TIMBER MEMBERS SHALL CONFORM WITH THE FOLLOWING:

A. PROVIDE STRUCTURAL GLUED LAMINATED TIMBER OF SOFTWOOD SPECIES IN CONFORMANCE WITH ANSI STANDARD A190.1. MARK MEMBERS WITH THE ENGINEERED WOOD SYSTEM APA-EWS TRADEMARK OR ATC QUALITY INSPECTED MARK INDICATING CONFORMANCE WITH PROVISIONS OF ANSI STANDARD A190.1.

B. FABRICATE MEMBERS OF DOUGLAS FIR (COAST REGION) LUMBER CONFORMING TO PARAGRAPH 154 OF THE STANDARD GRADING RULES NO. 17 FOR WEST COAST LUMBER OF THE WEST COAST LUMBER INSPECTION BUREAU.

C. BEAMS TO BE 24F-V8 UNLESS OTHERWISE NOTED.

D. ADHESIVES TO BE EXTERIOR TYPE.

E. APPEARANCE TO BE INDUSTRIAL GRADE UNLESS OTHERWISE NOTED.

F. NOTCH OR BORE GLUED LAMINATED MEMBERS ONLY WHERE APPROVED BY THE MANUFACTURER OR WHERE SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

5. NOTCH OR BORE MEMBERS ONLY WHERE APPROVED BY THE MANUFACTURER OR WHERE SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

IX. SUBMITTALS

1. SHOP DRAWINGS FOR ALL STRUCTURAL STEEL AND FOR ALL REINFORCING STEEL FOR REVIEW PRIOR TO FABRICATION INDICATING THE ASTM MATERIAL DESIGNATIONS, BAR SIZES, DIMENSIONS, AND BEND ARRANGEMENTS.

2. MILL CERTIFICATES FOR ALL REINFORCING STEEL AND FASTENERS CERTIFYING THAT THEY MEET OR EXCEED SPECIFIED REQUIREMENTS. MILL CERTIFICATES FOR STRUCTURAL STEEL INDICATING STRUCTURAL STRENGTH AND CHEMICAL COMPOSITION FOR EACH HEAT OF STRUCTURAL STEEL SHAPE.

3. CONCRETE MIX DESIGNS AND TEST DATA TO DETERMINE THE 28-DAY CONCRETE STRENGTH FOR ALL CONCRETE MIXES SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONCRETE PLACEMENT.

4. PRODUCT DATA FOR WELDING ELECTRODES AND CONCRETE ADMIXTURES.

5. ANY SUBSTITUTIONS TO THE PRODUCTS SPECIFIED SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE.

6. DESIGN CALCULATIONS AND SHOP DRAWINGS OF THE PRE-FABRICATED WOOD TRUSSES.

7. DESIGN CALCULATIONS AND SHOP DRAWINGS OF THE STEEL STAIR FRAMING.

X. STRUCTURAL TESTS, INSPECTIONS, AND OBSERVATIONS

1. AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS WILL BE RETAINED BY THE OWNER TO PERFORM THE FOLLOWING TESTS AND INSPECTION. PROVIDE ACCESS AND FURNISH SAMPLES TO THE AGENCY AS REQUIRED BY THE CONTRACT DOCUMENTS.

2. IF INITIAL TESTS OR INSPECTIONS MADE BY THE OWNER'S TESTING AGENCY REVEAL THAT ANY PORTION OF THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, ADDITIONAL TESTS, INSPECTIONS, AND NECESSARY REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.

3. THE FOLLOWING ITEMS REQUIRE TESTS AND INSPECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CHAPTER "STRUCTURAL TESTS AND INSPECTIONS" OF THE CODE OF THE GOVERNING JURISDICTION AS NOTED IN THE GENERAL SECTION OF THESE GENERAL NOTES.

STRUCTURAL STEEL						
✓	Review Mill Certificates & Test Reports					
✓	Review Welds			qualification & Welder Certifications		
	Sample & Test Sections		As Specified		As Required	
✓	Sample & Test High-Strength Bolts & Washers					
	Shop Material Identification					
✓	Paint Erection Inspection					
✓	Fabrication Inspection		✓	Shop		Field
✓	Welding Inspection		✓	Shop		Field
✓	Non-Destructive Weld Test			Shop		Field
✓	Bolting Inspection			Shop		Field
	Composite Stud Inspection & Testing					
	Steel Joist Load Test					
METAL DECK						
✓	Review Mill Certificates & Test Reports					
✓	Placement Inspection					
✓	Welding & Fastening Inspection					
REINFORCING STEEL						
✓	Review Mill Certificates & Test Reports					
	Sample & Test		Reinforcing Bars		Welded Wire Fabric	
✓	Placement Inspection					
	Welding Inspection					
	Test Existing Reinforcing for Weldability					
TENSIONING STEEL						
	Review Mill Certificates & Test Reports					
	Sample & Test					
	Placement Inspection					
	Stressing Inspection					
STRUCTURAL LUMBER						
	Review Certificates & Test Reports					
	Sample & Test Timber Connectors					
✓	Fabrication Inspection		Glu-Lam	✓	Trusses	Open Web Joist
✓	Field Erection Inspection					
	Nailing of Plywood at Shear Walls					
MASONRY						
	Review Certificates & Test Reports					
	Sample & Test					
	Placement Inspection of Units					
	Core Test					
EARTHWORK/FOUNDATIONS						
	Review of Import Material Test Reports					
	Acceptance Tests of Materials					
✓	Placement Excavation Inspection		Continuous	✓	As Ordered	
✓	Compaction Test					
	Bearing Capacity Test					
	Pile Driving Inspection					
	Pier & Caisson Drilling Inspection					
FIREPROOFING						
	Review of Certificates & Test Reports					
	Batching & Placement Inspection					
	Density Tests					
	Thickness Tests					
	Bond Test					
INSULATING CONCRETE						
	Sample and Test					
	Placement and Grouting Inspection					
	Core Drill Samples					
PAVING/ASPHALTIC CONCRETE						
	Core/Test					
	Field Inspection					
	Final Report for Parking Lot					
	AB Compaction		Rock Depth & Asphalt Thickness			
MISCELLANEOUS						
	Cast-in Concrete Anchors					
	Epoxy or Grouted Dowels					
✓	Bolts Cast in Concrete					
	Ceiling Hanger & Bracing Wires					
	Cold Form Metal Framing Welding					

CONCRETE, SHOTCRETE, GROUT & MORTAR				
Concrete	Shotcrete	Grout	Mortar	
				Aggregate Tests
				Cement Test
✓		✓		Mix Design Review
				Continuous Batch Plant Inspection
✓				Batch Plant Inspections
✓		✓		Cast, Pickup, And Compression Test Samples
✓				Slump, Entrained Air, & Temperature Test
				Unit Weight Test | Wet | Dry
				Shrinkage Test
✓				Placement Inspection
				Core & Test

NOTES:
A. "NOTICE TO THE APPLICANT/OWNER/OWNER'S AGENT/ARCHITECT OR ENGINEER OF RECORD: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES."

B. "NOTICE TO THE CONTRACTOR/BUILDER/INSTALLER/SUB-CONTRACTOR/OWNER-BUILDER: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF, THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES."

C. THE SPECIAL INSPECTIONS IDENTIFIED ON THE PLANS ARE, IN ADDITION TO, AND NOT SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A CITY'S BUILDING INSPECTOR. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO SEE THAT THESE TESTS AND INSPECTIONS ARE PERFORMED.

D. "THE SPECIAL INSPECTIONS IDENTIFIED ON PLANS ARE, IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A CITY'S BUILDING INSPECTOR." THE CONSTRUCTION INSPECTIONS LISTED HEREIN ARE IN ADDITION TO THE CALLED INSPECTIONS REQUIRED BY SECTION 108 OF THE 2013 CALIFORNIA BUILDING CODE (SAN DIEGO). SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTIONS BY A CITY INSPECTOR. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.

E. CONTINUOUS INSPECTION IS ALWAYS REQUIRED DURING PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED.

THE SPECIAL INSPECTOR MUST BE CERTIFIED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES IN THE CATEGORY OF WORK REQUIRED TO HAVE SPECIAL INSPECTION.

G. "THE CONTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND, EQUIPMENTS."

H. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.

I. FABRICATOR MUST BE APPROVED BY THE CITY OF SAN DIEGO, DEVELOPMENT SERVICES FOR THE FABRICATION OF MEMBERS AND ASSEMBLIES ON THE PREMISES OF THE THE FABRICATOR'S SHOP.

J. FABRICATOR SHALL SUBMIT AN APPLICATION TO PERFORM OFF-SITE FABRICATION MUST BE SUBMITTED TO THE INSPECTION SERVICES DIVISION FOR APPROVAL PRIOR TO FABRICATION.

K. FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION TO THE INSPECTION SERVICES DIVISION PRIOR TO ERECTION OF FABRICATED ITEMS AND ASSEMBLIES.

L. A CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUST BE COMPLETED AND SUBMITTED TO THE INSPECTION SERVICES DIVISION.

M. A PROPERTY OWNER'S FINAL REPORT FORM FOR WORK REQUIRED TO HAVE SPECIAL INSPECTIONS, TESTING AND STRUCTURAL OBSERVATIONS MUST BE COMPLETED BY THE PROPERTY OWNER, PROPERTY OWNER'S AGENT OF RECORD, ARCHITECT OF RECORD OR, ENGINEER OF RECORD AND MUST BE SUBMITTED TO THE INSPECTION SERVICES DIVISION.

N. WHERE MATERIALS OR ASSEMBLIES ARE REQUIRED BY THE BUILDING CODE TO BE LABELED, SUCH MATERIALS AND ASSEMBLIES SHALL BE LABELED BY AN AGENCY APPROVED BY THE CITY OF SAN DIEGO IN ACCORDANCE WITH SECTION 1703. PRODUCTS AND MATERIALS TO BE LABELED IN ACCORDANCE WITH THE PROCEDURES SET FORTH IN SECTIONS 1703.5.1 THROUGH 1703.5.3. IDENTIFY ON PLANS, NAME AND ADDRESS OF THE TESTING/INSPECTION AGENCY. [SECTION 1703.5]

4. NOTIFY THE ENGINEER AT SIGNIFICANT CONSTRUCTION STAGES 72 HOURS IN ADVANCE AND PROVIDE ACCESS FOR THE FOLLOWING STRUCTURAL OBSERVATIONS:

A. FOUNDATIONS
1. REINFORCEMENT

B. STRUCTURAL STEEL
1. GENERAL

C. WOOD FRAMING
1. GENERAL
2. DIAPHRAGM SHEATHING

D. CONCRETE
1. SLABS AND SLABS-ON-GRADE
2. RETAINING WALLS

XI. DESIGN CRITERIA

1. APPLICABLE CODE: 2013 CALIFORNIA BUILDING CODE

2. FOUNDATIONS HAVE BEEN DESIGNED WITH THE FOLLOWING CRITERIA AS OUTLINED IN THE REPORT TITLED: PRELIMINARY GEOTECHNICAL INVESTIGATION PROPOSED NEW INTERNATIONAL COTTAGES NORTHWEST OF PRESIDENTS WAY AND PANAMERICA PLAZA SAN DIEGO, CA. PREPARED BY CONSTRUCTION TESTING & ENGINEERING, INC. DATED MAY 31, 2013.

INDIVIDUAL SPREAD FOOTINGS:
ALLOWABLE NET SOIL PRESSURE FOR DL + LL = 3500 PSF
ALLOWABLE NET SOIL PRESSURE FOR DL + LL + EQ = 4655 PSF
CONCRETE RETAINING WALLS: RESTRAINED WALLS = 55 PCF/FT

3. GRAVITY LOADS:
A. DEAD LOADS:
FLOOR = 51 PSF
ROOF = 22 PSF

B. LIVE LOADS:
FLOOR = 100 PSF
ROOF = 20 PSF
CEILING 10 PSF (NON-REDUCIBLE)

4. SEISMIC DESIGN:

BASE SHEAR V = (SDS X I)/R X W (ULTIMATE)

WHERE: R = 6.5 FOR PLYWOOD SHEATHED SHEAR WALLS
SDS = 0.801 FOR SITE CLASS C AND SEISMIC DESIGN CATEGORY D
I = 1.0 FOR OCCUPANCY CATEGORY II
S_S= 1.202
S_1 = 0.463
V = 0.123 W (PLYWD SHEAR WALLS ULTIMATE)

5. WIND DESIGN:

BASIC WIND SPEED: 110 MPH
EXPOSURE B (SURFACE ROUGHNESS B)
I = 1.0 FOR OCCUPANCY CATEGORY II

DECEMBER 1, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

GENERAL STRUCTURAL NOTES CONTINUED

SHEET TITLE

S0.2

SHEET NUMBER

LAMBERT COORDINATES 204-1721 THOMAS BROTHERS PAGE 60, D-6 (PSD #)

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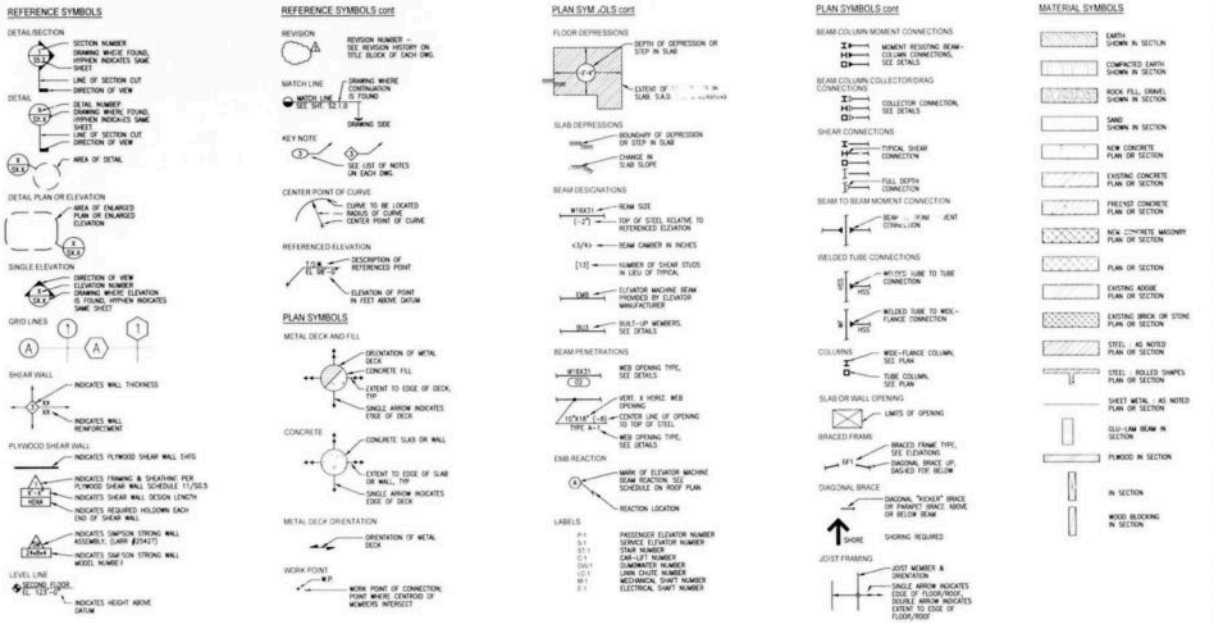
Symbols



Abbreviations

(E)	EXISTING	DIAG	DIAGONAL	HDR	HEADER	O.D.	OUTSIDE DIAMETER (DIM)	"-AG	STAGGER or STAGGERED
(N)	NEW	DIA or ø	DIAMETER	HK or HKS	HOOK or HOOKS	O.H.	OPPOSITE HAND	STD	STANDARD
#	NUMBER	DIM or DIMS	DIMENSION or DIMENSIONS	HORIZ or (H)	HORIZONTAL	OPNG	OPENING	STIFF	STIFFENER
&	AND	DIST	DISTANCE	H.P.	HIGH POINT	OPP	OPPOSITE	STIR	STIRRUP or STIRRUPS
@	AT	DK or DKG	DECK or DECKING	H.S.B.	HIGH STRENGTH BOLTS	OWJ	OPEN WEB JOIST	S.N.	STITCH NAILING
A.B.	ADHESIVE ANCHOR	DN	DOWN	HSS	HOLLOW STRUCTURAL SECTION	OWSG	OPEN WEB STEEL GIRDER	STL	STEEL
A.B.	ANCHOR BOLT	DO	DITTO	HT	HEIGHT	OWSJ	OPEN WEB STEEL JOIST	STRUC	STRUCTURAL
ABV	ABOVE			I.D.	INSIDE DIAMETER	P.A.T.	POWDER ACTUATED FASTENER	SUBST	SUBSTITUTE
ADD'L	ADDITIONAL	DWG or DWGS	DRAWING or DRAWINGS	INFO'D	INFORMATION	PARL	PARALLEL	SUSP	SUSPENDED
ADH	ADHESIVE	DWL or DWLS	DOWEL or DOWELS	JST or JSTS	JOIST or JOISTS	PB	POST BELOW	SYM	SYMMETRICAL
ADJ	ADJACENT	EA	EACH	JT	JOINT	PC or PCS	PIECE or PIECES	TMPD	TEMPERED
AGGR	AGGREGATE	E.D.	EDGE DISTANCE	K.O.	KNOCK-OUT	PERP	PERPENDICULAR	T&B	TOP AND BOTTOM
AL	ALUMINUM	E.F.	EACH FACE	L	ANGLE	PL	PLATE	T&G	TONGUE AND GROOVE
ALT	ALTERNATE	E.J.	EXPANSION JOINT	LARR	LOS ANGELES RESEARCH REPORT	PLYWD	PLYWOOD	THK	THICK
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	EL	ELEVATION	Ld	DEVELOPMENT LENGTH	P.P.	PARTIAL PENETRATION	THRD	THREADED
		ELEC	ELECTRICAL	Ldh	HOOK DEVELOPMENT LENGTH	PR	PAIR	THRU	THROUGH
APPROX	APPROXIMATE	ELEV	ELEVATOR	LEV	LEVEL	PRCST	PRECAST	T.N.	TOE NAIL
ARCH	ARCHITECTURAL	EMBED	EMBEDMENT	LGTHB	LONG LEG BACK TO BACK	PSF	POUNDS PER SQUARE FOOT	T.O.	TOP OF
ASTM	AMERICAN SOCIETY for TESTING and MATERIALS	E.N.	EDGE NAILING	LLH	LONG LEG HORIZONTAL	PSL	PARALLAM	T.O. B.P.	TOP OF BASE PLATE
		E.O. SLAB	EDGE OF SLAB	LLV	LONG LEG VERTICAL		STRAND LUMBER	T.O. CONC	TOP OF CONCRETE
A.C.	ASPHALT CONCRETE	EQ	EQUAL	LOC	LOCATION	PT	POINT	T.O. STL	TOP OF STEEL
BTWN	BETWEEN	EQUIP	EQUIPMENT	LONGIT	LONGITUDINAL	P-T	POST TENSIONED	T.O. SLAB	TOP OF STRUCTURAL SLAB
BLDG	BUILDING	E.S.	EACH SIDE	LP	LOW POINT	P.T.	PRESSURE TREATED	TRANS	TRANSVERSE
BLKG	BLOCKING	E.W.	EACH WAY	lpf	kip per ice length	PTN	PARTITION	TR	TREAD
BM or BMT	BEAM or BEARING	EXCAV	EXCAVATE or EXCAVATION	LSL	TIMBERSTRAND LAMINATED STRAND LUMBER	R or RAD	RADIUS	TS	TUBE STEEL
B.N.	BOUNDARY NAILING	EXP	EXPANSION	LT	LIGHT	REBAR	REINFORCING BAR	TSG	TAPERED STEEL GIRDER
B.O. FTG	BOTTOM OF FOOTING	EXT	EXTERIOR	LVL	MICROLLAM LAMINATED VENEER LUMBER	REF	REFERENCE	TYP	TYPICAL
BOT	BOTTOM	FDN	FOUNDATION		LIGHT WEIGHT CONCRETE	REINF	REINFORCED or REINFORCING	U.O.N.	UNLESS OTHERWISE NOTED
B.P.	BASE PLATE	F.F.	FAIR FACE	LW.C.	MAXIMUM	REQ'D	REQUIRED	URM	UNREINFORCED MASONRY
BRG	BEARING	FIN	FINISH	MAX	MACHINE BOLT	REV	REVISE OR REVISION	VENT.	VENTILATE
B.S.	BOTH SIDES	FLR or FLRS	FLOOR or FLOORS	M.B.	MECHANICAL	RFG	ROOFING	VERT or (V)	VERTICAL
BSMT	BASEMENT	F.N.	FIELD NAILING	MECH	MECHANICAL, ELECTRICAL, PLUMBING	R.O.	ROUGH OPENING	V.I.F.	VERIFY IN FIELD
CHNL	CHANNEL	F.O.	FACE OF	M.E.P.	MEZZANINE	RSJ	ROLLED STEEL JOIST	w/	WITH
CANT	CANTILEVER	F.O. CONC	FACE OF CONCRETE	MEZZ	MOMENT FRAME	S.A.D.	SEE ARCHITECTURAL DOCUMENTS	w/o	WITHOUT
C.I.P.	CAST IN PLACE	F.O. STUD(S)	FACE OF STUD(S)	M.F.	MANUFACTURER	SCHED	SCHEDULE	W or WF	WIDE FLANGE
C.J.	CONTROL JOINT	FPRF	FIREPROOFING	MFR	MINIMUM	SECT	SECTION	WD	WOOD
CL	CENTERLINE	FRP	FIBERGLASS REINFORCED PLASTIC	MIN	MISCELLANEOUS	S.E.D.	SEE ELECTRICAL DOCUMENTS	W.P.	WORK POINT
CLG	CEILING	F.S.	FAIR SIDE	MISC	MOUNTED	SHT	SHEET	WT	WEIGHT
CLR	CLEAR	FT	FOOT AND FEET	MTD	METAL	SHTG	SHEATHING	WWF	WELDED WIRE FABRIC
CMU	CONCRETE MASONRY UNIT	FTG or FTGS	FOOTING or FOOTINGS	MTL	NORTH	SIM	SIMILAR	X HVY	EXTRA HEAVY
COL	COLUMN	GA	GAUGE	N	NEAR FACE	SL	SLOPE	XX HVY	DOUBLE EXTRA HVY
CONC	CONCRETE	GALV	GALVANIZED	N.F.	NOT IN CONTRACT	S.M.D.	SEE MECHANICAL DOCUMENTS	X STR	EXTRA STRONG
CONN	CONNECTION	GL	GLASS or GLAZING	N.I.C.	NUMBER	S.M.S.	SHEET METAL SCREW	XX STR	DOUBLE EXTRA STRONG
CONST	CONSTRUCTION	GLB	GLU-LAM BEAM	NO. or #	NOMINAL DIAMETER	S.O.G.	SLAB ON GRADE		
CONT	CONTINUOUS	GRND	GROUND	NOM DIA	NEAR SIDE	SPEC	SPECIFICATION or SPECIFICATIONS		
CP	COMPLETE PENETRATION	GR	GRADE	N.S.	NOT TO SCALE				
CSK	COUNTERSINK	GYP BD	GYPSUM BOARD	N.T.S.	NORMAL WEIGHT CONCRETE				
CTR	CENTER	HD	HOLDOWN	N.W.C.					
d	PENNY (NAIL SIZE)								
DBL	DOUBLE								

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DECEMBER 1, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

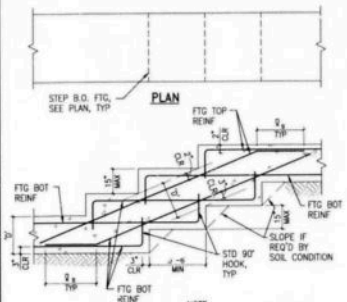
(A PORTION OF BALBOA PARK)

SHEET TITLE: SYMBOLS AND ABBREVIATIONS

S0.3
SHEET NUMBER

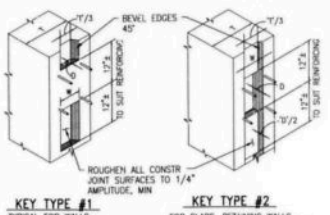
LAMBERT COORDINATES 204-1721 THOMAS BROTHERS PAGE 60, D-6 (PSD #)

DWG: COLUMBIA RIVER CASC_15-057-15047.dwg, 8½ x 11, 1:1, 8/8/2017 10:57:37 AM, Nick Di Pinto



NOTE:
STEPS MAY BE ELIMINATED IF B.O. FOOTING SLOPES LESS THAN 10%

10 TYPICAL STEPPED FOOTING DETAIL
N.T.S.



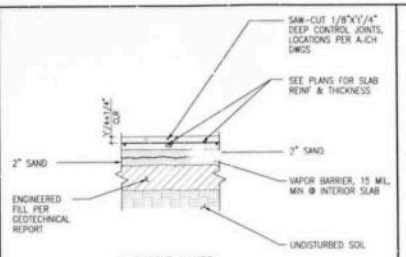
KEY TYPE #1
TYPICAL FOR WALLS

KEY SCHEDULE	
T	D
≤ 8"	3/4"
8"–16"	1 1/2"
> 16"	2 1/2"

KEY TYPE #2
FOR SLABS, RETAINING WALLS, & EXTERIOR WALLS BELOW GRADE

NOTE:
DETAILS APPPLY TO BOTH (H) AND (V) CONSTR JOINTS

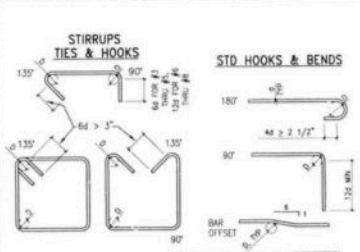
7 CONSTRUCTION JOINTS IN CONCRETE WALLS & SLABS
N.T.S.



A–SINGLE LAYER

NOTE:
SEE GEOTECHNICAL REPORT(S) FOR ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS

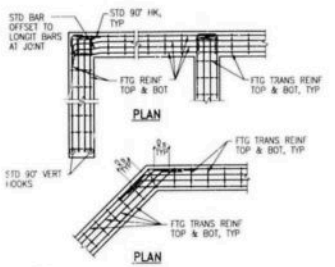
4 SLAB ON GRADE, CONTROL JOINT & SUBGRADE PREPARATION
N.T.S.



TC:
DO NOT FIELD BEND REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE

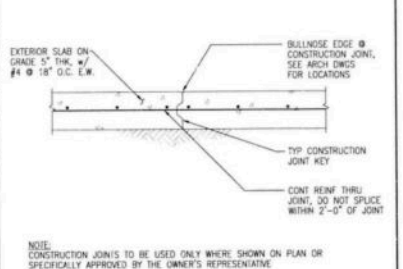
BEND DIAMETER, D		
BAR SIZE	STD HOOKS & BENDS	STIRRUPS TIES & HOOPS
#3 THRU #5	6d	4d
#6 THRU #8	6d	6d
#9 THRU #11	8d	NA
#14 THRU #18	10d	NA

1 HOOKS AND BENDS
N.T.S.



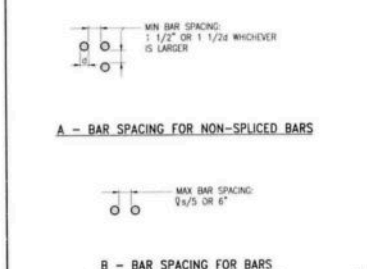
NOTE:
SEE TYPICAL WALL DETAIL FOR REINFORCING IN STEM WALL

8 FOOTING REINFORCEMENT AT CORNERS AND INTERSECTIONS
N.T.S.

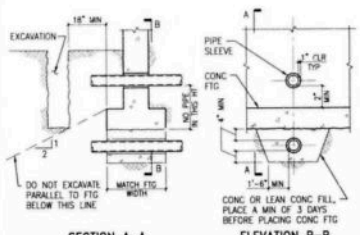


NOTE:
CONSTRUCTION JOINTS TO BE USED ONLY WHERE SHOWN ON PLAN OR SPECIFICALLY APPROVED BY THE OWNER'S REPRESENTATIVE

5 EXTERIOR SLAB ON GRADE
N.T.S.



2 BAR SPACING
N.T.S.



SECTION A–A ELEVATION B–B

NOTES:
1. REINFORCE OPENINGS FOR SLEEVES OR GROUPS OF SLEEVES LARGER THAN 10" PER THE TYPICAL WALL OPENING DETAIL. "GROUPS" OF SLEEVES INCLUDES ALL SLEEVES SPACED CLOSER THAN ONE DIAMETER CLR
2. SEE MECHANICAL AND CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS AT SLEEVES

9 PIPE SLEEVES THROUGH STRIP FOOTINGS
N.T.S.

CONCRETE REINFORCING DEVELOPMENT & SPLICE LENGTHS

BAR LOCATION	CONCRETE TYPE	CONCRETE STRENGTH	BAR SIZE #3 ld	ls	ldh	#4 ld	ls	ldh	#5 ld	ls	ldh	#6 ld	ls	ldh	#7 ld	ls	ldh	#8 ld	ls	ldh	#9 ld	ls	ldh	#10 ld	ls	ldh	#11 ld	ls	ldh	#14 ld	ls	ldh	#18 ld	ls	ldh
CONC WALL VERT REINF, COLUMNS, BEAM BOT REINF SLAB-ON-GRADE FOOTING BOT REINF	N.W.C.	f'c ≥ 3ksi	17	22	9	22	29	11	28	36	14	33	43	17	48	63	20	55	72	22	63	81	25	70	91	28	78	101	31	93	30	124	50	
CONC WALL HORIZ REINF, FTG TOP & SIDE REINF, BEAM TOP & SIDE REINF	N.W.C.	f'c ≥ 3ksi	23	29	9	30	39	11	37	48	14	45	58	17	63	81	20	72	93	22	81	105	25	91	118	28	101	131	31	121	38	161	50	
FILL ON METAL DECK	N.W.C.	f'c ≥ 3ksi	22	28	11	29	38	15	36	47	18	43	56	22	63	81	25	72	93	29	81	105	33	91	118	37	101	131	41	121	49	161	65	

NOTES:
1. ls = DEVELOPMENT LENGTH
ls = LAP SPLICE LENGTH
ldh = HOOK DEVELOPMENT LENGTH
2. WHEN SPLICING BARS OF DIFFERENT SIZE, USE LAP SPLICE LENGTH OF LARGER BAR, U.O.N.
3. STAGGER EA SPACE AS FOLLOWS: 2'-0" CLR, ls, COUPLER OR WELDED SPLICE, 2'-0"CLR

MULTIPLY THE TABLE LENGTHS ABOVE BY 1.5 FOR EPOXY COATED REINF.

6 REINFORCING DEVELOPMENT & SPLICE LENGTHS
N.T.S.

DECEMBER 1, 2017

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CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

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INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

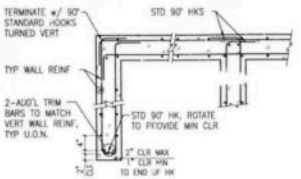
SHEET TITLE: TYPICAL CONCRETE DETAILS

SHEET NUMBER: S1.1

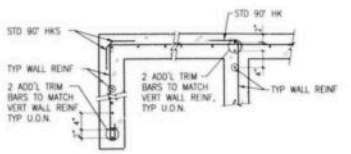
LAMBERT COORDINATES 204-1721 THOMAS BROTHERS PAGE 60, D-6

(PSD #)

DWG #P: COLUMBIA RIVER CADD 15-067-15047 S1.1 S1.1 #P NUMBER / TAILS OF SHEET



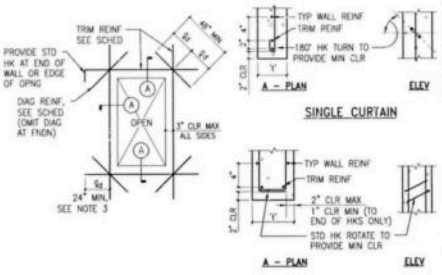
DOUBLE CURTAIN REINF AT WALL



SINGLE CURTAIN REINF AT WALL

4 PLAN AT CURB AND WALL REINF AT CORNERS AND INTERSECTIONS

N.T.S.



TRIM RINFORCING SCHEDULE		
WALL THICKNESS 't'	MIN TRIM REINF	DIAGONAL REINF
6" ≤ t ≤ 9"	2-#5	#5
9" < t ≤ 12"	2-#6	#5
12" < t ≤ 16"	2-#7	#5
t > 16"	2-#8	#7

NOTES:
1. SCHEDULE REINF APPLIES TO ALL OPNGS, UNLESS OTHERWISE SHOWN.
2. MIN TRIM REINF TO BE LARGER OF TYP WALL REINF OR SIZE SHOWN IN SCHEDULE.
3. AT SERIES OF OPENINGS WHERE PIER OR SPANDREL IS NARROWER THAN THREE TIMES 'Ld', RUN TRIM REINF CONTINUOUS.
4. MAY OMIT DIAGONALS IF THE LARGEST OPENING DIMENSION IS LESS THAN 12".
5. DETAIL IS NOT REQUIRED FOR OPENING SMALLER THAN THE WALL THICKNESS OR 12", WHICHEVER IS SMALLER.
6. COORDINATE OPNG LOCATIONS AND SIZES w/ OTHER TRADES INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING.

5 WALL REINFORCING AT OPENINGS

N.T.S.

3 NOT USED

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CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
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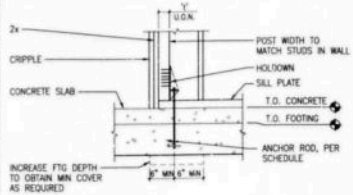
SHEET TITLE: TYPICAL CONCRETE DETAILS

SHEET NUMBER: S1.2

LAMBERT COORDINATES: 204-1721

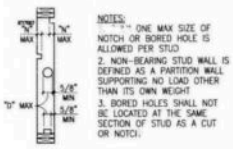
THOMAS BROTHERS PAGE: 60, D-6

(PSD #)



HOLDOWN SCHEDULE				
HOLDOWN TYPE	HOLDOWN	POST THICKNESS Y	A.B. @ TOP OF FTG MOMENT	# OF SDS SCREWS
HDU2	HDU2-SDS2.5	3 1/2"	SB5/8x24	8-SDS25212
HDU4	HDU4-SDS2.5	3 1/2"	SB5/8x24	8-SDS25212

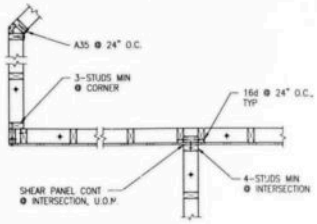
13 HOLDOWN SCHEDULE
N.T.S.



NOTES:
1. ONE MAX SIZE OF NOTCH OR BORED HOLE IS ALLOWED PER STUD
2. NON-BEARING STUD WALL IS DEFINED AS A PARTITION WALL SUPPORTING NO LOAD OTHER THAN ITS OWN WEIGHT
3. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.

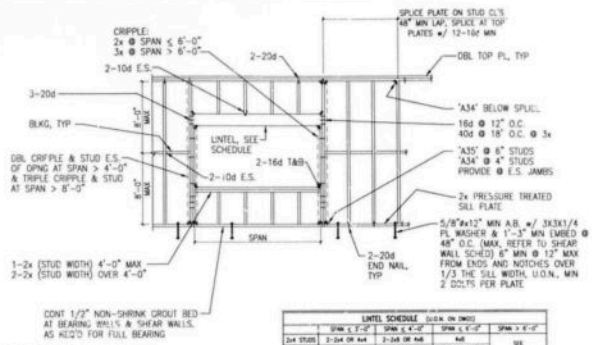
STUD	BEARING & EXT		NON-BEARING	
	"a"	"D"	"a"	"D"
2x4	7/8"	1 3/8"▪	1 3/8"	2"▪
2x6	1 3/8"	2 1/8"▪	2 1/8"	3 1/4"▪
2x8	1 7/8"	3"▪	3"	4 1/2"▪
2x10	2 3/8"	3 3/4"▪	3 3/4"	5 5/8"▪

10 TYPICAL STUD NOTCHING/HOLES
N.T.S.



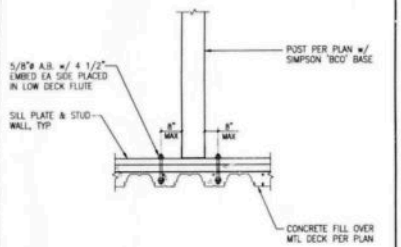
PLAN

7 TYPICAL SHEAR WALL INTERSECTIONS
N.T.S.

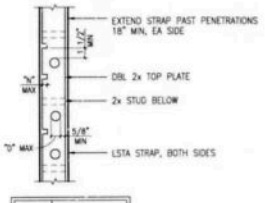


LINTEL SCHEDULE (U.O.N. ON PLANS)				
	SPAN ≤ 3'-0"	SPAN ≤ 4'-0"	SPAN ≤ 6'-0"	SPAN > 8'-0"
2x4 STUDS	2-2x4 OR 4x4	2-2x6 OR 4x6	4x6	SEE PLANS
2x6 STUDS	2-2x6 OR 4x6 FLAT	6x6 OR 5 1/8"x9" GLB	6x6 OR 5 1/8"x9" GLB	

4 STUD WALL FRAMING
N.T.S.



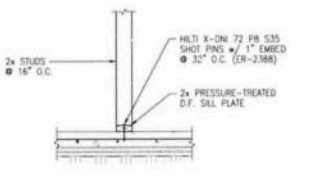
14 WOOD POST AT COMPOSITE DECK CONNECTION
1"=1'-0"



TOP PL	"a"	"D"
2x4	1 1/2"	2"▪
2x6	2"	3"▪
2x8	2 1/2"	4"▪
2x10	3"	5"▪

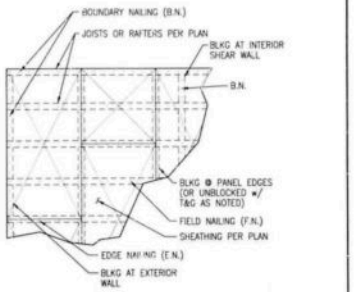
NOTE:
THREE MAX SIZE OF NOTCHES OR BORED HOLES ALLOWED PER 16"

11 TYPICAL TOP PLATE NOTCHING/HOLES
N.T.S.

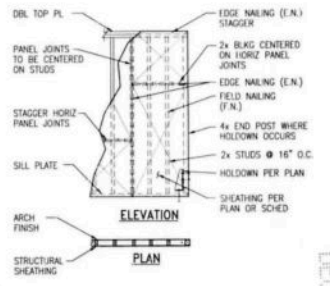


NOTE:
PARTITION ANCHORAGE TO CONCRETE FILL ON METAL DECK SIMILAR

8 TYPICAL NON-BEARING PARTITION ANCHORAGE
N.T.S.



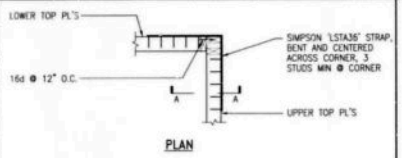
5 TYPICAL ROOF SHEATHING
N.T.S.



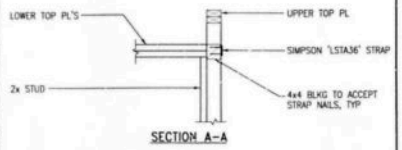
ELEVATION

PLAN

2 TYPICAL PLYWOOD SHEAR WALL
N.T.S.

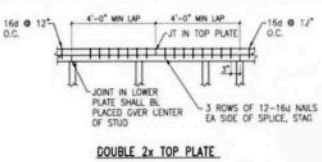


PLAN

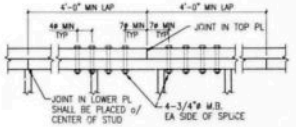


SECTION A-A

15 TYPICAL SPLICES AT CORNER OF STEEPED TO PLATES
N.T.S.

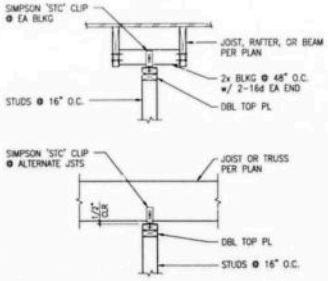


DOUBLE 2x TOP PLATE



DOUBLE 3x TOP PLATE

12 TYPICAL TOP PLATE SPLICE
N.T.S.



9 TYPICAL TOP OF NON-BEARING PARTITION ANCHORAGE
N.T.S.

SHEAR WALL SCHEDULE								
MARK	THICKNESS	GRADE/ EXPOSURE	NAIL SIZE	T.N. EDGES	SILL BOLTS OR NAILING	SIMPSON STR. STRAPPING	SHEAR CAPACITY	REMARKS
A	15/32"	STRUCT I 32/16	8d	6"	CONC: 5/8"ø x12" A.B.'S @ 48" WOOD: 16d @ 6"	@ 24" O.C.	280 PLF	
B	15/32"	STRUCT I 32/16	8d	4"	CONC: 5/8"ø x12" A.B.'S @ 48" WOOD: 16d @ 3" OR "SDS25412" @ 6" O.C.	@ 16" O.C.	430 PLF	
C	15/32"	STRUCT I 32/16	10d	4"	CONC: 5/8"ø x12" A.B.'S @ 32" WOOD: 16d @ 3"	@ 12" O.C.	510 PLF	
D	15/32"	STRUCT I 32/16	10d	3"	CONC: 5/8"ø x12" A.B.'S @ 16" WOOD: 16d @ 2"	@ 9" O.C.	870 PLF	
ST	-	-	-	-	CONC: (2) 5/8"ø x12" A.B.'S WOOD: (8) 1/4"ø x6" LAG SCREWS	-	1405 #	SIMPSON SW16x7x4 STRONG WALL (ICC ES ESR-2652)

SHEAR WALL SCHEDULE NOTES
1. ALL NAILS SHALL BE COMMON NAILS, U.O.N.
2. E.N. = EDGE NAILING
F.N. = FIELD NAILING
3. ALL PLYWOOD PANELS SHALL BE BLOCKED, U.O.N.
4. ALL ANCHOR BOLTS SHALL HAVE A MINIMUM EMBEDMENT OF 7" INTO CONCRETE, U.O.N.
5. FOR TYPICAL VERTICAL SHEAR PANEL APPLICATION SEE DETAIL 2/-
6. ALL SHEAR PANELS SHALL EXTEND FROM SILL/SOLE PLATE TO FLOOR/ROOF DIAPHRAGM SHEATHING.
7. PROVIDE A MINIMUM OF TWO ANCHOR BOLTS PER SHEAR WALL PANEL
8. TOE NAILING IS NOT ALLOWED FOR SHEAR TRANSFER NAILING OF SHEAR WALLS.
9. SHEATHING SHALL BE STRUCT. I PLYWOOD OR O.S.B.
10. ALL POSTS TO BE 4x4 OR 4x4, U.O.N.
11. ALL ANCHOR BOLTS TO HAVE 3"x3"x0.229" MINIMUM PLATE WASHERS

6 SHEAR WALL SHEATHING SCHEDULE
N.T.S.

DECEMBER 1, 2017

MJ structural engineers
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MJSE Project #15047

HERITAGE ARCHITECTURE & PLANNING
120 FIFTH AVENUE
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CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

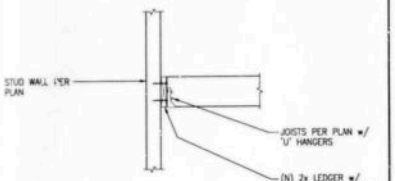
(A PORTION OF BALBOA PARK)

SHEET TITLE: TYPICAL WOOD DETAILS

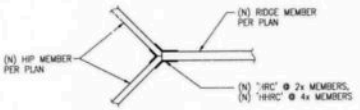
SHEET NUMBER: S1.3

LAMBERT COORDINATES 204-1721 | THOMAS BROTHERS PAGE: 60, D-6 | (PSD #)

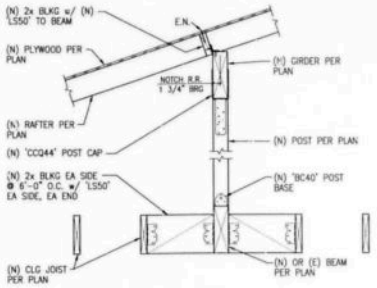
DWG #: COL-2748A RVSD CADD 15-067-15047 REV 5 ON 17 FEB 2017 PLOTTED ON 17 FEB 2017



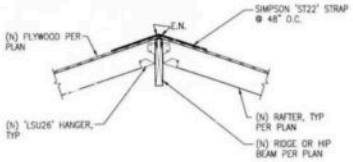
13 CEILING JOIST TO STUD WALL DETAIL
N.T.S.



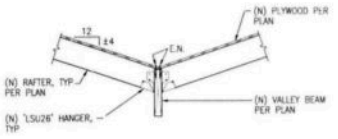
PLAN A – RIDGE TO HIP CONNECTION
N.T.S.



A – DETAIL AT GIRDERS

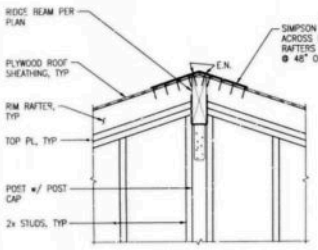


B – DETAIL AT RIDGE AND HIP BEAMS

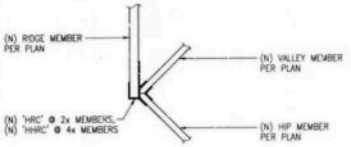


C – DETAIL AT VALLEY BEAMS

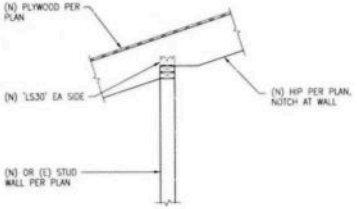
7 RAFTER DETAILS
1"=1'-0"



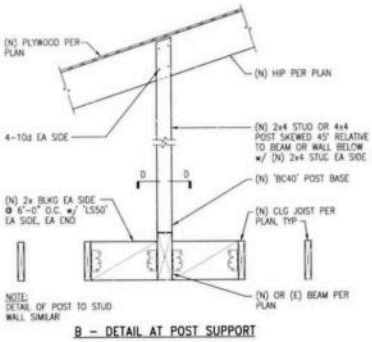
14 TYPICAL-STRAP GABLE END WALL AT RIDGE BEAM
N.T.S.



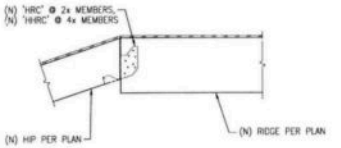
PLAN B – HIP AND VALLEY CONNECTION



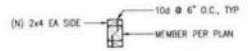
A – DETAIL AT WALL



B – DETAIL AT POST SUPPORT

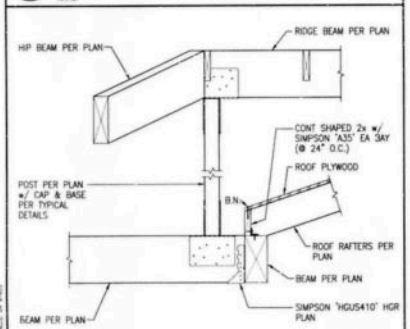


C – DETAIL AT RIDGE

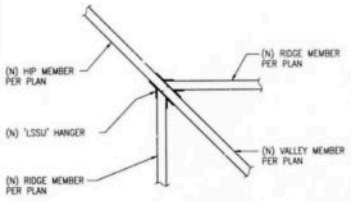


D – SECTION

8 HIP / VALLEY DETAILS
1"=1'-0"

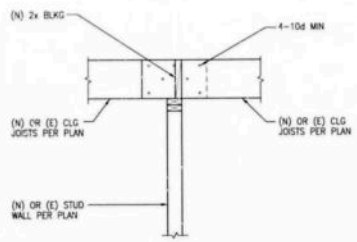


15 BEAM TO BEAM AND POST AT HIP/RIDGE
N.T.S.

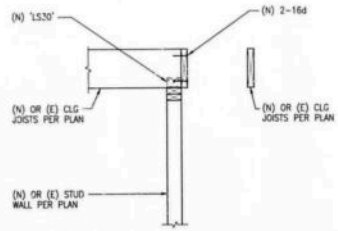


PLAN C – RIDGES TO HIP AND VALLEY CONNECTION

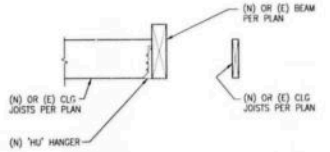
12 DETAILS- RIDGE, HIP, & VALLEY CONNECTIONS
N.T.S.



A – DETAIL



B – DETAIL



C – DETAIL

9 CEILING FRAMING DETAILS
1"=1'-0"

DECEMBER 1, 2017

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HERITAGE ARCHITECTS + PLANNERS 835 FIFTH AVENUE SAN DIEGO, CALIFORNIA 92101

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

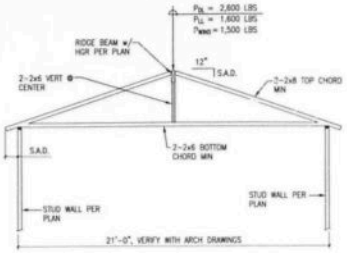
(A PORTION OF BALBOA PARK)

SHEET TITLE: TYPICAL WOOD DETAILS

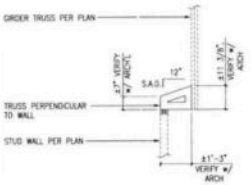
SHEET NUMBER: S1.4

LAMBERT COORDINATES 204-1721 THOMAS BROTHERS PAGE 60, D-6 (PSD #)

DWG #: COLUMBIA RIVER CASO 15-057-15047 REV 5 ON 5 BY JOB NUMBER TALS OF AREA



A-TRUSS ELEVATION
N.T.S.



B-TRUSS ELEVATION
N.T.S.

NOTES:
1. SEE S/S3.1 FOR ADDITIONAL INFORMATION.
2. VERIFY ALL DIMENSIONS & SLOPE w/ ARCH'L DRAWINGS.

PREFABRICATED (MANUFACTURED) WOOD TRUSSES

1. THE CONTRACTOR SHALL FIELD MEASURE (E) STRUCTURE AND SHALL CONSTRUCT THE NEW TRUSSES TO MATCH (E) LAYOUT.

2. TRUSSES SHALL BE DESIGNED, FABRICATED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2013 CALIFORNIA BUILDING CODE AND "THE DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES (ANSI/TPI-1 LATEST REVISION)

3. LUMBER: GRADE STAMPED OR MACHINE STRESS RATED DOUGLAS FIR/LARCH. CONNECTOR PLATES: A 446, GRADE A, MIN.

4. ROOF LOADS: EXCLUSIVE OF TRUSS WEIGHT

DEAD LOAD TOP CHORD	22 PSF
DEAD LOAD BOTTOM CHORD	8 PSF
LIVE LOAD TOP CHORD	20 PSF
LIVE LOAD BOTTOM CHORD	10 PSF NON-CONCURRENT

5. DESIGN CALCULATIONS & SHOP DRAWINGS: THE FABRICATOR SHALL SUBMIT FOR REVIEW, TRUSS DESIGN CALCULATIONS, INCLUDING WORKING STRESSES, ALLOWABLE STRESSES AND DEFLECTIONS, AND SHOP DRAWINGS, PREPARED BY A CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA. THE TOP CHORD SHALL BE SIZED FOR THE DIAPHRAGM NAILING SHOWN ON THE DRAWINGS. THE TRUSSES SHOWN ON THE DRAWINGS ARE PRELIMINARY AND MAY REQUIRE MODIFICATION AS REQUIRED BY THE MANUFACTURER'S CALCULATIONS.

6. CAMBER: TRUSSES SHALL BE CAMBERED FOR 1/3 OF DEAD LOAD DEFLECTIONS.

7. BRIDGING, BLOCKING, AND BRACING: THE TRUSS FABRICATOR SHALL PROVIDE ALL TRUSS BLOCKING, BRIDGING AND BRACING AS REQUIRED BY THE DRAWINGS, CODE OR THE FABRICATOR'S CALCULATIONS.

8. BOTTOM CHORD OF TRUSSES SHALL BE ATTACHED TO INTERIOR PARTITIONS WITH SIMPSON STC CLIP. PROVIDE 1/2" GAP AFTER DEAD LOAD DEFLECTION.

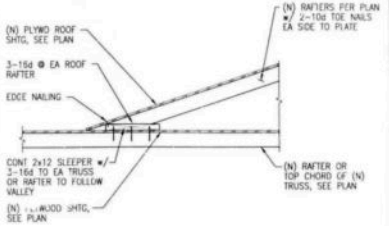
9. ROOF TRUSS DESIGN AND LAYOUT FROM MANUFACTURER SHALL BE SUBMITTED TO THE ENGINEER OF RECORD, MJ STRUCTURAL ENGINEERS, FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL NOT PROCEED WITHOUT WRITTEN APPROVAL OF THE TRUSS DESIGN AND LAYOUT.

10. USE 2x6 TOP CHORD OR DROPPED TOP CHORD AT GABLE TRUSSES.

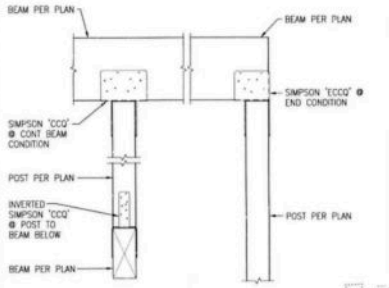
11. TRUSSES SHALL BE SUBMITTED TO THE CITY OF SAN DIEGO AS A DEFERRED APPROVAL.

12. THE TRUSS FABRICATOR SHALL BE AN APPROVED FABRICATOR AS DEFINED IN THE CBC SECTION 1704.2.2

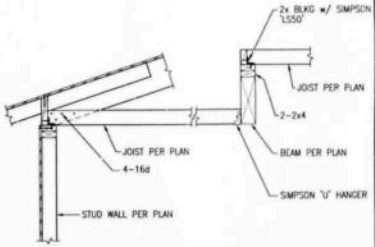
6 TRUSS ELEVATION
N.T.S.



1 CALIFORNIA INFILL FRAMING
N.T.S.



2 POST TO BEAM CONNECTION
1"=1'-0"



NOTE:
SEE 1 OR 3/S3.1 FOR ADDITIONAL INFORMATION NOT SHOWN

3 SECTION
1"=1'-0"

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MJSE Project #:1047

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DECEMBER 1, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

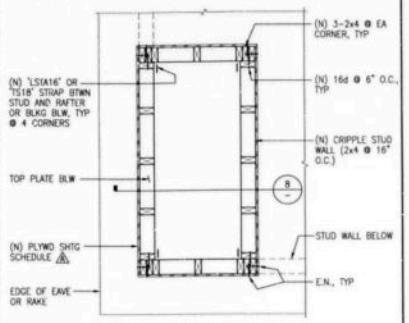
SHEET TITLE: TYPICAL WOOD DETAILS

SHEET NUMBER: S1.5

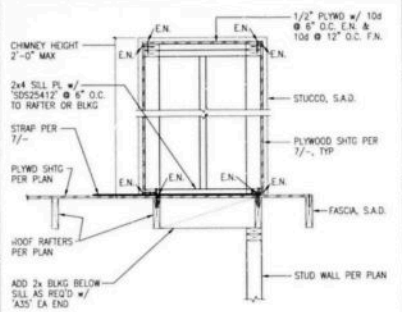
LAMBERT COORDINATES: 204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

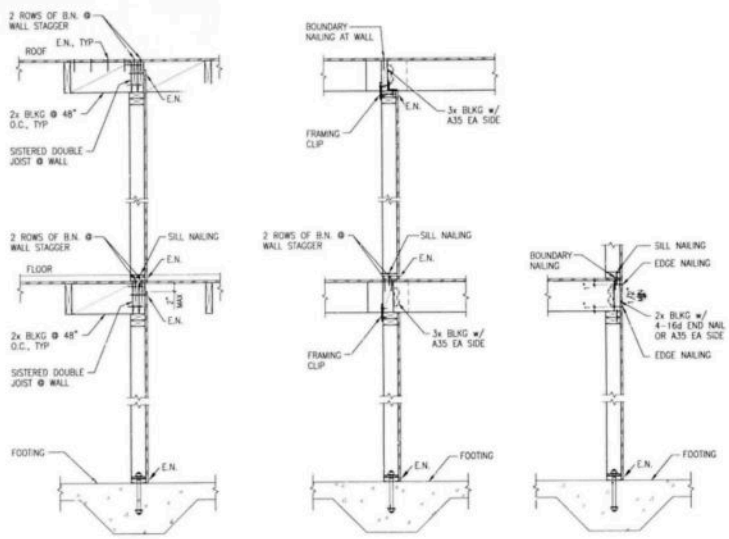


7 CHIMNEY PLAN
1"=1'-0"



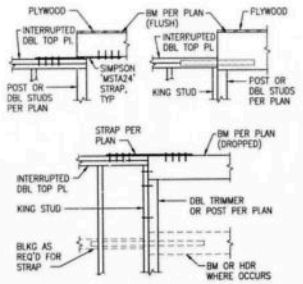
NOTE:
SEE T1 OR 2/S3.1 FOR ADDITIONAL INFORMATION NOT NOTED

8 SECTION AT CHIMNEY
1"=1'-0"

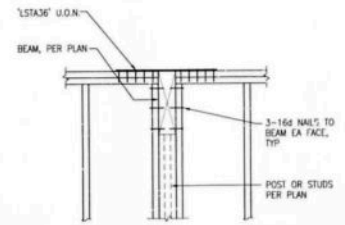


NOTES:
1. DETAIL SIMILAR AT DOUBLE SIDED SHEATHING
2. SEE SHEAR WALL FRAMING DETAIL FOR INFO NOT NOTED

5 SHEAR WALL SECTIONS
N.T.S.



6 TYPICAL STRAP DETAILS
N.T.S.



3 TYPICAL STRAP AT BEAM FLUSH WITH WALL
N.T.S.

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MJSE Project #15-047

HERITAGE ARCHITECTS & PLANNERS 425 FIFTH AVENUE SAN DIEGO CALIFORNIA 92101

DECEMBER 1, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

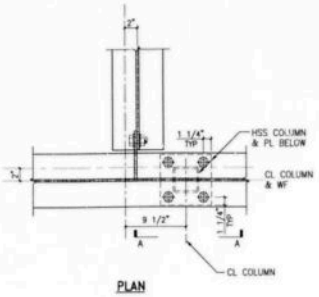
SHEET TITLE: TYPICAL WOOD DETAILS

SHEET NUMBER: S1.6

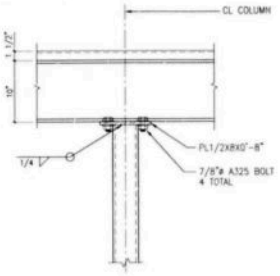
LAMBERT COORDINATES 204-1721

THOMAS BROTHERS PAGE 60, D-6

(PSD #)



PLAN



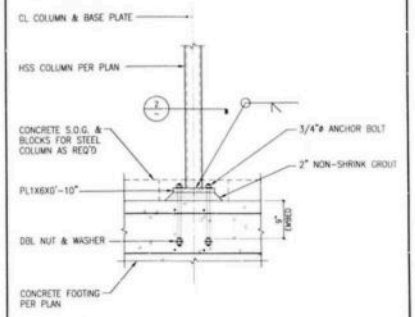
ELEVATION A–A

8 DETAIL
1 1/2"=1'-0"

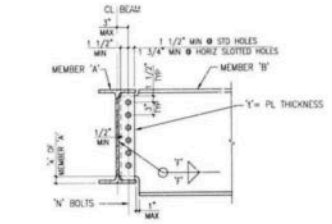
BEAM CONNECTION SCHEDULE				
NOMINAL MEMBER DEPTH	SHEAR PL THICK "T" ESS (-)	FASTENERS A325-X U.O.N. ("N")	WELD SIZE ("F")	REMARKS
HSS LESS THAN 8"	3/8"	2-7/8" ø	5/16"	
8", 10"	3/8"	2-7/8" ø	5/16"	
12", 14"	3/8"	3-7/8" ø	5/16"	
16"	1/2"	4-7/8" ø		
18"	1/2"	4-7/8" ø	3/8"	
21"	1/2"	5-7/8" ø	3/8"	
24"	1/2"	6-7/8" ø	3/8"	
27"	1/2"	7-7/8" ø	3/8"	
30"	1/2"	8-7/8" ø	3/8"	

NOTES:
1. BOLT HOLES TO BE STANDARD HOLES 1/16" GREATER THAN BOLT DIAMETER. SHORT SLOTTED HOLES IN SHEAR PL MAY BE USED ONLY WHERE NOTED.
2. BOLTS TO BE FULLY PRETENSIONED A325-X WITH HARDENED WASHERS, U.O.N.
3. SCHEDULE BASED ON NOMINAL DEPTH OF WIDE FLANGE BEAMS, CHANNELS, TUBES & OTHER MISCELLANEOUS SHAPES.

4 BOLTED BEAM CONNECTION SCHEDULE
N.T.S.

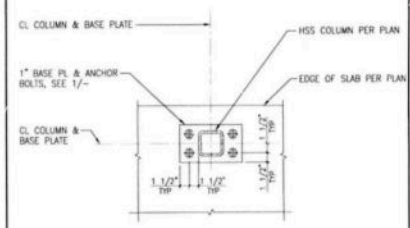


1 TYPICAL NON-FRAME HSS COLUMN BASE DETAIL
1"=1'-0"

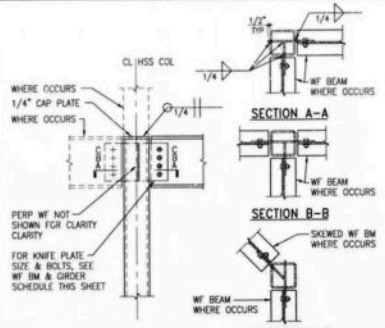


NOTES:
1. SIMILAR CONDITIONS APPLY FOR BEAMS ON BOTH SIDES OF MEMBER 'A'
2. FOR WELD SIZE 'F' NUMBER OF BOLTS 'N,' & PL THICKNESS 'T', SEE BOLTED BEAM TO BEAM CONNECTION SCHEDULE
3. SHORT SLOTTED HOLES IN SHEAR PL MAY BE USED
4. IF MEMBER 'B' < 8", SEE BEAM TO BEAM CONNECTION – MEMBER 'A' > MEMBER 'B'

5 BEAM TO BEAM CONNECTION MEMBER 'A' ≤ MEMBER 'B'
N.T.S.



2 HSS COLUMN BASE DETAIL
1 1/2"=1'-0"



6 THROUGH-PLATE CONNECTION FOR WF BEAM TO HSS COLUMN
N.T.S.

3 NOT USED

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DECEMBER 1, 2017

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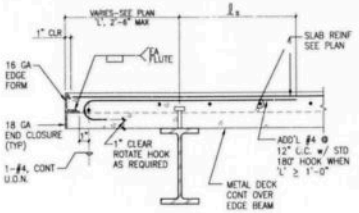
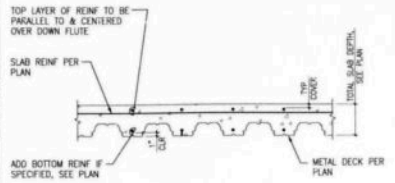
(A PORTION OF BALBOA PARK)

SHEET TITLE	SHEET NUMBER
TYPICAL STEEL DETAILS	S1.7

LAMBERT COORDINATES 204-1721 THOMAS BROTHERS PAGE 60, D-6 (PSD #)



10 INTERIOR SLAB EDGE PERPENDICULAR TO DECK
N.T.S.

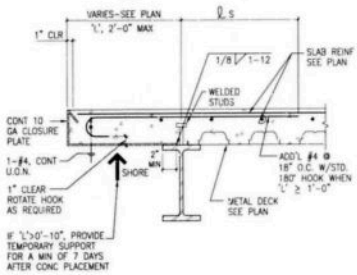


7 METAL DECK CONCRETE FILL REINFORCING
N.T.S.

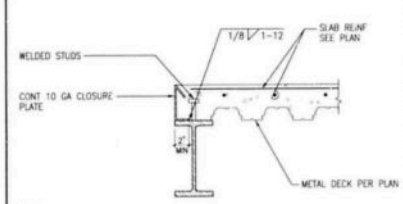
SLAB TYPE	DECK PROFILE	HEIGHT	GAUGE	FACTORY VENTED	MINIMUM SECTION PROPERTIES			FILL		STUD SIZE	SLAB REINFORCING	REMARKS
					I (IN.⁴)	+S (IN.³)	-S (IN.³)	TYPE	MINIMUM THICKNESS ABOVE TOP FLUTE			
PER PLAN	W	3"	18	YES	1.203	0.767	0.767	N.W.C.	2"	3/4"Ø x4 1/2"	#4 @ 12" O.C. E.W.	

NOTES:
1. WHENEVER POSSIBLE DECK LAYOUTS SHALL PROVIDE SHEETS OF SUFFICIENT LENGTH TO SPAN CONTINUOUSLY ACROSS AT LEAST THREE SPANS. ENDS SHALL TERMINATE OVER A SUPPORT PERPENDICULAR TO THE DECK SPAN, EXCEPT AT OPENINGS OR BUILDING EDGES WHERE DECKS MAY BE CANTILEVERED
2. * SHORE DECK AS REQUIRED BY MANUFACTURER
3. PROVIDE A MINIMUM OF 2" BEARING AT SUPPORTING MEMBERS PERPENDICULAR TO DECK SPAN AND 1 1/2" AT MEMBERS PARALLEL TO THE DECK
4. CONCRETE FILL THICKNESS SHOWN ON FRAMING PLANS AND DETAIL SHEETS ARE MINIMUM THICKNESS. PROVIDE ADDITIONAL CONCRETE FILL AS REQUIRED TO COMPENSATE FOR BEAM OR DECK DEFLECTIONS AND TO MAINTAIN SURFACE TOLERANCES SPECIFIED
5. SEE DETAIL TITLED "METAL DECK CONNECTIONS" FOR CONNECTION INFORMATION
6. SEE PLAN FOR STUD LOCATIONS
7. USE VERCO METAL DECK PER ICC-ES ESR-1735 OR APPROVED EQUAL

4 METAL DECK SCHEDULE
N.T.S.

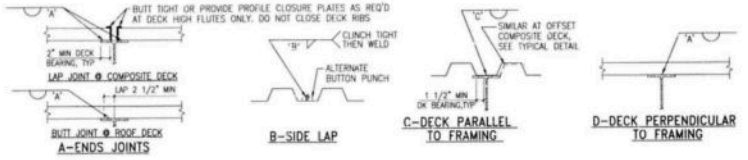


11 SLAB EDGE PARALLEL TO DECK
N.T.S.



NOTE:
DECK PERPENDICULAR TO BEAMS IS SIMILAR

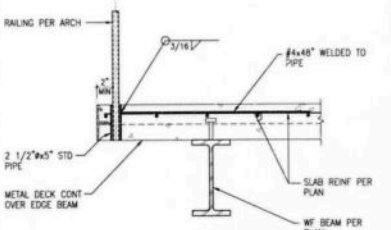
8 SLAB EDGE PARALLEL TO METAL DECK
N.T.S.



WELD SCHEDULE						
SLAB TYPE	'A'	'B'		'C'	ALTERNATE BUTTON PUNCH	REMARKS
		SIDE SEAM WELD	TOP SEAM WELD			
PER PLAN	3/4"Ø @ 12"O.C.	1 1/2" @ 24"O.C.	N/A	3/4"Ø @ 12"O.C.	3/16"Ø @ 18"O.C.	

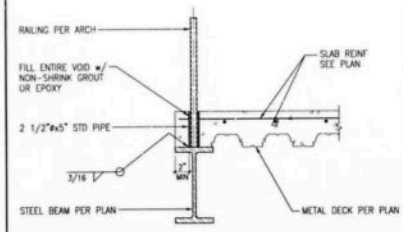
5 METAL DECK CONNECTIONS
N.T.S.

NOTES:
1. SHEAR STUDS MAY REPLACE WELD ATTACHMENT TO STEEL FRAMING ONE FOR ONE AT COMPOSITE METAL DECK PROVIDED THERE IS A MINIMUM OF 1" BETWEEN EDGE OF DECK AND STUD CENTERLINE
2. DIAMETER OF PUDDLE WELD REPRESENTS EFFECTIVE FUSION AREA
3. SEE SPECIFICATIONS FOR ALTERNATE DECK FASTENING METHODS



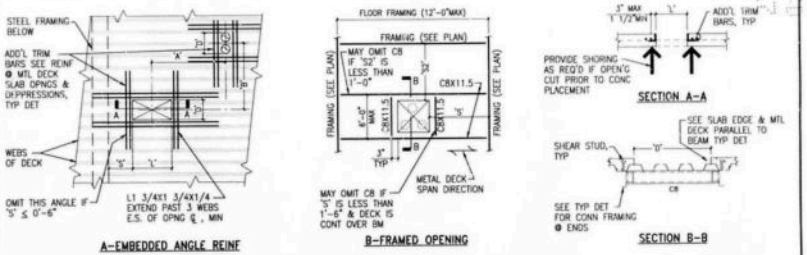
NOTE:
REFER TO 9 & 10/S1.8 FOR INFORMATION NOT NOTED

12 RAILING SUPPORT AT CANTILEVER SLAB
N.T.S.



NOTE:
DECK PERPENDICULAR TO BEAMS IS SIMILAR

9 RAILING SUPPORT
N.T.S.



NOTES:
1. DETAIL B APPLICABLE TO ALL OPENINGS
2. DETAIL A APPLICABLE ONLY TO OPENINGS SATISFYING ALL OF THE FOLLOWING:
   'D' ≤ 16" (DIM PERPENDICULAR TO DECK SPAN)
   'L' ≤ 2'-0" (DIM PARALLEL TO DECK SPAN)
   'A' OR 'B' GREATER THAN 4D & 32", WHERE D IS MAX OF ADJACENT OPENINGS (DIMENSIONS TO ADJACENT OPENINGS)
3. HOLES UP TO 6" MAX IN BOTH DIRECTIONS MAY OMIT TRIM REINFORCEMENT
4. USE SIMILAR REINFORCING @ NON-COMPOSITE DECK

3 COMPOSITE DECK OPENING REINFORCING
N.T.S.

DECEMBER 1, 2017

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MJSE Project #15047

HERITAGE ARCHITECTURE + PLANNING
825 FIFTH AVENUE
SAN DIEGO, CALIFORNIA 92101

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: TYPICAL METAL DECK DETAILS

SHEET NUMBER: S1.8

LAMBERT COORDINATES 204-1721

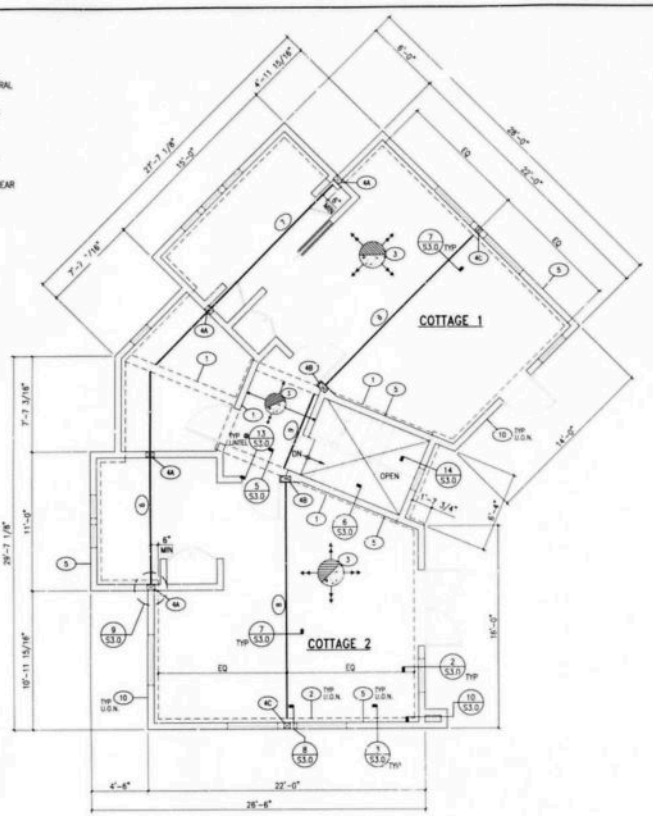
THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

USE OF COLUMBIA RIVER CASD 15-007-15047 SDS 2 DWG 2 OF 2 SHEETS DWG

PLAN NOTES:

1. ANY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY AND COORDINATE DIMENSIONS AND OTHER INFORMATION WITH DRAWINGS BY OTHERS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.
4. STEEL STAIRS TO BE DESIGNED AND DETAILED BY CONTRACTOR/STEEL FABRICATOR. SHOP DRAWINGS TO BE SUBMITTED TO OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL.
5. BEAM SIZE (#) DENOTES THE NUMBER OF 3/4" DIA SHEAR STUDS DISTRIBUTED EVENLY ALONG THE BEAM SPAN, SEE 7/S3.0 FOR ADDITIONAL INFORMATION



KEYNOTES:

1. 8" CONCRETE WALL BELOW, SEE 1/-
2. 10" CONCRETE WALL BELOW, SEE 1/-
3. 2" NWC FILL OVER 3"x16 GA VERCO W3 METAL DECK (5" TOTAL DEPTH, 2-SPAN MIN) w/ β3 @ 12" O.C. EA WAY
4A. 4x8 POST
4B. 4x8 POST
4C. 6x6 POST
5. 2x6 STUDS @ 16" O.C., TYP U.O.N. (CONT FULL-HT TO ROOF FRAMING)
6. W12X14 [16]
7. W12X19 [20]
8. W12X19 [18]
9. W12X14 [6]
10. 2x4 STUDS @ 16" O.C.

2 GROUND FLOOR FRAMING PLAN - COTTAGE 1/2

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

PLAN NOTES:

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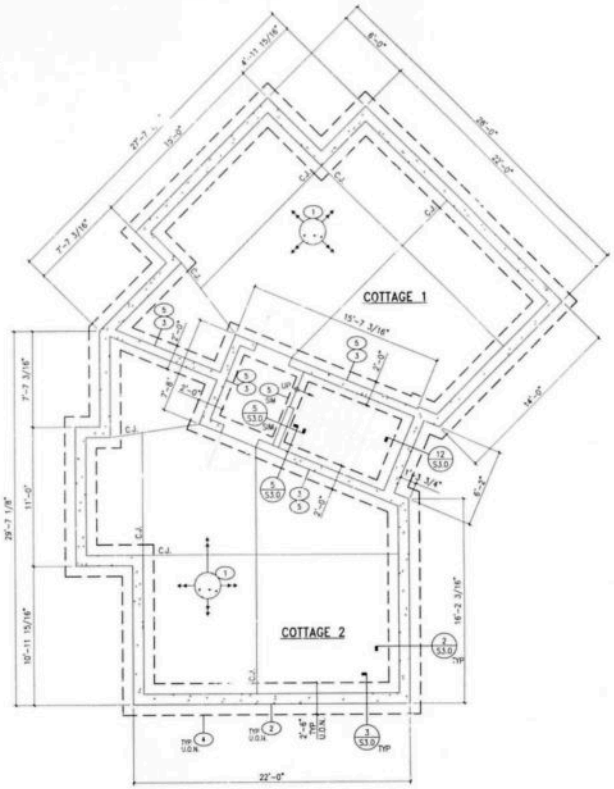

KEYNOTES:

1. 5" CONCRETE SLAB ON GRADE w/ β4 @ 12" O.C. EACH WAY AT CENTER LINE OF SLAB
2. 10" CONCRETE WALL, TYP AT PERIMETER
3. 8" CONCRETE WALL, TYP ON INTERIOR
4. 2'-6" CONCRETE STRIP FOOTING CENTERED ON WALL, TYP AT PERIMETER
5. 2'-0" CONCRETE STRIP FOOTING CENTERED ON WALL

1 BASEMENT/FOUNDATION PLAN - COTTAGE 1/2

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

MJ structural engineers
7710 Balboa Ave, Suite 206-C
San Diego, CA 92111
Phone: 858.442.7771
Fax: 619.996.2032
MJSE Project #: 1047

HERITAGE ARCHITECTURE & PLANNING
933 FIFTH AVENUE SAN DIEGO, CALIFORNIA 92101

DECEMBER 1, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE	SHEET NUMBER
COTTAGE 1/2- BASEMENT/FOUNDATION PLAN & GROUND FLOOR FRAMING PLAN	S2.1A

LAMBERT COORDINATES 204-1721 | THOMAS BROTHERS PAGE: 60, D-6 | (PSD #)

USE BY COLUMBIA RIVER CADD 15-087-1047 2017-12-01 PLOT BY ##### ON 8½X11

PLAN NOTES:

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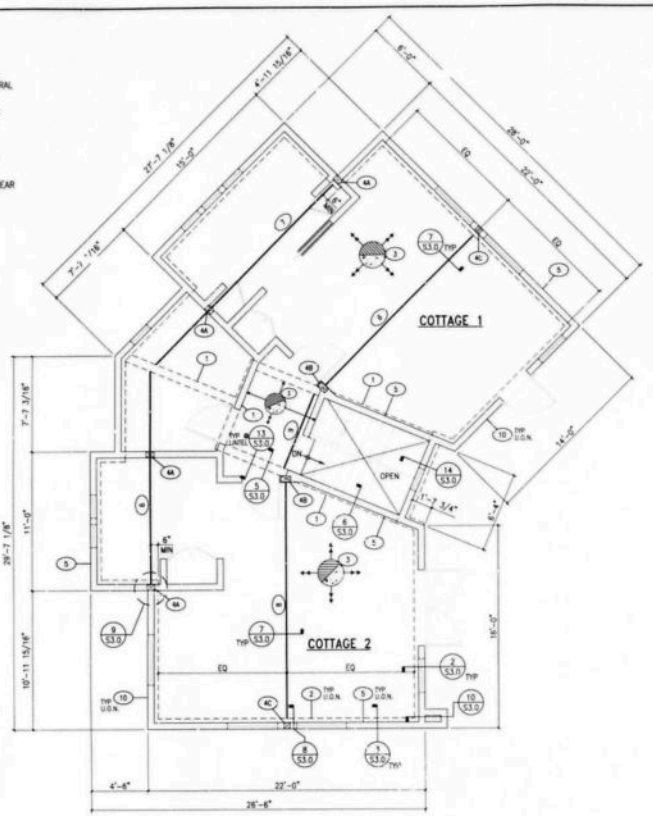
5. BEAM SIZE (#) DENOTES THE NUMBER OF 3/4" DIA SHEAR STUDS DISTRIBUTED EVENLY ALONG THE BEAM SPAN, SEE 7/S3.0 FOR ADDITIONAL INFORMATION



KEYNOTES:

1. 8" CONCRETE WALL BELOW, SEE 1/-
2. 10" CONCRETE WALL BELOW, SEE 1/-
3. 2" NWC FILL OVER 3"x16 GA VERCO W3 METAL DECK (5" TOTAL DEPTH, 2-SPAN MIN) w/ β3 @ 12" O.C. EA WAY
4A. 4x8 POST
4B. 4x8 POST
4C. 6x6 POST
5. 2x6 STUDS @ 16" O.C., TYP U.O.N. (CONT FULL-HT TO ROOF FRAMING)
6. W12X14 [16]
7. W12X19 [20]
8. W12X19 [18]
9. W12X14 [6]
10. 2x4 STUDS @ 16" O.C.

2 GROUND FLOOR FRAMING PLAN - COTTAGE 1/2

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

PLAN NOTES:

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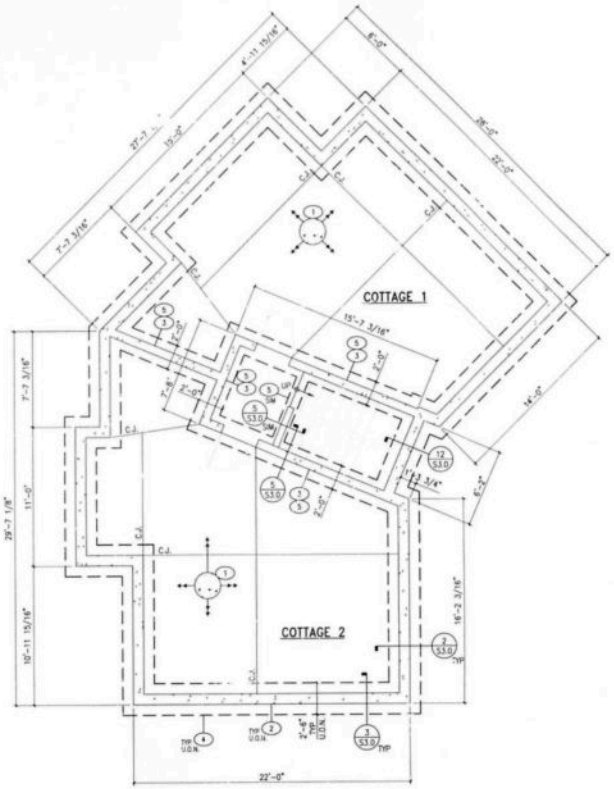

KEYNOTES:

1. 5" CONCRETE SLAB ON GRADE w/ β4 @ 12" O.C. EACH WAY AT CENTER LINE OF SLAB
2. 10" CONCRETE WALL, TYP AT PERIMETER
3. 8" CONCRETE WALL, TYP ON INTERIOR
4. 2'-6" CONCRETE STRIP FOOTING CENTERED ON WALL, TYP AT PERIMETER
5. 2'-0" CONCRETE STRIP FOOTING CENTERED ON WALL

1 BASEMENT/FOUNDATION PLAN - COTTAGE 1/2

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

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MJSE Project #: 1047

HERITAGE ARCHITECTURE & PLANNING
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DECEMBER 1, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE	SHEET NUMBER
COTTAGE 1/2- BASEMENT/FOUNDATION PLAN & GROUND FLOOR FRAMING PLAN	S2.1A

LAMBERT COORDINATES 204-1721 | THOMAS BROTHERS PAGE: 60, D-6 | (PSD #)

USE BY COLUMBIA RIVER CADD 15-087-1047 2017-12-01 PLOT BY ##### ON 8½X11

PLAN NOTES:

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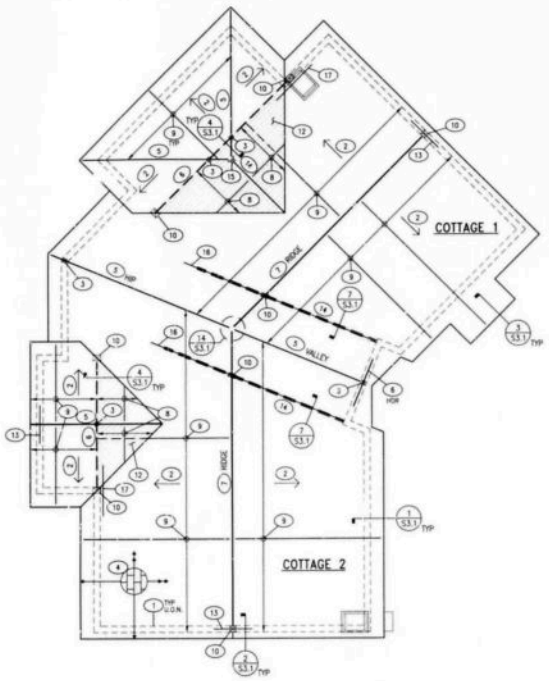
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.
4. ROOF SHEATHING TO BE 1/2" PLYWOOD (STRUCT 1) WITH 10d @ 6" O.C. EDGE NAILING & 10d @ 12" O.C. FIELD NAILING.
5. STARTER BOARDS SHALL BE 1x TONGUE & GROOVE w/ 2-10d NAILS PER SUPPORT, APPEARANCE PER ARCHITECT.



KEYNOTES:

1. GROUND FLOOR WALL BELOW, SEE 1/-
2. INDICATES DIRECTION OF ROOF SLOPE
3. 4x4 POST BELOW
4. PLYWOOD AND 1x T&G ROOF SHEATHING, SEE PLAN NOTE 4 & 5
5. 4x10
6. 3 1/2x12 GLB C = 1/2"
7. 3 1/2x16 1/2 GLB C = 3/4"
8. 2x8 @ 24" O.C.
9. 2x8 @ 24" O.C.
10. POST BELOW, SEE 2/S2.1A & 2/S1.5
11. INTERIOR SHEAR WALL BELOW
12. SHADED REGION INDICATES AREA OF CALIFORNIA INFILL FRAMING
13. SIMPSON 'MSTC52' STRAP AT TOP PLATE
14. 2x10
15. SIMPSON 'LSH0' EACH SIDE
16. SIMPSON 'CS14'x10'-0" OVER PLYWOOD TO BLKG
17. SIMPSON 'MST48' STRAP

2 ROOF FRAMING PLAN - COTTAGE 1/2

SCALE: 1/4" = 1'-0"
0 1 2 4 8 FEET
REFERENCE ACTUAL

PLAN NOTES:

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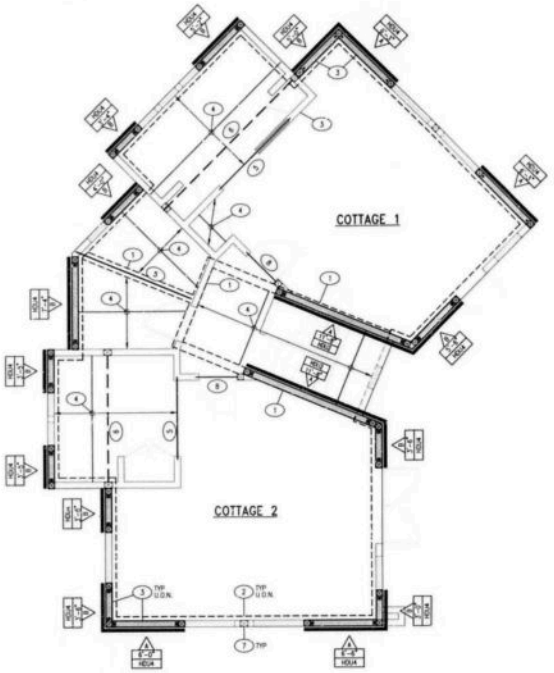


KEYNOTES:

1. 8" CONCRETE WALL BELOW, SEE S2.1A
2. 10" CONCRETE WALL BELOW, SEE S2.1A
3. STUD WALL PER 2/S2.1A
4. 2x8 CEILING JOISTS @ 16" O.C., TYP U.O.N., USE SIMPSON 'LS70' BTWN CEILING JOIST AND SKEWED BEAM
5. 4x8 CEILING BEAM
6. ROOF BEAM, SEE 2/-
7. POST PER 2/S2.1A, TYP
8. 4x6 HEADER

1 GROUND FLOOR SHEAR WALLS/ CEILING FRAMING PLAN - COTTAGE 1/2

SCALE: 1/4" = 1'-0"
0 1 2 4 8 FEET
REFERENCE ACTUAL

DECEMBER 1, 2017

MJ structural engineers
7710 Balboa Ave, Suite 206-C
San Diego, CA 92111
Phone: 858.442.7771
Fax: 619.996.2082
MJSE Project #15047

HERITAGE ARCHITECTURE & PLANNING
845 FIFTH AVENUE SAN DIEGO, CALIFORNIA 92101

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

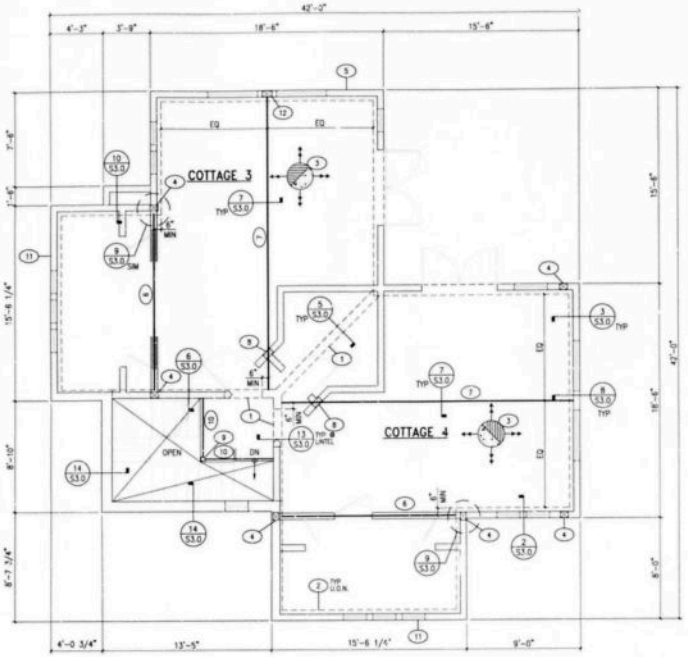
(A PORTION OF BALBOA PARK)

SHEET TITLE: COTTAGE 1/2- GROUND FLOOR PLAN & ROOF FRAMING PLAN

SHEET NUMBER: S2.1B

LAMBERT COORDINATES 204-1721 THOMAS BROTHERS PAGE 60, D-6 (PSD #)

DATE: 12-07-2017 PLOT: 12-07-2017 FILE: P:\15-047 COLUMBIA RIVER CADD\15-047-15047.dwg



KEYNOTES:

1. 8" CONCRETE WALL BELOW, SEE 1/-
2. 10" CONCRETE WALL BELOW, SEE 1/-
3. 2" NWC FILL OVER 3"x16 GA VERCO W3 METAL DECK (5" TOTAL DEPTH, 2-SPAN MIN)
4. 4x6 POST
5. 2x6 STUDS @ 16" O.C., TYP U.O.N. (CONT FULL-HT TO ROOF FRAMING)
6. W12X14 [12]
7. W12X26 [28]
8. 4x8 POST
9. HSS4X4X1/4
10. W12X14 [5]
11. 2x4 STUDS @ 16" O.C., TYP U.O.N.
12. 6x6 POST

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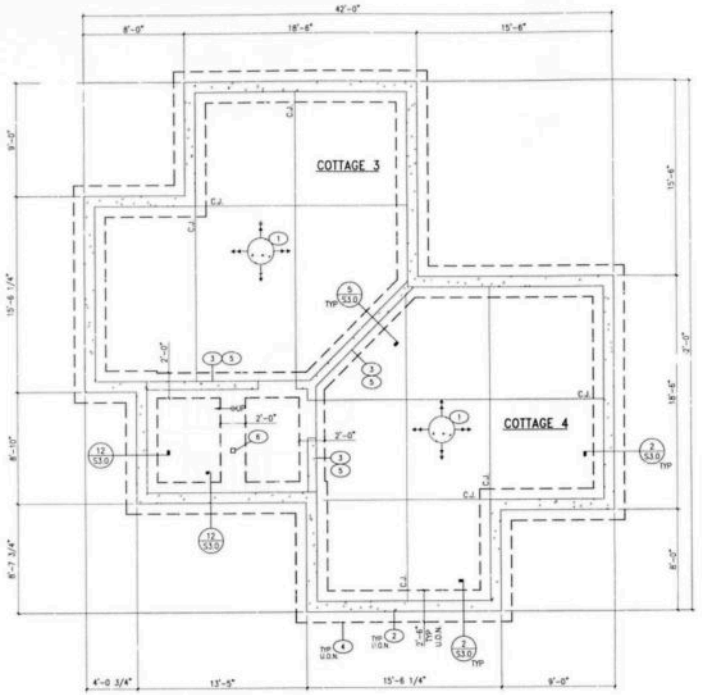
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.
4. STEEL STAIRS TO BE DESIGNED AND DETAILED BY CONTRACTOR/STEEL FABRICATOR. SHOP DRAWINGS TO BE SUBMITTED TO OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL.
5. BEAM SIZE [#] DENOTES THE NUMBER OF 3/4" DIA SHEAR STUDS DISTRIBUTED EVENLY ALONG THE BEAM SPAN, SEE 7/S3.0 FOR ADDITIONAL INFORMATION

2 GROUND FLOOR FRAMING PLAN - COTTAGE 3/4

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL



KEYNOTES:

1. 5" CONCRETE SLAB ON GRADE w/ #4 @ 12" O.C. EACH WAY AT CENTER LINE OF SLAB
2. 10" CONCRETE WALL, TYP AT PERIMETER
3. 8" CONCRETE WALL, TYP ON INTERIOR
4. 2'-6" CONCRETE STRIP FOOTING CENTERED ON WALL, TYP AT PERIMETER
5. 2'-0" CONCRETE STRIP FOOTING
6. HSS4X4X1/4 w/ CONCRETE FOOTING, SEE 1 & 2/S1.7

PLAN NOTES:

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3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.

1 BASEMENT/FOUNDATION PLAN - COTTAGE 3/4

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

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7710 Balboa Ave. Suite 206-C
San Diego, CA 92111
Phone: 858.442.7771
Fax: 619.996.2082
MJSE Project #15047

HERITAGE ARCHITECTURE & PLANNING 825 FIFTH AVENUE SAN DIEGO CALIFORNIA 92101

DECEMBER 1, 201

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

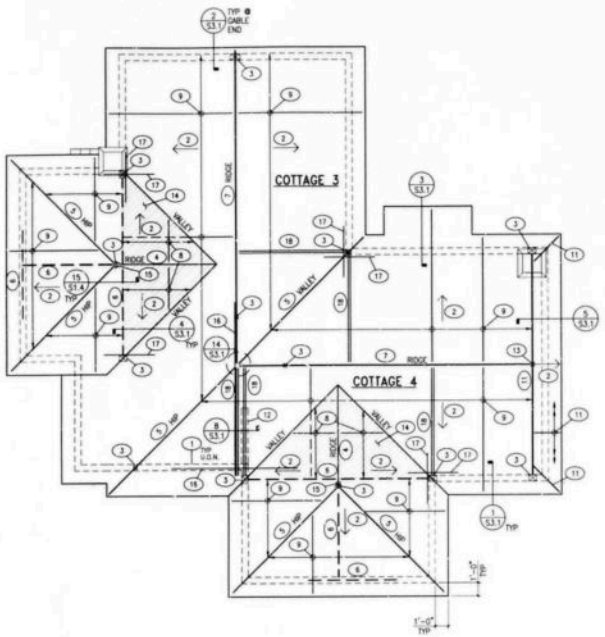
(A PORTION OF BALBOA PARK)

SHEET TITLE: COTTAGE 3/4- BASEMENT/FOUNDATION PLAN & GROUND FLOOR FRAMING PLAN

SHEET NUMBER: S2.2A

LAMBERT COORDINATES 204-1721 THOMAS BROTHERS PAGE: 60. D-6

(PSD #)



KEYNOTES:

1. GROUND FLOOR WALL BELOW, SEE S2.1E
2. INDICATES DIRECTION OF ROOF SLOPE
3. POST BELOW, SEE 2/S2.2B (4x4 MIN AT HIPS), 2/S1.5 & 15/S1.4
4. 4x10 RIDGE
5. 4x10 HIP/VALLEY
6. 3 1/2x12 GLB C = 1/2"
7. 3 1/2x16 1/2 GLB C = 3/4"
8. 2x6 @ 24" O.C.
9. 2x8 @ 24" O.C.
10. NOT USED
11. TRUSS PER SHEET S1.5 TO BE DESIGNED BY TRUSS FABRICATOR
12. SHEAR WALL BELOW
13. SIMPSON "HGUS410/12" HANGER
14. SHADED REGION INDICATES AREA OF CALIFORNIA INFILL FRAMING
15. SIMPSON "HHRC44" RIDGE TO HIP HANGER
16. SIMPSON "CS14"x10'-0" OVER PLYWOOD ALIGNED w/ BLKG OR DOUBLE ROOF RAFTER
17. SIMPSON "MST48" STRAP, ALIGN DOUBLE ROOF RAFTER w/ EDGE NAILING AS REQ'D
18. ALIGN DOUBLE ROOF RAFTER w/ EDGE NAILING

PLAN NOTES:

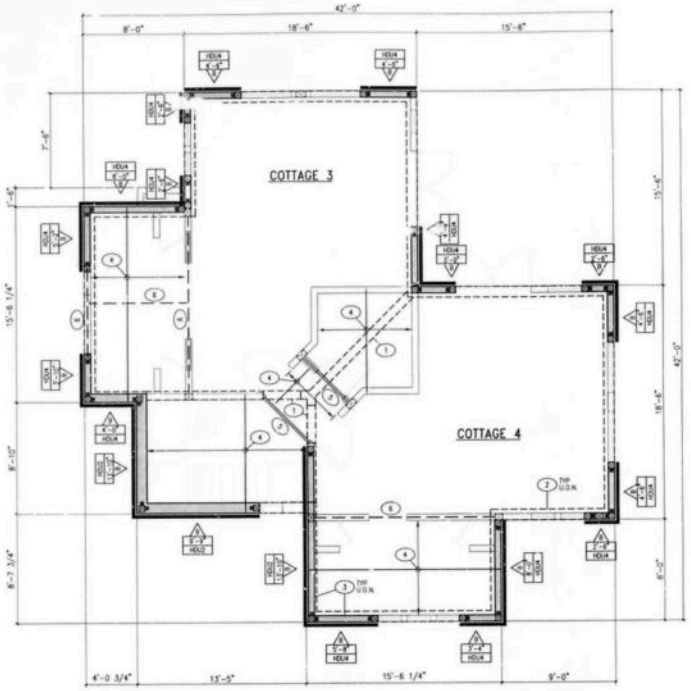
1. ANY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY AND COORDINATE DIMENSIONS AND OTHER INFORMATION WITH DRAWINGS BY OTHERS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.
4. ROOF SHEATHING TO BE 1/2" PLYWOOD (STRUCT 1) WITH 10d @ 6" O.C. EDGE NAILING & 10d @ 12" O.C. FIELD NAILING.
5. STARTER BOARDS SHALL BE 1x TONGUE & GROOVE w/ 2-10d NAILS PER SUPPORT, APPEARANCE PER ARCHITECT.

(2) ROOF FRAMING PLAN - COTTAGE 3/4

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL



KEYNOTES:

1. 8" CONCRETE WALL BELOW, SEE S2.3A
2. 10" CONCRETE WALL BELOW, SEE S2.3A
3. STUD WALL PER 2/S2.3A
4. 2x8 CEILING JOISTS @ 16" O.C., TYP U.O.N., USE SIMPSON LS70 BTWN CEILING JOIST TO SKEWED BEAM
5. 2-2x8 CEILING JOISTS
6. ROOF BEAM, SEE 2/-

PLAN NOTES:

1. ANY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY AND COORDINATE DIMENSIONS AND OTHER INFORMATION WITH DRAWINGS BY OTHERS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.
4. ALL GABLE WALLS TO BE 2x6 STUDS @ 16" O.C., ALL OTHER WALLS TO BE 2x4 STUDS @ 16" O.C., U.O.N.

(1) GROUND FLOOR SHEAR WALLS/ CEILING FRAMING PLAN - COTTAGE 3/4

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

MJ structural engineers
7710 Balboa Ave. Suite 206-C
San Diego, CA 92111
Phone: 858.442.7771
Fax. 619.996.2082
MJSE Project #15147

HERITAGE ARCHITECTS + PLANNERS
933 FIFTH AVENUE SAN DIEGO CALIFORNIA 92101

DECEMBER 1, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

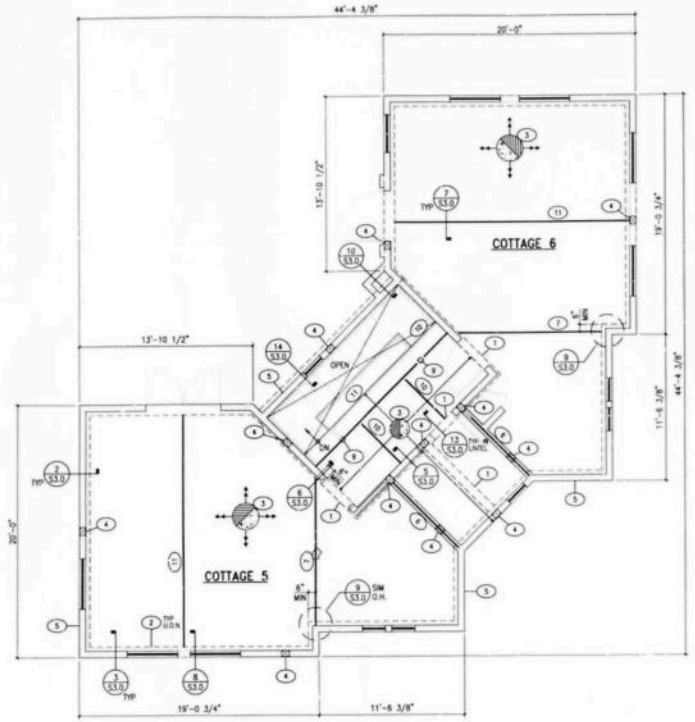
INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: COTTAGE 3/4- GROUND FLOOR PLAN & ROOF FRAMING PLAN

SHEET NUMBER: S2.2B

LAMBERT COORDINATES 204-1721 | THOMAS BROTHERS PAGE 60, D-6 | (PSD #)



KEYNOTES:

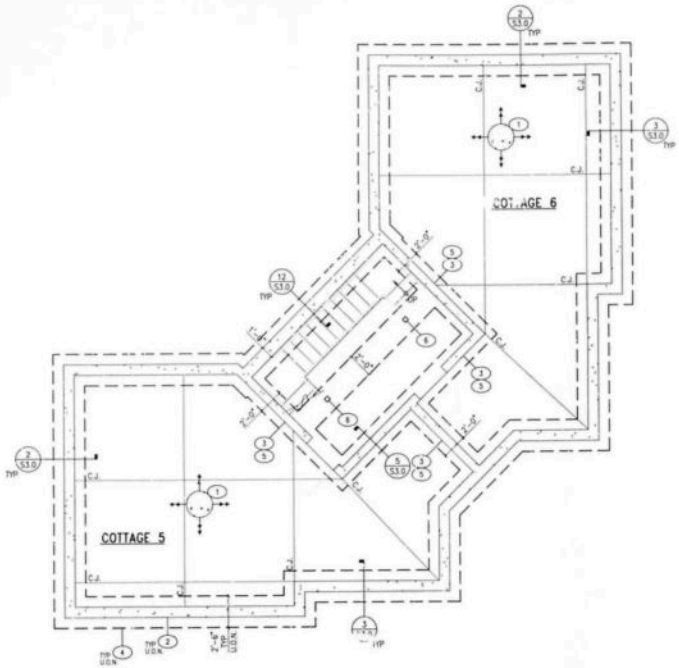
1. 8" CONCRETE WALL BELOW, SEE 1/-
2. 10" CONCRETE WALL BELOW, SEE 1/-
3. 2" NWC FILL OVER 3"x16 GA VERCO W3 METAL DECK (5" TOTAL DEPTH, 2-SPAN MIN)
4. 4x6 POST
5. 2x6 STUDS @ 16" O.C., TYP U.O.N. (CONT FULL-HT TO ROOF FRAMING)
6. W12X14 [7]
7. W12X19 [12]
8. NOT USED
9. HSS4X4X1/4 BELOW
10. W12X14 [6]
11. W12X19 [18]

PLAN NOTES:

1. ANY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY AND COORDINATE DIMENSIONS AND OTHER INFORMATION WITH DRAWINGS BY OTHERS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.
4. STEEL STAIRS TO BE DESIGNED AND DETAILED BY CONTRACTOR/STEEL FABRICATOR, SHOP DRAWINGS TO BE SUBMITTED TO OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL.
5. BEAM SIZE (#) DENOTES THE NUMBER OF 3/4" DIA SHEAR STUDS DISTRIBUTED EVENLY ALONG THE BEAM SPAN, SEE 7/S3.0 FOR ADDITIONAL INFORMATION

2 GROUND FLOOR PLAN - COTTAGE 5/6

SCALE: 1/4" = 1'-0"
0 1 2 4 8 FEET
REFERENCE ACTUAL



KEYNOTES:

1. 5" CONCRETE SLAB ON GRADE w/ #4 @ 12" O.C. EACH WAY AT CENTER LINE OF SLAB
2. 10" CONCRETE WALL, TYP AT PERIMETER U.O.N.
3. 8" CONCRETE WALL, TYP ON INTERIOR
4. 2'-6" CONCRETE STRIP FOOTING CENTERED ON WALL, TYP AT PERIMETER
5. 2'-0" CONCRETE STRIP FOOTING
6. HSS4X4X1/4 CONCRETE PAD FOOTING, SEE 5/S3.0 SIM

PLAN NOTES:

1. ANY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY AND COORDINATE DIMENSIONS AND OTHER INFORMATION WITH DRAWINGS BY OTHERS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.

1 BASEMENT/FOUNDATION PLAN - COTTAGE 5/6

SCALE: 1/4" = 1'-0"
0 1 2 4 8 FEET
REFERENCE ACTUAL

DECEMBER 1, 2017

MJ structural engineers
7710 Balboa Ave. Suite 206-C
San Diego, CA 92111
Phone: 858.442.7771
Fax: 619.996.2682
MJSE Project #15047

HERITAGE ARCHITECTURE & PLANNING
833 FIFTH AVENUE SAN DIEGO, CALIFORNIA 92101

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

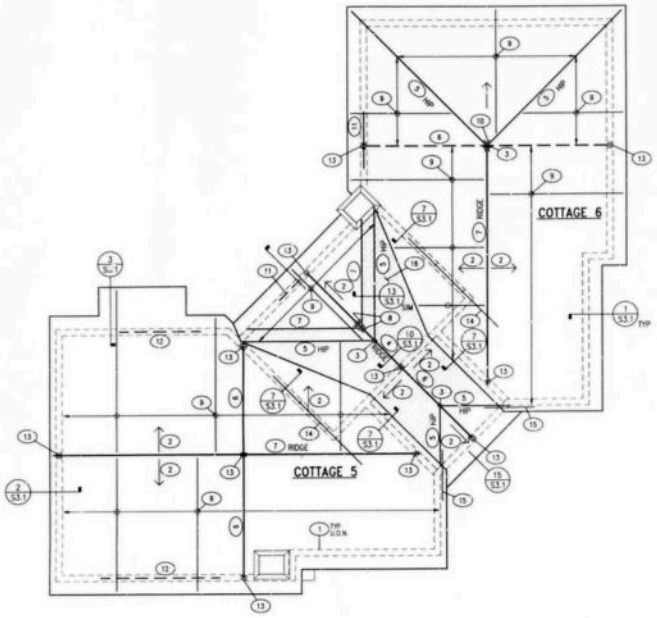
(A PORTION OF BALBOA PARK)

SHEET TITLE: COTTAGE 5/6- BASEMENT/FOUNDATION PLAN & GROUND FLOOR FRAMING PLAN

SHEET NUMBER: S2.3A

LAMBERT COORDINATES 204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

06 BY: COLUMBIA RIVER CADD 15-067-15047 #03 S. #01 ST #18 NUMBER PLOT 28 STAMP



KEYNOTES:

1. GROUND FLOOR WALL BELOW, SEE S2.3B
2. INDICATES DIRECTION OF ROOF SLOPE
3. 4x4 POST BELOW, SEE 2/S1.5
4. 4x10 ABOVE
5. 4x12 HIP/VALLEY
6. 5 1/8x16 1/2 GLB C = 3/4"
7. 3 1/2x16 1/2 GLB C = 3/4"
8. SIMPSON "HGUS414" HANGER, SKEWED AS REQUIRED
9. 2x8 @ 24" O.C.
10. SIMPSON "HHIPC44" RIDGE TO HIP HANGER
11. 6x12 HEADER
12. 4x12 HEADER
13. 4x6 POST BELOW, SEE 2/S1.5
14. SIMPSON "CS14"x10'-0" OVER PLYWOOD TO BLKG
15. SIMPSON "MST48" STRAP
16. SHADED REGION INDICATES AREA OF CALIFORNIA INFILL FRAMING

PLAN NOTES:

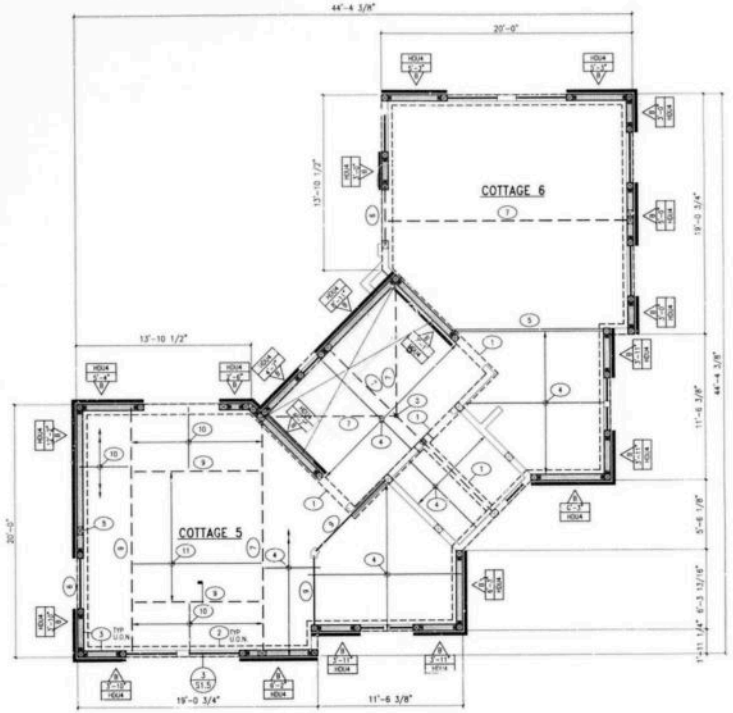
1. ANY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY AND COORDINATE DIMENSIONS AND OTHER INFORMATION WITH DRAWINGS BY OTHERS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.
4. ROOF SHEATHING TO BE 1/2" PLYWOOD (STRUCT 1) WITH 10d @ 6" O.C. EDGE NAILING & 10d @ 12" O.C. FIELD NAILING.
5. STARTER BOARDS SHALL BE 1x TONGUE & GROOVE w/ 2-10d NAILS PER SUPPORT, APPEARANCE PER ARCHITECT.

2 ROOF FRAMING PLAN - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL



KEYNOTES:

1. 8" CONCRETE WALL BELOW, SEE S2.3A
2. 10" CONCRETE WALL BELOW, SEE S2.3A
3. STUD WALL PER 2/S2.3A
4. 2x8 CEILING JOISTS @ 16" O.C.
5. 2-2x8 CEILING JOISTS
6. 4x12 BEAM
7. BEAM ABOVE PER 2/-
8. POST ABOVE PER 2/-
9. 3 1/2x12 GLB
10. 2x4 @ 24" O.C.
11. 2x4 @ 12" O.C.

PLAN NOTES:

1. ANY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY AND COORDINATE DIMENSIONS AND OTHER INFORMATION WITH DRAWINGS BY OTHERS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.

1 GROUND FLOOR SHEAR WALLS/ CEILING FRAMING PLAN - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

MJ structural engineers
7710 Balboa Ave, Suite 206-C
San Diego, CA 92111
Phone: 858.442.7771
Fax: 619.996.2062
MJSE Project #1504-7

HERITAGE ARCHITECTURE & PLANNING
825 FIFTH AVENUE
SAN DIEGO, CALIFORNIA 92101

DECEMBER 1, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

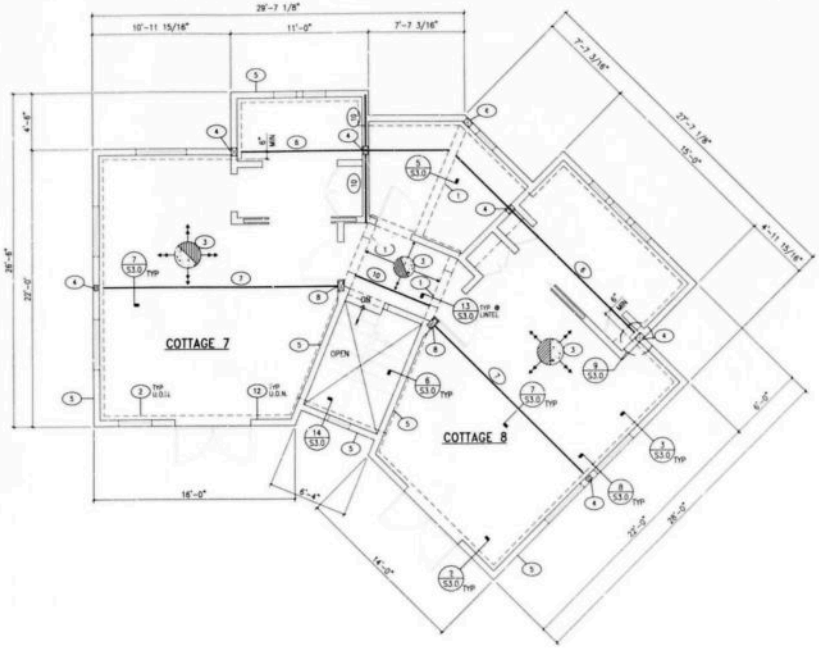
(A PORTION OF BALBOA PARK)

SHEET TITLE: COTTAGE 5/6- GROUND FLOOR PLAN & ROOF FRAMING PLAN

SHEET NUMBER: S2.3B

LAMBERT COORDINATES 204-1721 THOMAS BROTHERS PAGE: 60, D-6

(PSD #)



KEYNOTES:

1. 8" CONCRETE WALL BELOW, SEE 1/-
2. 10" CONCRETE WALL BELOW, SEE 1/-
3. 2" NWC FILL OVER 3"x16 GA VERCO W3 METAL DECK (3" TOTAL DEPTH, 2-SPAN MIN)
4. 4x6 POST
5. 2x6 STUDS @ 16" O.C., TYP U.O.N. (CONT FULL-HT TO ROOF FRAMING)
6. W12X22 [20]
7. W12X19 [18]
8. 4x8 POST
9. HSS4X4X1/4
10. W12X14 [6]
11. W12X19 [18]
12. 2x4 STUDS @ 16" O.C., TYP U.O.N.

PLAN NOTES:

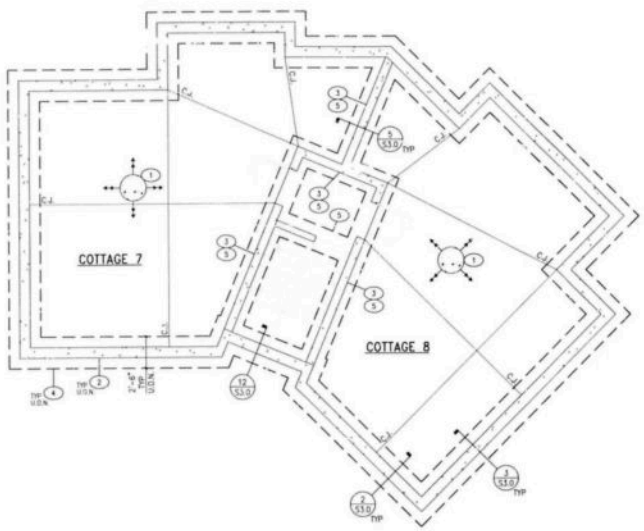
1. ANY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY AND COORDINATE DIMENSIONS AND OTHER INFORMATION WITH DRAWINGS BY OTHERS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.
4. STEEL STAIRS TO BE DESIGNED AND DETAILED BY CONTRACTOR/STEEL FABRICATOR. SHOP DRAWINGS TO BE SUBMITTED TO OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL.
5. BEAM SIZE (#) DENOTES THE NUMBER OF 3/4" DIA SHEAR STUDS DISTRIBUTED EVENLY ALONG THE BEAM SPAN, SEE 7/S3.0 FOR ADDITIONAL INFORMATION

2 GROUND FLOOR FRAMING PLAN - COTTAGE 7/8

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL



KEYNOTES:

1. 5" CONCRETE SLAB ON GRADE w/ #4 @ 12" O.C. EACH WAY AT CENTER LINE OF SLAB
2. 10" CONCRETE WALL, TYP AT PERIMETER
3. 8" CONCRETE WALL, TYP ON INTERIOR
4. 2'-6" CONCRETE STRIP FOOTING CENTERED ON WALL, TYP AT PERIMETER
5. 2'-0" CONCRETE STRIP FOOTING, SEE 5/S3.0 SIM

PLAN NOTES:

1. ANY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS.
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3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.

1 BASEMENT/FOUNDATION PLAN - COTTAGE 7/8

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

MJ structural engineers
7710 Balboa Ave. Suite 206-C
San Diego, CA 92111
Phone: 858.442.7771
Fax: 619.996.2082
MJSE Project #15047

HERITAGE ARCHITECTURE & PLANNING
825 FIFTH AVENUE
SAN DIEGO, CALIFORNIA 92101

DECEMBER 1, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

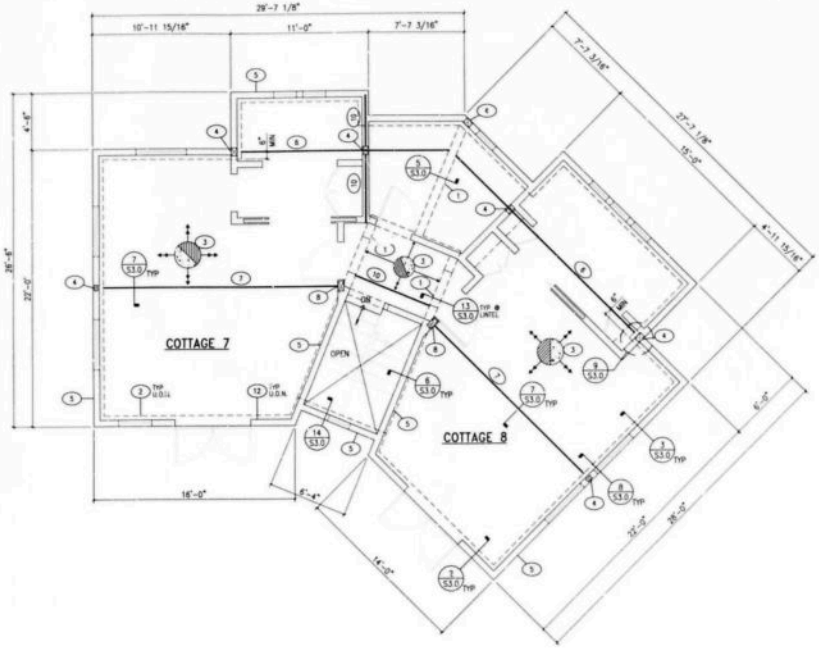
SHEET TITLE: COTTAGE 7/8- BASEMENT/FOUNDATION PLAN & GROUND FLOOR FRAMING PLAN

SHEET NUMBER: S2.4A

LAMBERT COORDINATES 204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)



KEYNOTES:

1. 8" CONCRETE WALL BELOW, SEE 1/-
2. 10" CONCRETE WALL BELOW, SEE 1/-
3. 2" NWC FILL OVER 3"x16 GA VERCO W3 METAL DECK (3" TOTAL DEPTH, 2-SPAN MIN)
4. 4x6 POST
5. 2x6 STUDS @ 16" O.C., TYP U.O.N. (CONT FULL-HT TO ROOF FRAMING)
6. W12X22 [20]
7. W12X19 [18]
8. 4x8 POST
9. HSS4X4X1/4
10. W12X14 [6]
11. W12X19 [18]
12. 2x4 STUDS @ 16" O.C., TYP U.O.N.

PLAN NOTES:

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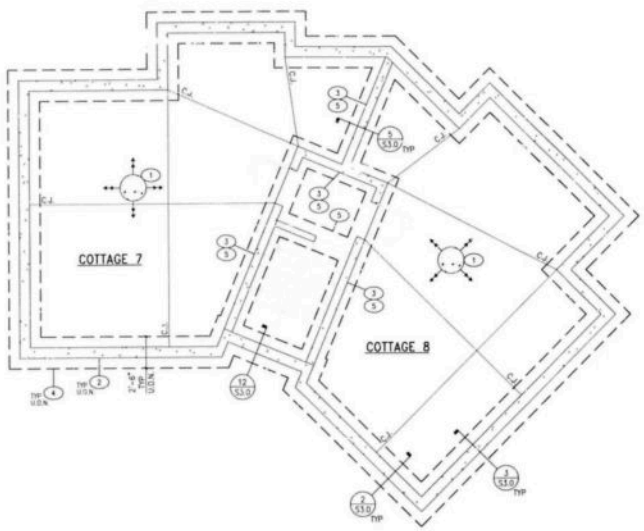
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.
4. STEEL STAIRS TO BE DESIGNED AND DETAILED BY CONTRACTOR/STEEL FABRICATOR. SHOP DRAWINGS TO BE SUBMITTED TO OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL.
5. BEAM SIZE (#) DENOTES THE NUMBER OF 3/4" DIA SHEAR STUDS DISTRIBUTED EVENLY ALONG THE BEAM SPAN, SEE 7/S3.0 FOR ADDITIONAL INFORMATION

2 GROUND FLOOR FRAMING PLAN - COTTAGE 7/8

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL



KEYNOTES:

1. 5" CONCRETE SLAB ON GRADE w/ #4 @ 12" O.C. EACH WAY AT CENTER LINE OF SLAB
2. 10" CONCRETE WALL, TYP AT PERIMETER
3. 8" CONCRETE WALL, TYP ON INTERIOR
4. 2'-6" CONCRETE STRIP FOOTING CENTERED ON WALL, TYP AT PERIMETER
5. 2'-0" CONCRETE STRIP FOOTING, SEE 5/S3.0 SIM

PLAN NOTES:

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3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.

1 BASEMENT/FOUNDATION PLAN - COTTAGE 7/8

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

MJ structural engineers
7710 Balboa Ave. Suite 206-C
San Diego, CA 92111
Phone: 858.442.7771
Fax: 619.996.2082
MJSE Project #15047

HERITAGE ARCHITECTURE & PLANNING
825 FIFTH AVENUE
SAN DIEGO, CALIFORNIA 92101

DECEMBER 1, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

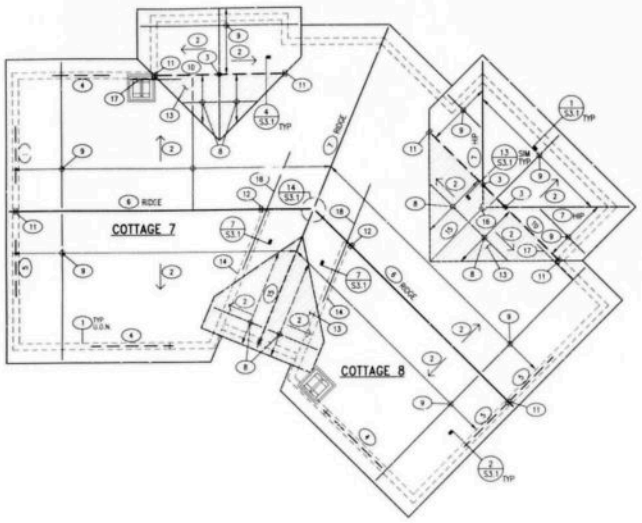
SHEET TITLE: COTTAGE 7/8- BASEMENT/FOUNDATION PLAN & GROUND FLOOR FRAMING PLAN

SHEET NUMBER: S2.4A

LAMBERT COORDINATES 204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)



KEYNOTES:

1. GROUND FLOOR WALL BELOW, SEE 2/S2.4A
2. INDICATES DIRECTION OF ROOF SLOPE
3. 4x4 POST BELOW, SEE 2/S1.5
4. 4x8 HEADER
5. 6x6 HEADER
6. 3 1/2x16 1/2 GLB C = 3/4"
7. 4x10 HIP/VALLEY
8. 2x6 @ 24" O.C.
9. 2x8 @ 24" O.C.
10. 3 1/2x12 GLB C = 1/2"
11. 4x6 POST BELOW, SEE 2/S1.5
12. 4x8 POST BELOW, SEE 2/S1.5
13. SHADED REGION INDICATES AREA OF CALIFORNIA INFILL FRAMING
14. SHEAR WALL BELOW
15. 2x8 RIDGE
16. SIMPSON 'LSI90' EACH SIDE
17. SIMPSON 'MST48' STRAP
18. SIMPSON 'CS14'x10'-0" OVER PLYWOOD TO BLKG

PLAN NOTES:

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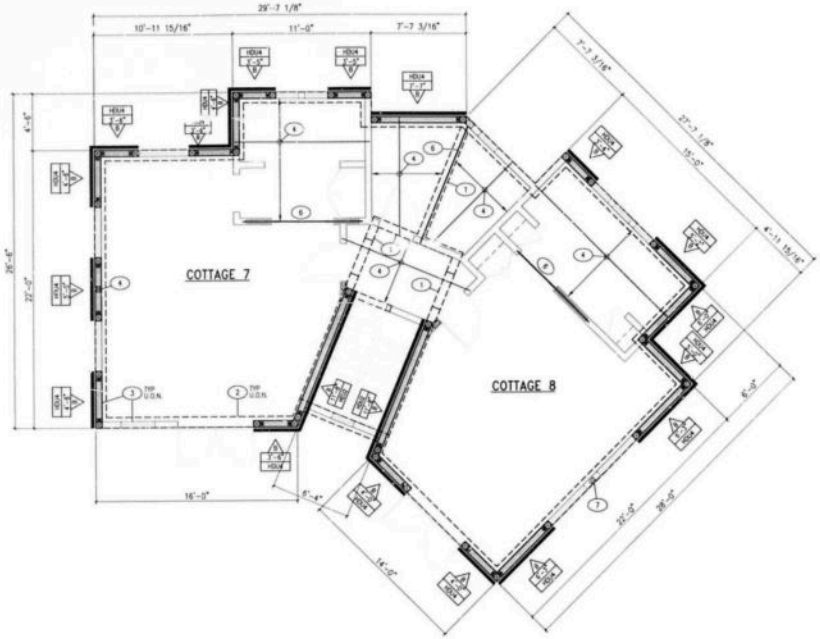
2. FIELD VERIFY AND COORDINATE DIMENSIONS AND OTHER INFORMATION WITH DRAWINGS BY OTHERS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.
4. ROOF SHEATHING TO BE 1/2" PLYWOOD (STRUCT 1) WITH 10d @ 6" O.C. EDGE NAILING & 10d @ 12" O.C. FIELD NAILING.
5. STARTER BOARDS SHALL BE 1x TONGUE & GROOVE w/ 2-10d NAILS PER SUPPORT, APPEARANCE PER ARCHITECT.

2 ROOF FRAMING PLAN - COTTAGE 7/8

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL



KEYNOTES:

1. 8" CONCRETE WALL BELOW, SEE S2.4A
2. 10" CONCRETE WALL BELOW, SEE S2.4A
3. STUD WALL PER 2/S2.4A
4. 2x8 CEILING JOISTS @ 16" O.C., USE SIMPSON 'LS70' WHERE JOISTS ATTACH TO SKEWED BEAM
5. 2-2x8 CEILING JOISTS
6. 4x8 BEAM
7. POST PER 2/S2.4A, TYP

PLAN NOTES:

1. ANY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY AND COORDINATE DIMENSIONS AND OTHER INFORMATION WITH DRAWINGS BY OTHERS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.
4. ALL GABLE WALLS TO BE 2x6 STUDS @ 16" O.C., ALL OTHER WALLS TO BE 2x4 STUDS @ 16" O.C., U.O.N.

1 GROUND FLOOR SHEAR WALLS/ CEILING FRAMING PLAN - COTTAGE 7/8

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

DEC 2017

DECEMBER 1, 2017

MJ structural engineers
7710 Balboa Ave, Suite 206-C
San Diego, CA 92111
Phone: 858.442.7771
Fax: 619.996.2082
MJSE Project #15047

HERITAGE ARCHITECTURE & PLANNING 833 FIFTH AVENUE SAN DIEGO, CALIFORNIA 92101

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: COTTAGE 7/8- GROUND FLOOR PLAN & ROOF FRAMING PLAN

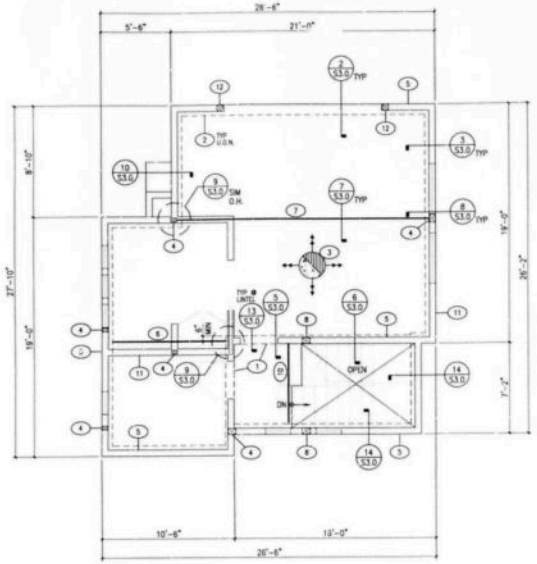
SHEET NUMBER: S2.4B

LAMBERT COORDINATES 204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

W:\P- COLUMBIA RIVER CADD 15-067-15047 BIDS 1_CD-1\P #2 HARDY PLAN_S2.4B.DWG



KEYNOTES:

1. 8" CONCRETE WALL BELOW, SEE 1/-
2. 10" CONCRETE WALL BELOW, SEE 1/-
3. 2" NWC FILL OVER 3"x16 GA VERCO W3 METAL DECK (5" TOTAL DEPTH, 2-SPAN MIN)
4. 4x6 POST
5. 2x6 STUDS @ 16" O.C., TYP U.O.N. (CONT FULL-HT TO ROOF FRAMING)
6. W12X14 [6]
7. W12X19 [18]
8. 6x8 POST
9. NOT USED
10. W12X14 [6]
11. 2x4 STUDS @ 16" O.C., TYP U.O.N.
12. 6x6 POST (FULL HEIGHT) w/ 4x6 JAMB STUD BELOW HEADER, ATTACH JAMB STUD TO HEAD w/ 5/8"ø M.B. @ 12" O.C. OVER HEIGHT

PLAN NOTES:

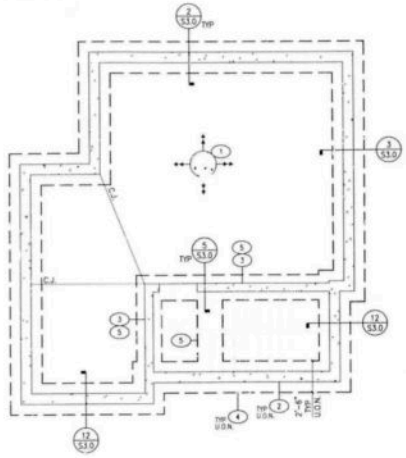
1. ANY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY AND COORDINATE DIMENSIONS AND OTHER INFORMATION WITH DRAWINGS BY OTHERS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.
4. STEEL STAIRS TO BE DESIGNED AND DETAILED BY CONTRACTOR/STEEL FABRICATOR, SHOP DRAWINGS TO BE SUBMITTED TO OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL.
5. BEAM SIZE [#] DENOTES THE NUMBER OF 3/4" DIA SHEAR STUDS DISTRIBUTED EVENLY ALONG THE BEAM SPAN, SEE 7/S3.0 FOR ADDITIONAL INFORMATION.

2 GROUND FLOOR FRAMING PLAN - COTTAGE 9

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL



KEYNOTES:

1. 5" CONCRETE SLAB ON GRADE w/ #4 @ 12" O.C. EACH WAY AT CENTER LINE OF SLAB
2. 10" CONCRETE WALL, TYP AT PERIMETER
3. 8" CONCRETE WALL, TYP ON INTERIOR
4. 2'-6" CONCRETE STRIP FOOTING CENTERED ON WALL, TYP AT PERIMETER
5. 2'-0" CONCRETE STRIP FOOTING, SEE 5/S3.0 SIM

PLAN NOTES:

1. ANY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY AND COORDINATE DIMENSIONS AND OTHER INFORMATION WITH DRAWINGS BY OTHERS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.

1 BASEMENT/FOUNDATION PLAN - COTTAGE 9

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

DEC 2017

MJ structural engineers
7710 Balboa Ave, Suite 206-C
San Diego, CA 92111
Phone: 858.442.7771
Fax: 619.996.2082
MJSE Project #15047

HERITAGE ARCHITECTURE & PLANNING 835 FIFTH AVENUE SAN DIEGO, CALIFORNIA 92101

DECEMBER 1, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

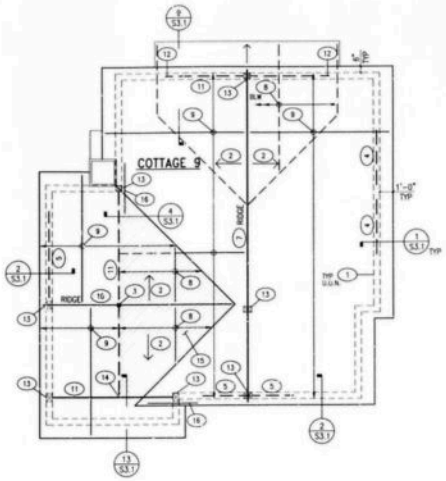
SHEET TITLE: COTTAGE 9- BASEMENT/FOUNDATION PLAN & GROUND FLOOR FRAMING PLAN

SHEET NUMBER: S2.5A

LAMBERT COORDINATES 204-1721

THOMAS BROTHERS PAGE 60, D-6

(PSD #)



KEYNOTES:

1. GROUND FLOOR WALL BELOW, SEE S2.5B
2. INDICATES DIRECTION OF ROOF SLOPE
3. 4x4 POST BELOW, SEE 2/S1.5
4. 4x8 HEADER
5. 6x6 HEADER
6. NOT USED
7. 3 1/2x16 1/2 GLB
8. 2x6 @ 24" o.c.
9. 2x8 @ 24" O.C.
10. 4x10
11. 5 1/8x12 GLB
12. SIMPSON "ECCU5 1/4-4" POST CAP BETWEEN HEADER AND JAMB STUD
13. 6x6 POST BELOW w/ SIMPSON "CC46" TO RIDGE AND "CC5 1/4-6" TO HEADER
14. SIMPSON "HGUS5.25/12" BEAM HANGER
15. SHADED REGION INDICATES AREA OF CALIFORNIA INFILL FRAMING
16. SIMPSON "MST48" STRAP

PLAN NOTES:

1. ANY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY AND COORDINATE DIMENSIONS AND OTHER INFORMATION WITH DRAWINGS BY OTHERS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.
4. ROOF SHEATHING TO BE 1/2" PLYWOOD (STRUCT 1) WITH 10d @ 6" O.C. EDGE NAILING & 10d @ 12" O.C. FIELD NAILING.
5. STARTER BOARDS SHALL BE 1x TONGUE & GROOVE w/ 2-10d NAILS PER SUPPORT, APPEARANCE PER ARCHITECT.

2 ROOF FRAMING PLAN - COTTAGE 9

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

KEYNOTES:

1. 8" CONCRETE WALL BELOW, SEE S2.5A
2. 10" CONCRETE WALL BELOW, SEE S2.5A
3. STUD WALL PER 2/S2.5A
4. 2x8 CEILING JOISTS @ 16" O.C.
5. 2-2x8 CEILING JOISTS
6. 4x8 BEAM
7. POST PER 2/S2.5A, TYP
8. BEAM ABOVE PER 2/-

PLAN NOTES:

1. ANY DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR TO VERIFY WITH ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY AND COORDINATE DIMENSIONS AND OTHER INFORMATION WITH DRAWINGS BY OTHERS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES PRIOR TO CONSTRUCTION.
3. SEE S1 SERIES (TYPICAL DETAILS) SHEETS FOR DETAILS THAT ARE NOT SPECIFICALLY REFERENCED ON THE PLANS.
4. ALL GABLE WALLS TO BE 2xG STUDS @ 16" O.C., ALL OTHER WALLS TO BE 2x4 STUDS @ 16" O.C., U.O.N.

1 GROUND FLOOR/CEILING FRAMING PLAN - COTTAGE 9

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE ACTUAL

MJ structural engineers
7710 Balboa Ave. Suite 206-C
San Diego, CA 92111
Phone: 858.442.7771
Fax: 619.996.2082
MJSE Project #15047

HERITAGE ARCHITECTURE & PLANNING 835 FIFTH AVENUE SAN DIEGO, CALIFORNIA 92101

DECEMBER 1, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

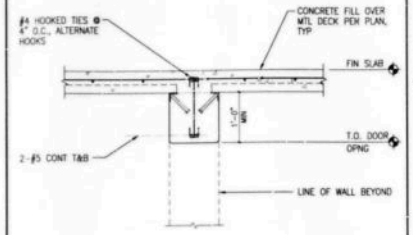
SHEET TITLE: COTTAGE 9- GROUND FLOOR PLAN & ROOF FRAMING PLAN

SHEET NUMBER: S2.5B

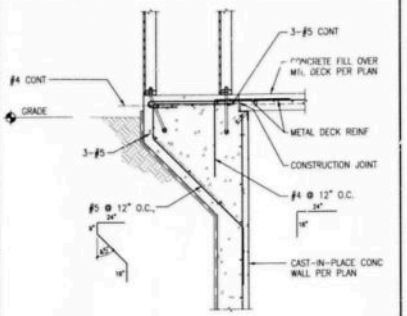
LAMBERT COORDINATES 204-1721

THOMAS BROTHERS PAGE 60, D-6

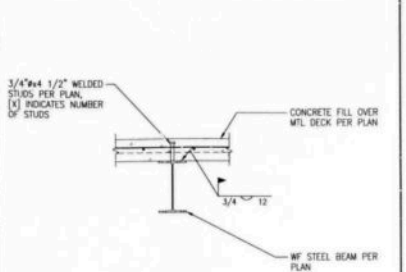
(PSD #)



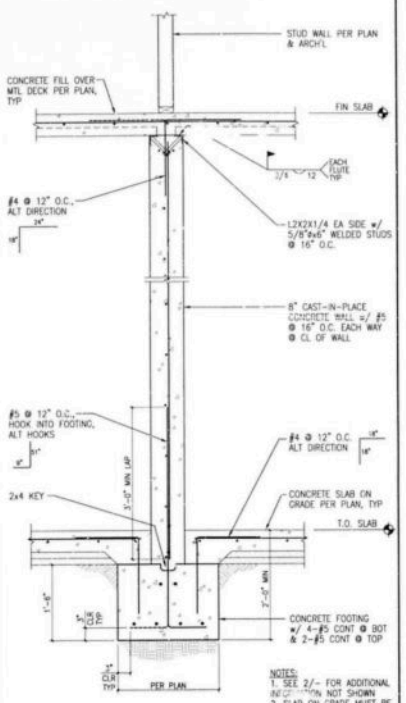
13 LINTEL ABOVE DOORWAY IN CONCRETE WALL
N.T.S.



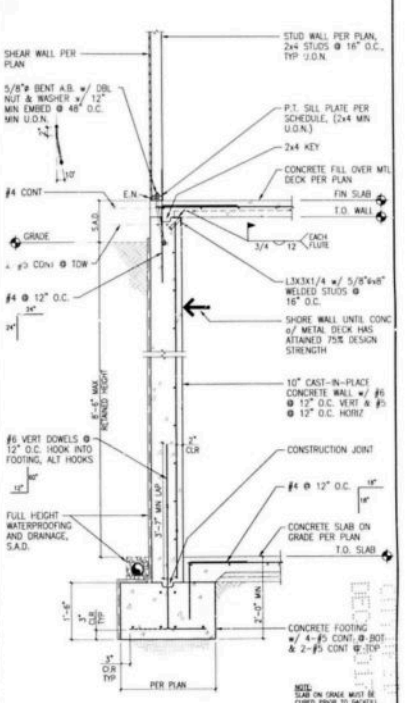
10 CONCRETE WALL SUPPORT AT CHIMNEY
3/4"=1'-0"



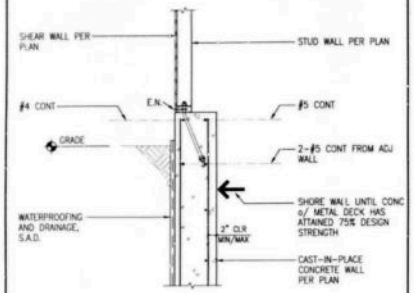
7 SECTION AT WF FLOOR BEAM
1"=1'-0"



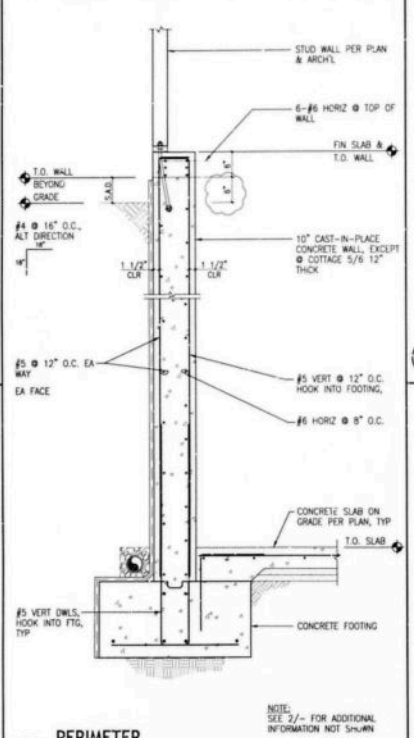
5 INTERIOR CONCRETE BASEMENT WALL AND FOOTING
1"=1'-0"



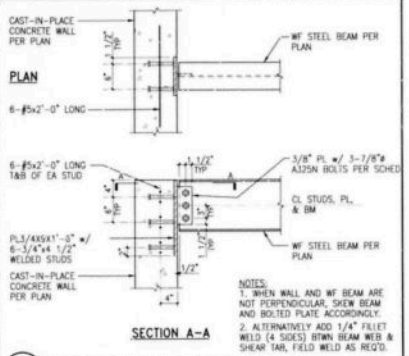
2 PERIMETER BASEMENT WALL
3/4"=1'-0"



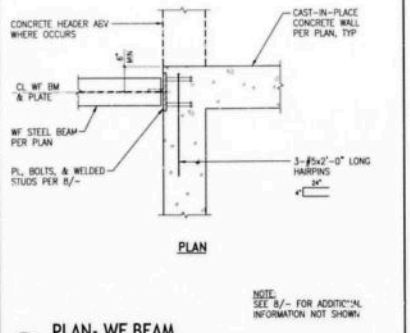
14 PERIMETER CONCRETE WALL AT STAIRS
1"=1'-0"



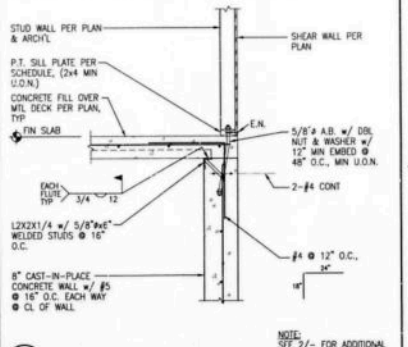
12 PERIMETER BASEMENT WALL AT STAIRS
N.T.S.



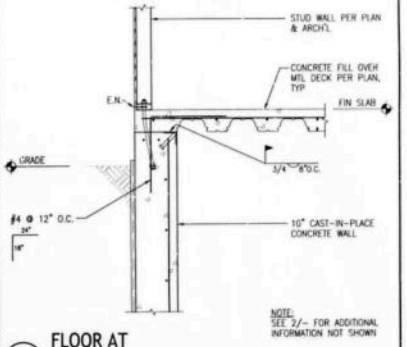
8 STEEL BEAM AND PLATE AT WALL
1"=1'-0"



9 PLAN- WF BEAM TO CONCRETE WALL CONNECTION
1"=1'-0"



6 INTERIOR WALL AT STAIRS
1"=1'-0"



NOTE: SEE 2/– FOR ADDITIONAL INFORMATION NOT SHOWN

3 FLOOR AT PERIMETER WALL PARALLEL TO DECK
1"=1'-0"

MJ structural engineers
7710 Balboa Ave, Suite 206-C
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MJSE Proje.t #15047

HERITAGE ARCHITECTURE & PLANNING

DECEMBER 1, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

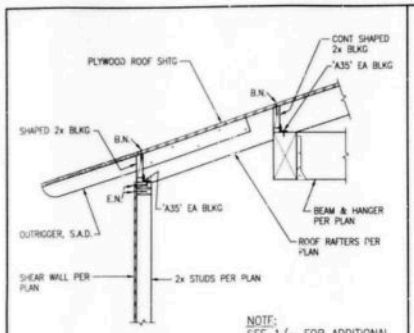
INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

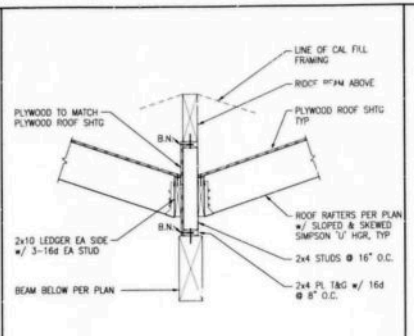
SHEET TITLE: SECTIONS AND DETAILS

SHEET NUMBER: S3.0

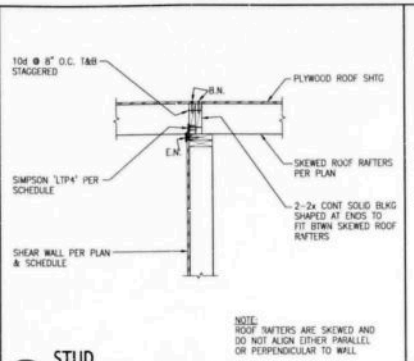
LAMBERT COORDINATES 204-1721 THOMAS BROTHERS PAGE: 60. D-6 (PSD #)



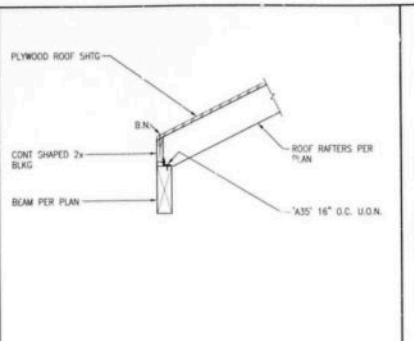
13 ROOF JOIST AT BEAM AND WALL
N.T.S.



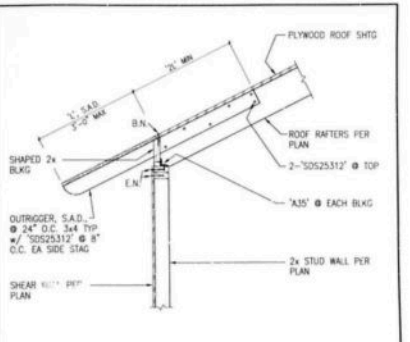
10 VALLEY UNDER CAL FILL AND RIDGE
N.T.S.



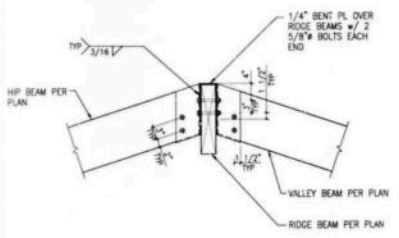
7 STUD WALL AT SKEWED ROOF RAFTERS
N.T.S.



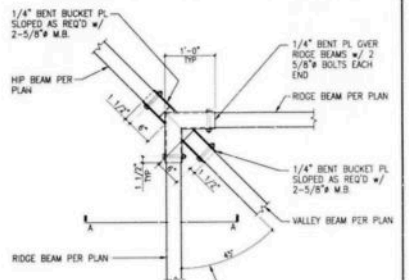
4 ROOF AT INTERIOR BEAM
1"=1'-0"



1 ROOF PERPENDICULAR TO WALL
1"=1'-0"

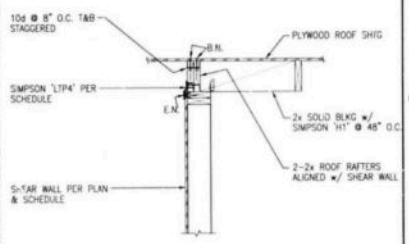


SECTION A-A

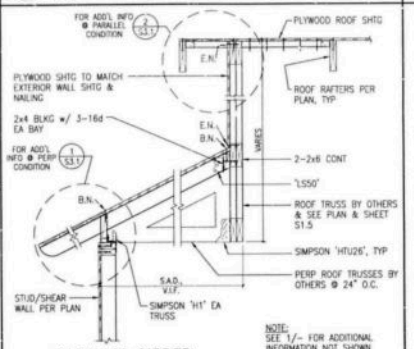


PLAN

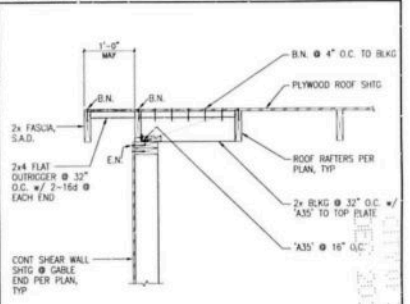
14 RIDGES AT VALLEY AND HIP
N.T.S.



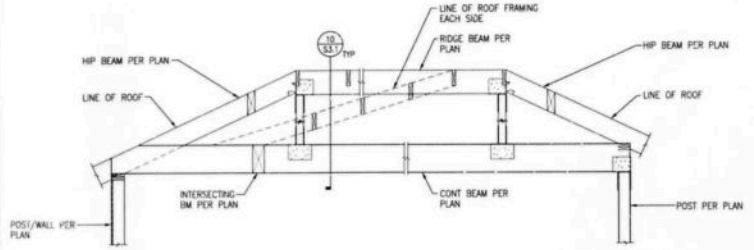
8 ROOF RAFTERS PARALLEL TO STUD WALL
N.T.S.



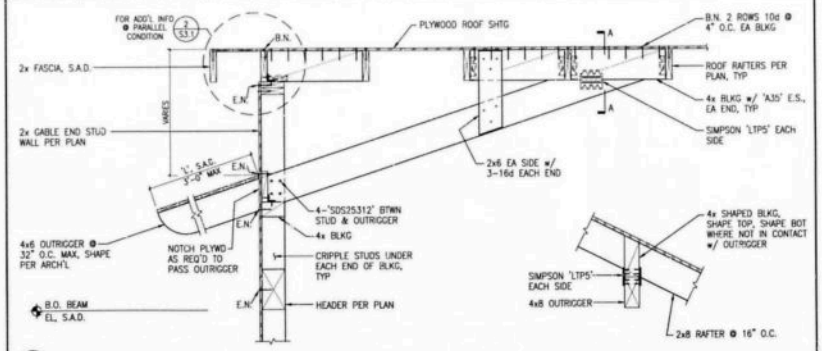
5 PARALLEL GIRDER TRUSS ADJACENT TO EXT WALL
1"=1'-0"



2 SECTION AT GABLE END WALL
1"=1'-0"

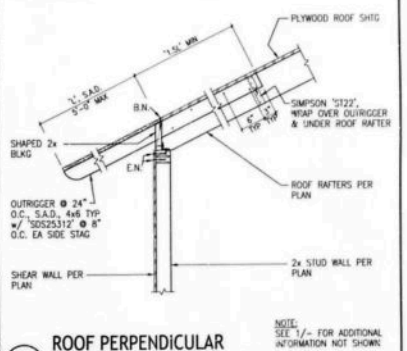


15 SECTION AT CENTRAL BEAM
N.T.S.



9 PORCH ROOF AT GABLE END WALL
1"=1'-0"

SECTION A-A



NOTE:
SEE 1/- FOR ADDITIONAL INFORMATION NOT SHOWN

3 ROOF PERPENDICULAR TO WALL AT ENTRY PORCH
1"=1'-0"

MJ structural engineers
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Fax: 619.996.2080
MJSE Project #1504.7

HERITAGE ARCHITECTURE & PLANNING
825 FIFTH AVENUE SAN DIEGO, CALIFORNIA 92101

DECEMBER 1, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: SECTIONS AND DETAILS

SHEET NUMBER: S3.1

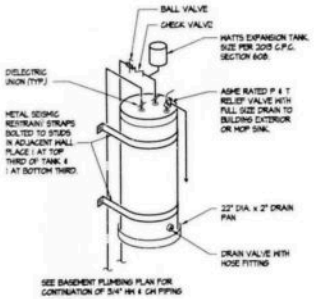
LAMBERT COORDINATES 204-1721

THOMAS BROTHERS PAGE 60, D-6

(PSD #)

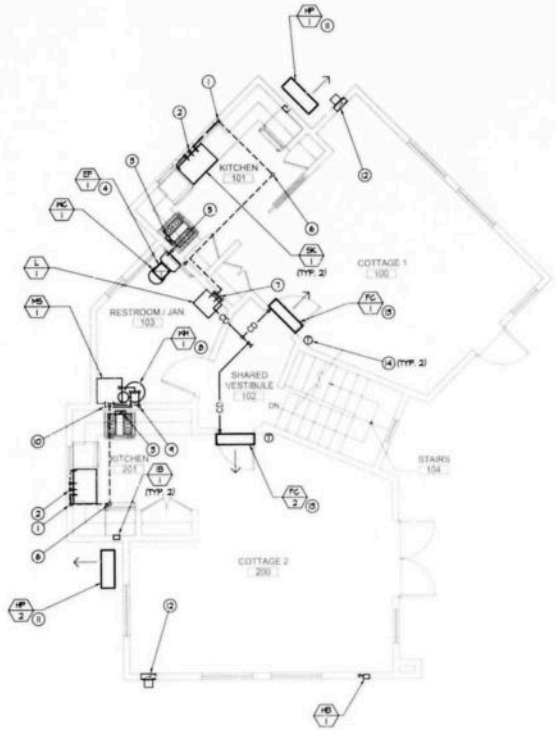
PLUMBING SYMBOL LEGEND

SYMBOL	ABBREV.	DESCRIPTION
— — — —	W	WASTE PIPING BELOW FLOOR OR GRADE
———	W	WASTE PIPING ABOVE FLOOR
— — XW — —	XW	EXISTING WASTE PIPING BELOW GRADE
— — — — —	V	VENT
—— ——	CW	COLD WATER
—— ——	XCW	EXISTING COLD WATER
—— ——	HW	HOT WATER
——G——	G	LOW PRESSURE NATURAL GAS
— — XG — —	XG	EXISTING NATURAL GAS
⋈	S.O.V.	SHUT-OFF VALVE
⊬	C.K.V.	CHECK VALVE
Ø	G.C.O.	CLEANOUT AT GRADE
Ø	F.C.O.	FLOOR CLEANOUT
⊣	W.C.O.	WALL CLEANOUT
⚡	V.T.R.	VENT THRU ROOF
	I.E.	INVERT ELEVATION
	A.F.F.	ABOVE FINISHED FLOOR
	B.F.F.	BELOW FINISHED FLOOR



WATER HEATER DETAIL

NO SCALE

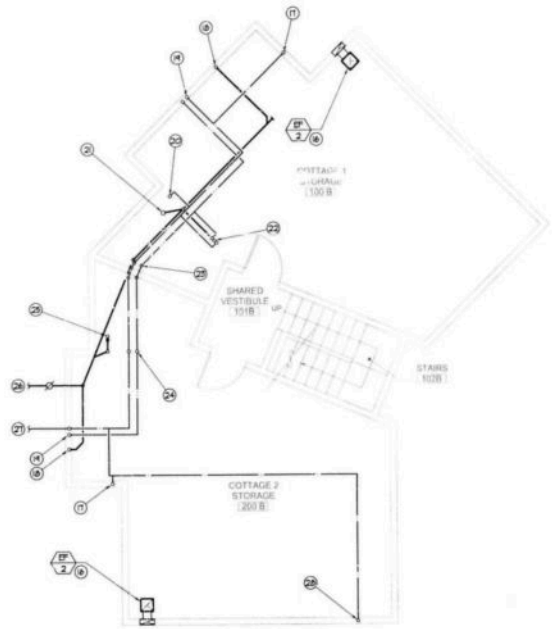


GROUND FLOOR MECHANICAL & PLUMBING PLAN - COTTAGE 1/2

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE



BASEMENT MECHANICAL & PLUMBING PLAN - COTTAGE 1/2

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE

KEY NOTES

1. RUN 1-1/2" VENT UP IN WALL TO ABOVE CEILING. DROP 2" WASTE TO BELOW.
2. STUB OUT 1/2" HW & CW TO SINK. RUN 1/2" HW IN WALL TO DISHWASHER W/VALVE ACCESSIBLE UNDER SINK.
3. RUN 10/5.25 E.A. DUCT FROM HOOD UP IN CABINET ABOVE THRU ROOF TO CAP.
4. MOUNT SECURELY TO STRUCTURE WITH GRILLE IN CEILING PER MANUF. RECOMMENDATIONS. RUN 8/8 E.A. DUCT UP THRU ROOF TO CAP.
5. STUB OUT 1/2" CW TO WATER CLOSET.
6. RUN 3" VENT UP THRU ROOF.
7. STUB OUT 1/2" HW & CW TO LAV. RUN 1-1/2" VENT UP IN WALL TO ABV. CEILING. DROP 1-1/2" WASTE TO BELOW. DROP INSULATED 3/4" CONDENSATE DRAIN IN WALL & STUB OUT TO TAILPIECE FITTING AT LAV.
8. SET IN DRAIN PAN & STRAP TO WALL PER DETAIL, THIS SHEET.
9. DROP 3/4" HW IN WALL TO BELOW. RUN 3/4" CW FROM BELOW UP & OUT OF WALL TO WATER HEATER WITH FULL PORT BALL VALVE & CHECK VALVE. SEE DETAIL.
10. RUN 1/2" HW & CW TO MOP SINK FAUCET. RUN 2" VENT UP IN WALL TO ABOVE CEILING. DROP 2" WASTE.
11. MOUNT TO LEVELED 4" CONCRETE PAD PER DETAIL 1, SHT. MP1.2. CONNECT REFRIGERANT PIPING FROM ASSOCIATED WALL CONSOLE.
12. RUN 14/5 E.A. DUCT FROM BELOW TO WALL CAP AT 12" ABV. GRADE, MINIMUM 36" FROM OPERABLE WINDOW.
13. MOUNT TO WALL WITH FACTORY MOUNTING PLATE PER MANUF. RECOMMENDATIONS. BOTTOM AT 7'-4" A.F.F. RUN INSULATED REFRIGERANT LINES TO ASSOC. OUTDOOR UNIT. CONNECT 3/4" INSULATED CONDENSATE DRAIN TO PUMP & RUN UP WALL TO ABOVE CEILING. DROP INTO TOP OF 3/4" INSULATED GRAVITY DRAIN & RUN TO WALL.
14. MOUNT WALL CONSOLE CONTROLLER TO WALL AT 48" A.F.F.
15. NOT USED.
16. MOUNT SECURELY TO FLOOR STRUCTURE ABOVE PER MANUF. RECOMMENDATIONS. RUN 8/8 E.A. DUCT TO 14/5 RISER IN WALL.
17. RUN 1/2" CW UP TO ICEMAKER VALVE BOX ABOVE.
18. 2" WASTE FROM ABOVE.
19. RUN 1/2" HW & CW UP IN WALL ABOVE.
20. RUN 1/2" CW UP TO WATER CLOSET ABOVE.
21. 4" CLOSET BEND FOR WATER CLOSET ABOVE.
22. RUN 1/2" HW & CW UP TO LAV. 2" W FROM ABOVE.
23. RUN 4" WASTE, 1" CW & 3/4" HW THRU WALL.
24. RUN 3/4" CW UP IN WALL. 3/4" HW FROM ABOVE.
25. 3" WASTE W/TRAP FROM MOP SINK ABOVE.
26. SEE CIVIL PLANS FOR CONTINUATION OF 4" WASTE BELOW GRADE.
27. SEE CIVIL PLANS FOR ORIG'N OF 1-1/4" CW BELOW GRADE.
28. RUN 3/4" CW UP INTO WALL TO WALL HYDRANT ABOVE.

ENGINEERED SYSTEMS
Consulting Engineers

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APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

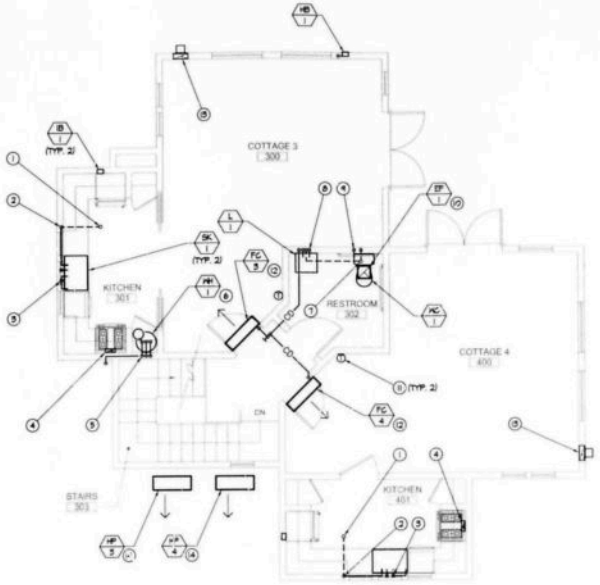
SHEET TITLE: MECHANICAL & PLUMBING PLANS - COTTAGE 1/2

SHEET NUMBER: MP1.1

LAMBERT COORDINATES:204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

PLUMBING GENERAL NOTES

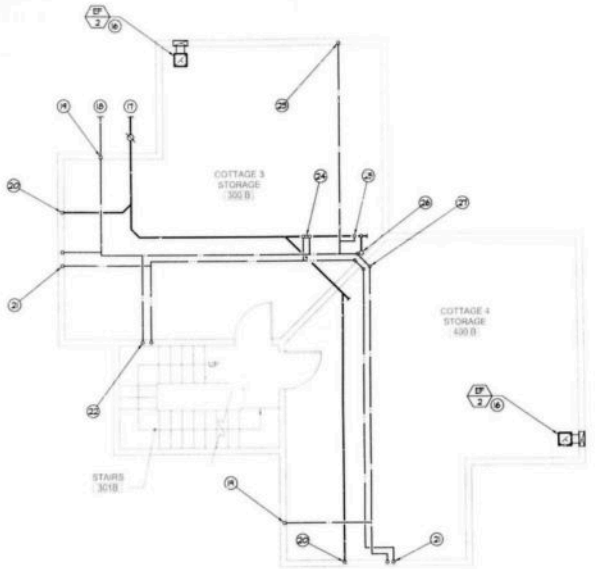
1. PLUMBING CONTRACTOR SHALL FURNISH ALL EQUIPMENT, MATERIALS, LABOR, ETC., WHETHER SHOWN ON THESE PLANS OR NOT, NECESSARY TO PROVIDE A COMPLETE, WORKABLE, CODE-APPROVED PLUMBING SYSTEM.
2. ALL WORK SHALL BE PERFORMED WITHE LATEST INDUSTRY ACCEPTED PRACTICES, CPC 2015 EDITION & ANY LOCAL ORDINANCES.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
4. PLUMBING CONTRACTOR TO COORDINATE ALL LINES & VENTS WITH ALL MECHANICAL EQUIPMENT. EACH PLUMBING VENT SHALL TERMINATE NOT LESS THAN 10 FT. FROM OR AT LEAST 3 FT. ABOVE ANY OPENING, AIR INTAKE OR VENT SHAFT.
5. ALL EXPOSED PLUMBING LINES MUST BE INSTALLED AT LEAST 6" OFF FLOOR & 1" AWAY FROM WALLS. AN EFFORT SHOULD BE MADE TO ENCLOSE ALL PLUMBING LINES WITHIN WALLS. WHERE THIS IS NOT POSSIBLE, MULTIPLE RUNS OR CLUSTERS OF PIPING SHOULD BE FURRED IN, ENCASED IN AN APPROVED RUNWAY OR OTHER APPROVED, SEALED ENCLOSURE.
6. WHERE PIPE LINES ENTER A WALL CEILING OR FLOOR, THE OPENING AROUND THE LINE SHALL BE TIGHTLY SEALED.
7. EXPOSED PIPE LINES SHALL NOT BE INSTALLED ACROSS ANY AISLE TRAFFIC AREA OR DOOR OPENING.
8. SLOPE ALL HORIZONTAL WASTE & VENT LINES A MINIMUM OF 1/4" PER FOOT. SLOPE CONDENSATE DRAIN LINES A MINIMUM OF 1/8" PER FOOT.
9. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED PER SECTIONS 707 & 708 OF PLUMBING CODE.
10. HORIZONTAL VENTS BELOW THE FLOOD RIM OF THE FIXTURE SHALL NOT BE ALLOWED FOR PLUMBING FIXTURES THAT ARE WITHIN TRAP ARM DISTANCE OF A WALL.
11. PROVIDE SHUT-OFF BALL VALVES ON ALL EQUIPMENT & STOP COCKS IN HOT & COLD WATER PIPING TO ALL PLUMBING FIXTURES. ALL BALL VALVES SHALL BE FULL PORT, APOLLO OR OTHER EQUAL OF DOMESTIC MAKE.
12. ALL KITCHEN EQUIPMENT FIXTURES SHALL BE PROVIDED BY THE OWNER. PLUMBING CONTRACTOR SHALL INSTALL ALL FIXTURES & PROVIDE P-TRAP, TAILPIECE & ALL NECESSARY TRIM & MAKE ALL FINAL CONNECTIONS.
13. SINK FAUCETS SHALL HAVE FLOW CONTROL DEVICES TO LIMIT FLOW TO A MAXIMUM OF 2.2 GPM.
14. LAVATORY FAUCETS TO BE SELF CLOSING WITEMPERATURE LIMIT STOP. ADJUST STOP TO LIMIT TEMPERATURE AT PUBLIC USE LAVATORIES TO MAX. 105°F. VALVES TO OPEN 10 SECONDS MINIMUM, 25 SECONDS MAXIMUM.
15. ALL HOT WATER PIPING SHALL BE INSULATED IN ACCORDANCE WITABLE 123-A, 2013 BUILDING ENERGY EFFICIENCY STANDARDS.
16. SERVICE WATER HEATING SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF ADJUSTMENT FROM THE LOWEST TO THE HIGHEST ACCEPTABLE TEMPERATURE SETTINGS FOR THE INTENDED USE. (SEC 15 - 2013 BUILDING ENERGY EFFICIENCY STANDARDS)
17. MOP SINK FAUCET TO BE HAVE THREADED OUTER LIP FOR HOSE ATTACHMENT & APPROVED BACKFLOW PREVENTION DEVICE.
18. WATER HEATER SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER SECTION 507.2 CPC.
19. FLOOR DRAIN OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM & SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS.
20. EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN 6 INCHES ABOVE THE FLOOD-LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT.
21. ROUTING & TERMINATION OF FLUE & COMBUSTION AIR INTAKE FOR WATER HEATER SHALL COMPLY WITH CHAP. 5, CPC 2015 & WITH MANUFACTURER'S SPECIFICATIONS.
22. INSTALLATION OF PLUMBING FIXTURES SHALL COMPLY WITH CHAP. 4 CPC.
23. PLUMBING FIXTURES & FITTINGS SHALL COMPLY WITH ALL REQUIREMENTS IN SECTION 5.303 IN THE 2015 CALIFORNIA GREEN BUILDING CODE.
24. A WATER HEATER PRESSURE & TEMPERATURE RELIEF DRAIN THAT TERMINATES OUTSIDE THE BUILDING SHALL COMPLY WITH SECTION 608.5 CPC.
25. BUILDING DRAIN & VENT PIPING MATERIALS SHALL COMPLY WITH SECTIONS 701.0 & 903.0 OF THE CALIFORNIA PLUMBING CODE. ALL VENT LINES RUN THRU ROOF SHALL BE EQUIPPED WITH A VANDAL PROOF CAP.
26. ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
27. EACH SELF-CLOSING LAVATORY FAUCET SHALL NOT EXCEED A WATER FLOW OF 0.20 GALLONS PER CYCLE.
28. EACH KITCHEN FAUCET SHALL NOT EXCEED A WATER FLOW OF 1.5 GPM.
29. CALIFORNIA MECHANICAL CODE 2015 (CMC 2015), CALIFORNIA PLUMBING CODE 2015 (CPC 2015) & 2015 TITLE 24 ENERGY STANDARDS ARE THE CURRENT CODES/STANDARDS THAT ARE APPLICABLE TO THIS PROJECT.



GROUND FLOOR MECHANICAL & PLUMBING PLAN - COTTAGE 3/4 SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

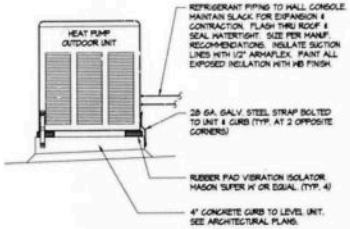
REFERENCE



BASEMENT MECHANICAL & PLUMBING PLAN - COTTAGE 3/4 SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE



1 HEAT PUMP DETAIL

MP1.1/MP1.2/MP1.3/MP1.4 MP1.2 NO SCALE

KEY NOTES

1. RUN 2" VENT UP THRU ROOF.
2. RUN 1-1/2" VENT UP IN WALL TO ABOVE CEILING. DROP 2" WASTE TO BELOW.
3. STUB OUT 1/2" HW & CW TO SINK. RUN 1/2" HW IN WALL TO DISHWASHER W/VALVE ACCESSIBLE UNDER SINK.
4. RUN 10/5.25 E.A. DUCT FROM HOOD UP IN CABINET ABOVE THRU ROOF TO CAP.
5. DROP 3/4" HW IN WALL TO BELOW. RUN 3/4" CW FROM BELOW UP & OUT OF WALL TO WATER HEATER WITH FULL PORT BALL VALVE & CHECK VALVE. RUN 3/4" DRAIN FROM PRT RELIEF VALVE INTO WALL. STUB OUT AT EXTERIOR & TURN DOWN. SEE DETAIL 1/MP1.1.
6. SET IN DRAIN PAN & STRAP TO WALL PER DETAIL 1, SHT. MP1.1.
7. RUN 3" VENT UP THRU ROOF.
8. STUB OUT 1/2" HW & CW TO LAV. RUN 1-1/2" VENT UP IN WALL TO ABV. CEILING. DROP 1-1/2" WASTE TO BELOW. DROP INSULATED 3/4" CONDENSATE DRAIN IN WALL & STUB OUT TO TAILPIECE FITTING AT LAV.
9. STUB OUT 1/2" CW TO WATER CLOSET.
10. MOUNT SECURELY TO STRUCTURE WITH GRILLE IN CEILING PER MANUF. RECOMMENDATIONS. RUN 8/8 E.A. DUCT UP THRU ROOF TO CAP.
11. MOUNT WALL CONSOLE CONTROLLER TO WALL AT 48" A.F.F.
12. MOUNT TO WALL WITH FACTORY MOUNTING PLATE PER MANUF. RECOMMENDATIONS. BOTTOM AT 7'-4" A.F.F. RUN INSULATED REFRIGERANT LINES TO ASSOC. OUTDOOR UNIT. CONNECT 3/4" INSULATED CONDENSATE DRAIN TO PUMP & RUN UP WALL TO ABOVE CEILING. DROP INTO TOP OF 3/4" INSULATED GRAVITY DRAIN & RUN TO WALL.
13. RUN 14/5 E.A. DUCT FROM BELOW TO WALL CAP AT 12" ABV. GRADE, MINIMUM 36" FROM OPERABLE WINDOW.
14. MOUNT TO LEVELED 4" CONCRETE PAD PER DETAIL 1, THIS SHEET. CONNECT REFRIGERANT PIPING FROM ASSOCIATED WALL CONSOLE.
15. NOT USED.
16. MOUNT SECURELY TO FLOOR STRUCTURE ABOVE PER MANUF. RECOMMENDATIONS. RUN 8/8 E.A. DUCT TO 14/5 RISER IN WALL.
17. SEE CIVIL PLANS FOR CONTINUATION OF 4" WASTE BELOW GRADE.
18. SEE CIVIL PLANS FOR ORIGIN OF 1-1/4" CW BELOW GRADE.
19. RUN 1/2" CW UP TO ICEMAKER VALVE BOX ABOVE.
20. 2" WASTE FROM ABOVE.
21. RUN 1/2" HW & CW UP IN WALL ABOVE.
22. RUN 3/4" CW UP IN WALL. 3/4" HW FROM ABOVE.
23. RUN 3/4" CW UP INTO WALL TO WALL HYDRANT ABOVE.
24. RUN 1/2" HW & CW UP TO LAV. 2" H FROM ABOVE.
25. RUN 1/2" CW UP TO WATER CLOSET ABOVE.
26. 4" CLOSET BEND FOR WATER CLOSET ABOVE.
27. RUN 4" WASTE, 1" CW & 3/4" HW THRU WALL.

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APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: MECHANICAL & PLUMBING PLANS - COTTAGE 3/4	SHEET NUMBER: MP1.2
LAMBERT COORDINATES:204-1721	THOMAS BROTHERS PAGE: 60, D-6
	(PSD #)

DEC 2017

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	DESCRIPTION	MINIMUM CONNECTION SIZE TRAP	W	V	CW	HW	REMARKS	QTY.	F.U. EACH W	F.U. EACH CW	F.U. TOTAL W	F.U. TOTAL CW
WC 1	WATER CLOSET	TOTO CST454EF01, FLOOR MOUNT, FLUSH TANK, SS334 SEAT W/O CVR.	INT.	4"	2"	1/2"		1.28 GPF, ELONGATED, 14" RIM HEIGHT, CHROME PLATED SUPPLY	5	5	2.5	25	12.5
L 1	LAVATORY	TOTO LT507.4, WALL MOUNT, VIT. CH. TOTO TEL188-01DEM FAUCET, 0.5 GPM	1-1/2"	2"	1-1/2"	1/2"	1/2"	20"x18", ADA COMPLIANT C.P. SUPPLIES W/STOPS, P-TRAP	5	1	1	5	5
SK 1	KITCHEN SINK	JUST DL-2233-A-GR, 304 STN. STL., JAF-200-HM FAUCET, J-55 DRAIN W/ANIGRATOR EVOLUTION ESSENTIAL	1-1/2"	2"	1-1/2"	1/2"	1/2"	33"x22", GOOSENECK FAUCET MAX. FLOW RATE OF 1.8 GPM, C.P. SUPPLIES W/STOPS, P-TRAP	8	2	1.5	16	12
SK 2	KITCHEN SINK	JUST SL-2233-A-GR, 304 STN. STL., JAF-200-HM FAUCET W/ANIGRATOR EVOLUTION ESSENTIAL	1-1/2"	2"	1-1/2"	1/2"	1/2"	33"x22", GOOSENECK FAUCET MAX. FLOW RATE OF 1.8 GPM, C.P. SUPPLIES W/STOPS, P-TRAP	1	2	1.5	2	1.5
MS 1	MOP SINK	FIAT MSB-2424, MOLDET STONE FAUCET W/VAC. BREAKER	3"	3"	2"	1/2"	1/2"	24"x24", FLOOR MOUNTED MOP BRACKET	1	3	3	3	3
WB 1	WASHER VALVE BOX	SYMONS H-600, PVC BOX & BRASS SUPP PAN	1-1/2	2"	1-1/2"	1/2"	1/2"	INCL. VALVES W/LEVER SHUTOFF	1	3	4	3	4
ID 1	ICEMAKER VALVE BOX	WATER-TITE ABM100, PVC BOX BRASS 1/4-TURN VALVE				1/2"		-	4	-	1	-	4
HB 1	WALL HYDRANT	WEAB WH1-7R, NICKEL-BRONZE BOX, BRONZE HEAD CASHW				3/4"		VACUUM BREAKER, SELF-DRAINING	1 4	- -	2.5 1	- -	2.5 4
WH 1	WATER HEATER	RHEEM PROE50 T2 RHS EGL 50 GAL (2) 4.5 kW, 240V NON-SHNLT. ELEMENTS				3/4"	3/4"	CEC APPROVED, G1.95 EF, WATTS EXPANSION TANK & RELIEF VALVE	5				
								TOTALS				44	55.5

MATERIAL LIST

SANITARY SOIL, WASTE AND VENT SYSTEMS:
SERVICE WEIGHT NO-HUB CAST IRON PIPE & FITTINGS WITH STAINLESS STEEL COUPLINGS. SCHEDULE 40 ABS PIPE & FITTINGS MAY BE USED BELOW SLAB IF ALLOWED BY LOCAL AUTHORITIES.

WATER PIPING ABOVE SLAB:
TYPE 'L' HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS. USE 45/5 SOLDER.

WATER PIPING BELOW SLAB:
TYPE 'K' SOFT DRAWN COPPER. NO JOINTS ARE ALLOWED BELOW SLAB.

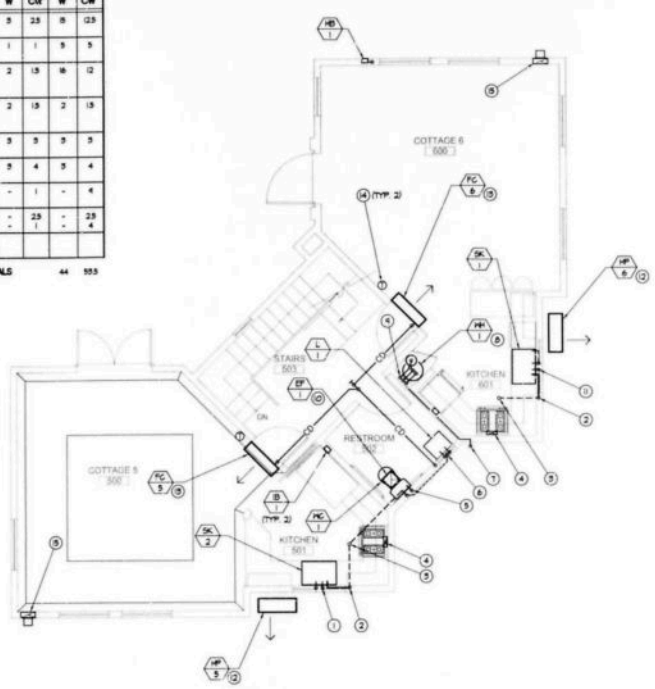
WATER PIPING BELOW GRADE OUTSIDE BUILDING:
SCHEDULE 40 PVC WITH APPROPRIATE FITTINGS. IF WATER PRESSURE AT STREET EXCEEDS 80 PSI, PROVIDE & INSTALL A PRESSURE REDUCING VALVE ASSEMBLY.

P&T RELIEF DRAINS & CONDENSATE DRAINS:
TYPE 'M' HARD DRAWN COPPER WITH WROUGHT COPPER FITTINGS. USE 45/5 SOLDER.

INSULATION:
ALL HOT WATER PIPING SHALL BE INSULATED WITH FIBERGLASS PIPE INSULATION WITH A SEALED VAPOR BARRIER, OWENS-CORNING ASJ-SSL OR APPROVED EQUAL. ALL EXPOSED HOT WATER & WASTE PIPING UNDER LAVATORY SHALL BE INSULATED WITH IPS CORP. "TRUBRO" PIPING COVERS OR APPROVED EQUAL. AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH JOHNS-MANVILLE "ADIRTHANE" CELLULAR PLASTIC FOAM PIPE INSULATION.

WATER HAMMER ARRESTORS:
ALL STAINLESS STEEL CONSTRUCTION, BELLOWS TYPE, P.D.I. APPROVED AND CERTIFIED. SIZING AND PLACEMENT SHALL BE PER PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH201, LATEST EDITION AND AS MANUFACTURED BY: ZURN, J.R. SMITH, OR PPP, INC.

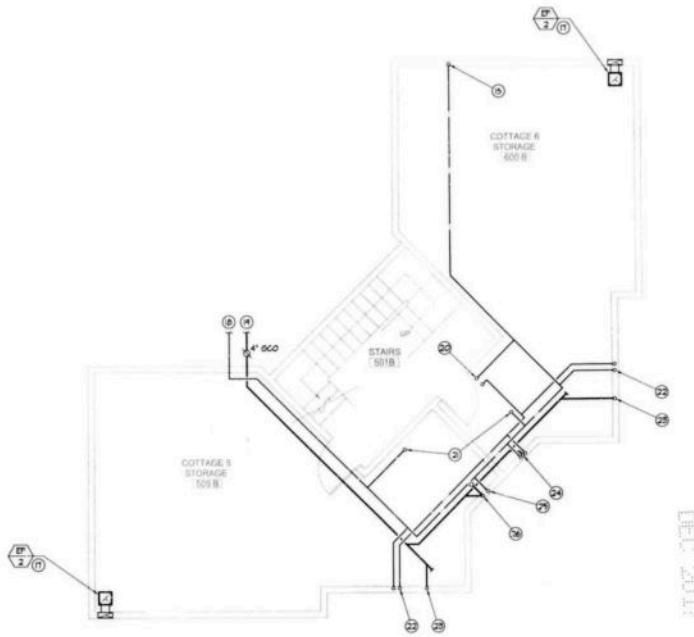
CLEANOUTS:
INSTALL AS SHOWN ON PLANS PER SECTION 708 & 707 OF THE U.P.C. AS MANUFACTURED BY: J.R. SMITH, ZURN OR JOSAM AS FOLLOWS:
A. FINISHED ROOM FLOORS: J.R. SMITH 4183 NIKASIL-BRONZE TOP AND GASKETED WATERTIGHT COVER.
B. WALLS: J.R. SMITH 4532 W/BRONZE PLUG AND CHROME PLATED COVER.
C. YARD AND PARKING LOT: J.R. SMITH 4255 CAST IRON SURFACE LEVEL CLEANOUT.



GROUND FLOOR MECHANICAL & PLUMBING PLAN - COTTAGE 5/6 SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE



BASEMENT MECHANICAL & PLUMBING PLAN - COTTAGE 5/6 SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE

KEY NOTES

1. STUB OUT 1/2" HW & CW TO SINK.
2. RUN 1-1/2" VENT UP IN WALL TO ABOVE CEILING. DROP 2" WASTE TO BELOW.
3. RUN 3" VENT UP THRU ROOF.
4. RUN 10/5.25 E.A. DUCT FROM HOOD UP IN CABINET ABOVE THRU ROOF TO CAP.
5. STUB OUT 1/2" CW TO WATER CLOSET.
6. STUB OUT 1/2" HW & CW TO LAV. RUN 1-1/2" VENT UP IN WALL TO ABV. CEILING. DROP 1-1/2" WASTE TO BELOW. DROP INSULATED 3/4" CONDENSATE DRAIN IN WALL & STUB OUT TO TAILPIECE FITTING AT LAV.
7. RUN 3/4" DRAIN FROM P&T RELIEF VALVE IN WALL TO EXTERIOR. STUB OUT WALL & TURN DOWN.
8. SET IN DRAIN PAN & STRAP TO WALL PER DETAIL, SHT. MP1.1
9. DROP 3/4" HW IN WALL TO BELOW. RUN 3/4" CW FROM BELOW UP & OUT OF WALL TO WATER HEATER WITH FULL PORT BALL VALVE & CHECK VALVE. SEE DETAIL.
10. MOUNT SECURELY TO STRUCTURE WITH GRILLE IN CEILING PER MANUF. RECOMMENDATIONS. RUN 8/8 E.A. DUCT UP THRU ROOF TO CAP.
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12. MOUNT TO LEVELED 4" CONCRETE PAD PER DETAIL 1, SHT. MP1.2. CONNECT REFRIGERANT PIPING FROM ASSOCIATED WALL CONSOLE.
13. MOUNT TO WALL WITH FACTORY MOUNTING PLATE PER MANUF. RECOMMENDATIONS. BOTTOM AT 7'-6" A.F.F. RUN INSULATED REFRIGERANT LINES TO ASSOC. OUTDOOR UNIT. CONNECT 3/4" INSULATED CONDENSATE DRAIN TO PUMP & RUN UP WALL TO ABOVE CEILING. DROP INTO TOP OF 3/4" INSULATED GRAVITY DRAIN & RUN TO WALL.
14. MOUNT WALL CONSOLE CONTROLLER TO WALL AT 48" A.F.F.
15. RUN 14/5 E.A. DUCT FROM BELOW TO WALL CAP AT 12" ABV. GRADE, MINIMUM 36" FROM OPERABLE WINDOW & PROPERTY LINE.
16. RUN 3/4" CW UP INTO WALL TO WALL HYDRANT ABOVE.
17. MOUNT SECURELY TO FLOOR STRUCTURE ABOVE PER MANUF. RECOMMENDATIONS. RUN 8/8 E.A. DUCT TO 14/5 RISER IN WALL.
18. SEE CIVIL PLANS FOR ORIGIN OF 1-1/4" GW BELOW GRADE.
19. SEE CIVIL PLANS FOR CONTINUATION OF 4" WASTE BELOW GRADE.
20. RUN 3/4" CW UP IN WALL. 3/4" HW FROM ABOVE.
21. RUN 1/2" CW UP TO ICEMAKER VALVE BOX ABOVE.
22. RUN 1/2" HW & CW UP IN WALL ABOVE.
23. 2" WASTE FROM ABOVE.
24. RUN 1/2" HW & CW UP TO LAV. 2" W FROM ABOVE.
25. RUN 1/2" CW UP TO WATER CLOSET ABOVE.
26. 4" - ...OSET BEND FOR WATER CLOSET ABOVE.

MECHANICAL EQUIPMENT LIST

FC-1 THRU 6 — MITSUBISHI MODEL MSZ-GL09NA-U1 WALL CONSOLE
HP-1 THRU 6 — MITSUBISHI MODEL MUZ-GL09NA-U1 HEAT PUMP
410 CFM (HI SPEED)

COOLING: EAT = 80°F(db)/67°F(wb), AMBIENT = 95°F
9.0 MBH TOTAL CAPACITY
7.21 MBH SENSIBLE CAPACITY
SEER = 20.5

HEATING: EAT = 70°F(db)/60°F(wb), AMBIENT = 47°F
9.8 MBH OUTPUT CAPACITY
HSPF = 11.2

ELEC.: FC = 1.0 MCA, 15A MAX. FUSE, 240V, 1 PH
HP = 14.0 MCA, 20A MAX. FUSE, 240V, 1 PH

ACCESORY: CONDENSATE PUMP, WIRED CONTROLLER

OPERAT.: FC = 28 LB. HP = 121 LB.

EF-1 — GREENHECK MODEL SP-A125 EXHAUST FAN
120 CFM, 0.125" S.P., 1100 RPM, 1.5 SONES

ELEC.: 55W, 120V, 1PH, SWITCH AT WALL

ACCESS.: RJ-6W ROOF CAP

EF-2 — GREENHECK MODEL SP-A200 EXHAUST FAN
280 CFM, 0.25" S.P., 1050 RPM, 5.0 SONES

ELEC.: 91W, 120V, 1PH, SWITCH AT WALL

ACCESS.: RS-6W8 WALL CAP

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APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

MECHANICAL & PLUMBING PLANS - COTTAGE 5/6 — MP1.3

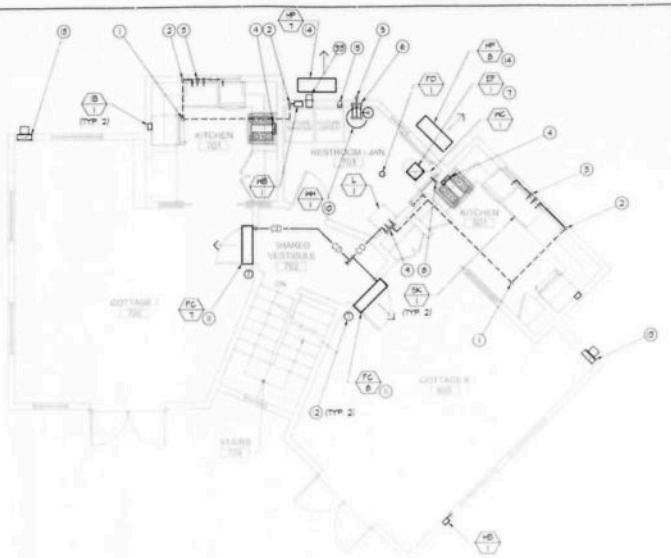
SHEET TITLE: — SHEET NUMBER:

LAMBERT COORDINATES:204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

DEC 2017

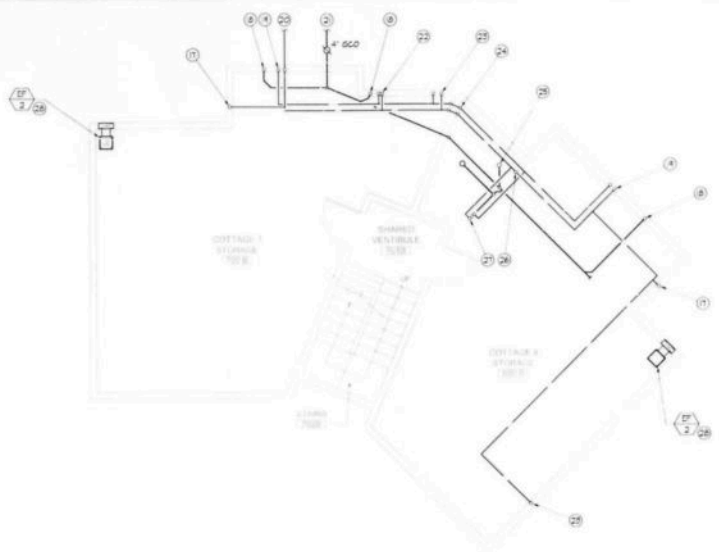
MECHANICAL GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE A COMPLETE & WORKING MECHANICAL SYSTEM, INCLUDING ALL NECESSARY DEVICES & APPURTENANCES NOT SHOWN ON THE PLANS. ALL WORK SHALL MEET ALL APPLICABLE CODES & REQUIREMENTS, INCLUDING THE 2013 CALIFORNIA MECHANICAL CODE, 2013 CAL GREEN CODE & 2013 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED FEES PERTAINING TO HIS WORK. COORDINATE ALL WORK WITH OTHER TRADES.
2. THE CONTRACTOR SHALL REFER TO ELECTRICAL CONTRACT DRAWINGS TO OBTAIN INFORMATION ON STARTERS, VOLTAGE, PHASE, INTERLOCKING OF CONTROLS & MISC. ITEMS SUCH AS RELAYS. ALL EQUIPMENT SHALL FULLY COMPLY WITH ELECTRICAL & CONTROL REQUIREMENTS.
3. RIGID DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL PER 2013 C.M.C. & SMACNA STANDARDS & INSTALLED IN A WORKMANLIKE MANNER. ROUND RIGID DUCT SHALL BE FLAT SPIRAL SEAM. DUCT SIZES ON PLAN INDICATE CLEAR INSIDE DIMENSIONS.
4. MECHANICAL CONTRACTOR SHALL PROVIDE TO THE OWNER A MANUAL WITH ALL OPERATION & MAINT... ICE INFORMATION, INCLUDING ALL WIRING DIAGRAMS, FOR ALL EQUIPMENT & SYSTEMS.
5. ALL EQUIPMENT AND WORK SHALL BE GUARANTEED FOR ONE YEAR AFTER OWNER ACCEPTANCE OF THE PROJECT.
6. ATTIC/UNDERFLOOR INSTALLATION MUST COMPLY WITH SECTIONS 504, 604 & 701.10 OF C.M.C.
7. AIR QUANTITIES INDICATED FOR INTERIOR RESTROOMS EXCEED CODE MINIMUM OF 12 AIR CHANGES PER HOUR.
8. ALL ENVELOPE & MECHANICAL CERTIFICATE OF ACCEPTANCE FORMS & ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED & APPROVED.
9. EXHAUST DUCTS SHALL BE EQUIPPED WITH BACKDRAFT DAMPERS PER SECTION 504.0 C.M.C.
10. CONTRACTOR SHALL BALANCE ALL SYSTEMS TO AIR QUANTITIES INDICATED AT ALL INLETS & OUTLETS TO WITHIN 10% OF DESIGN. PROVIDE BALANCING DAMPERS AS REQUIRED. PROVIDE AIR BALANCE REPORT IN AABC FORMAT TO OWNER PRIOR TO FINAL INSPECTION.
11. CONTRACTOR SHALL SUBMIT ALL CHANGES OR SUBSTITUTIONS TO MECHANICAL ENGINEER FOR REVIEW & APPROVAL.
12. CALIFORNIA MECHANICAL CODE 2013 (CMC 2013), CALIFORNIA PLUMBING CODE 2013 (CPC 2013) & 2013 TITLE 24 ENERGY STANDARDS ARE THE CURRENT CODES/STANDARDS THAT ARE APPLICABLE TO THIS PROJECT.
13. EXHAUST DUCT FOR TYPE II DRYERS SHALL COMPLY WITH SECTION 505.5 CMC.
14. TYPE II DRYERS SHALL BE EQUIPPED OR INSTALLED WITH LINT CONTROLLING MEANS.
15. COOKTOP/RANGES ARE FOR PRIVATE USE & LISTED FOR RESIDENTIAL APPLICATION.



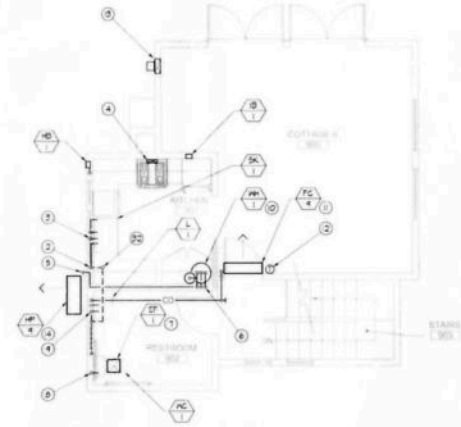
GROUND FLOOR MECHANICAL & PLUMBING PLAN - COTTAGE 7/8 SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET REFERENCE



BASEMENT MECHANICAL & PLUMBING PLAN - COTTAGE 7/8 SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET REFERENCE

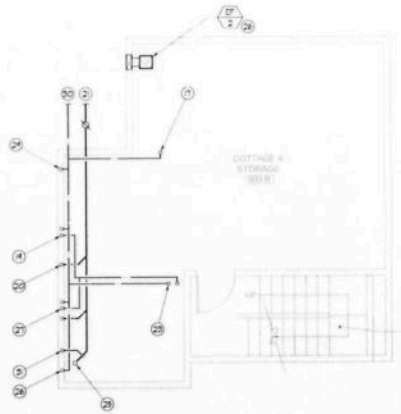


GROUND FLOOR MECHANICAL & PLUMBING PLAN - COTTAGE 9 SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET REFERENCE

MECHANICAL GENERAL NOTES

15. ALL PIPING & DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 120.3, 120.4 & 120.7 TITLE 24 ENERGY STANDARDS & CHAPTER 6 OF CMC.
16. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 & 120.2 EES.
17. ALL HVAC EQUIPMENT & APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTIONS 110.1-110.3, 110.5, 120.1-120.4 TITLE 24 ENERGY STANDARDS.
18. MECHANICALLY OR NATURALLY VENTILATED SPACES IN BUILDINGS SHALL MEET THE MINIMUM REQUIREMENTS OF SECTION 121 REQUIREMENTS FOR VENTILATION OF THE 2010 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8 (CAL GREEN SECTION 5.508.1)



BASEMENT MECHANICAL & PLUMBING PLAN - COTTAGE 9 SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET REFERENCE

KEY NOTES

1. RUN 5" VENT UP THRU ROOF.
2. RUN 1-1/2" VENT UP IN WALL TO ABOVE CEILING. DROP 2" WASTE TO BELOW.
3. STUB OUT 1/2" HW & CW TO SINK. RUN 1/2" HW IN WALL TO DISHWASHER W/VALVE ACCESSIBLE UNDER SINK.
4. RUN 10"Ø.25 G.A. DUCT FROM HOOD UP IN CABINET ABOVE THRU ROOF TO CAP.
5. RUN 3/4" DRAIN FROM PRT RELIEF VALVE INTO 4 DOWN HALL TO 2" ABOVE GRADE. STUB OUT & TURN DOWN.
6. DROP 3/4" HW IN WALL TO BELOW. RUN 3/4" CW FROM BELOW UP & OUT OF WALL TO WATER HEATER WITH FULL PORT BALL VALVE & CHECK VALVE. SEE (MP1).
7. MOUNT SECURELY TO STRUCTURE WITH GRILLE IN CEILING PER MANUF. RECOMMENDATIONS. RUN 8/8 G.A. DUCT UP THRU ROOF TO CAP.
8. STUB OUT 1/2" CW TO WATER CLOSET.
9. STUB OUT 1/2" HW & CW TO LAV. RUN 1-1/2" VENT UP IN WALL TO ABV. CEILING. DROP 1-1/2" WASTE TO BELOW. DROP INSULATED 3/4" CONDENSATE DRAIN IN WALL & STUB OUT TO TAILPIECE FITTING AT LAV.
10. SET IN DRAIN PAN & STRAP TO WALL PER DETAIL 3/HT. MP1.
11. MOUNT TO WALL WITH FACTORY MOUNTING PLATE PER MANUF. RECOMMENDATIONS. BOTTOM AT 7'-4" A.F.F. RUN INSULATED REFRIGERANT LINES TO ASSOC. OUTDOOR UNIT. CONNECT 3/4" INSULATED CONDENSATE DRAIN TO PUMP & RUN UP WALL TO ABOVE CEILING. DROP INTO TOP OF 3/4" INSULATED GRAVITY DRAIN & RUN TO WALL.
12. MOUNT WALL CONSOLE CONTROLLER TO WALL AT 48" A.F.F.
13. RUN 14/8 E.A. DUCT FROM BELOW TO WALL CAP AT 12" ABV. GRADE. MINIMUM 36" FROM OPERABLE WINDOW & PROPERTY LINE.
14. MOUNT TO LEVELED 4" CONCRETE PAD PER DETAIL 1, SHT. MP1.2. CONNECT REFRIGERANT PIPING FROM ASSOCIATED WALL CONSOLE.
15. RUN 4" DRYER VENT INTO 4 UP WALL TO ROOF CAP WITHOUT SCREEN OR DAMPER. CAP DUCT INSIDE ROOM FOR FUTURE USE. MIN 36" CLEARANCE FROM OPENABLE WINDOW & PROPERTY LINE. GREENHECK RJ-4 OR EQUAL.
16. NOT USED.
17. RUN 1/2" CW UP TO ICEMAKER VALVE BOX ABOVE.
18. 2" WASTE FROM ABOVE.
19. RUN 1/2" HW & CW UP IN WALL ABOVE.
20. SEE CIVIL PLANS FOR ORIGIN OF 1" HW & CW BELOW GRADE.
21. SEE CIVIL PLANS FOR CONTINUATION OF 4" WASTE BELOW GRADE.
22. RUN 1/2" HW & CW UP TO WASHER BOX.
23. RUN 3/4" CW UP IN WALL. 3/4" HW FROM ABOVE.
24. RUN 4" WASTE, 1" CW & 3/4" HW THRU WALL.
25. 4" CI/SET BEND FOR WATER CLOSET ABOVE.
26. RUN 1/2" CW UP TO WATER CLOSET ABOVE.
27. RUN 1/2" HW & CW UP TO LAV. 2" W FROM ABOVE.
28. MOUNT SECURELY TO FLOOR STRUCTURE ABOVE PER MANUF. RECOMMENDATIONS. RUN 8/8 E.A. DUCT TO 14/5 RISER IN WALL.
29. RUN 3/4" CW UP INTO WALL TO WALL HYDRANT ABOVE.
30. SEE CIVIL PLANS FOR ORIGIN OF 1" CW BELOW GRADE.
31. RUN 2" VENT UP IN WALL ABOVE.
32. RUN 4" VENT UP THRU ROOF.
33. PROVIDE WALL CAP W/SCREEN & BACKDRAFT DAMPER AT 40" A.F.F. RUN 5" (14 & SQ. IN.) HANDLE AIR DUCT THRU WALL. CAP INSIDE ROOM FOR FUTURE USE. MAX. DRYER SIZE IS 5 KW.

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: MECHANICAL & PLUMBING PLANS - COTTAGE 7/8, COTTAGE 9

SHEET NUMBER: MP1.4

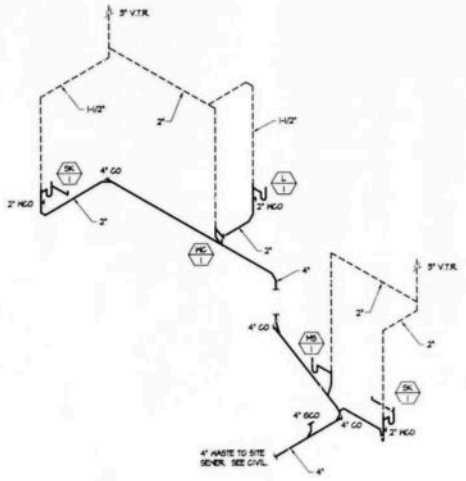
LAMBERT COORDINATES: 204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

ENGINEERED SYSTEMS
Consulting Engineers

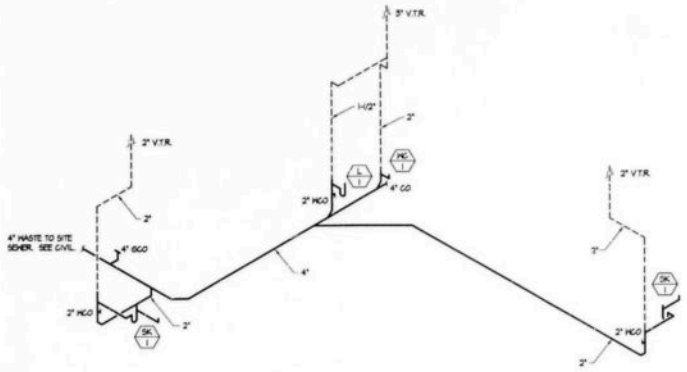
ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

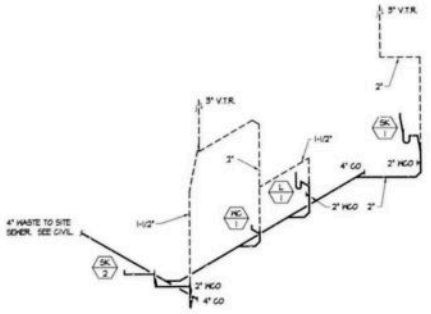
HERITAGE ARCHITECTURE & PLANNING



COTTAGE 1/2 NO SCALE



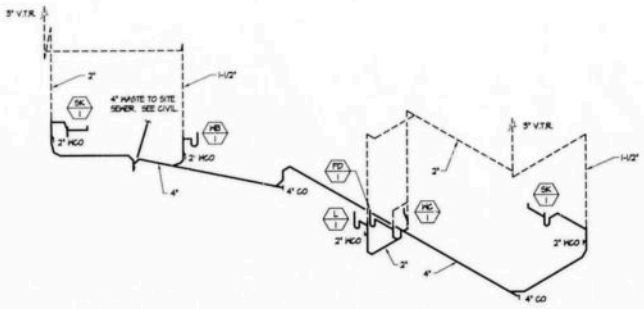
COTTAGE 3/4 NO SCALE



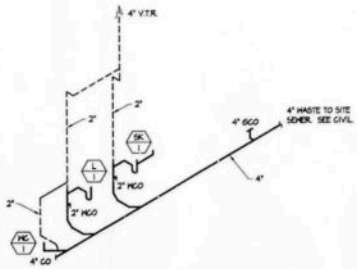
COTTAGE 5/6 NO SCALE

NOTES

1. WASTE PIPING BELOW GRADE SHOWN WITH CONTINUOUS LINES FOR CLARITY.
2. SEE FIXTURE SCHEDULE ABOVE FOR INDIVIDUAL FIXTURE PIPING SIZES.



COTTAGE 7/8 NO SCALE



COTTAGE 9 NO SCALE

ENGINEERED SYSTEMS
Consulting Engineers

ARCHITECT OF WORK

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HERITAGE ARCHITECTURE & PLANNING

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: WASTE & VENT SCHEMATICS	SHEET NUMBER: MP2.1
LAMBERT COORDINATES:204-1721 THOMAS BROTHERS PAGE: 60, D-6	(PSD #)

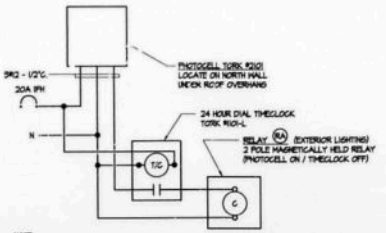
KEY NOTES

1. POLE MOUNTED LED FIXTURE "P" ON 10 FT. POLE. 11'-6" FROM FINISHED GRADE TO PHOTOMETRIC CENTER OF FIXTURE. SEE LIGHTING FIXTURE SCHEDULE, SHT. E1.3 & LIGHTING FIXTURE POLE BASE DETAIL, THIS SHEET.
2. SEE BASEMENT ELECTRICAL PLAN - COTTAGE 3/4 & PANEL 4 SCHEDULE, SHT. E1.2.
3. SEE BASEMENT ELECTRICAL PLAN - COTTAGE SCHEDULE, SHT. E1.4.
4. 200A, 120/240V, 1 PH 3W, IN NEMA 3R ENCLOSURE. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFO.
5. PAD MOUNTED TRANSFORMER BY UTILITY CO.
6. 50A, 120/240V, 1 PH 3W, IN NEMA 3R ENCLOSURE. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFO.

PARTIAL ELECTRICAL SITE PLAN - WEST

SCALE: 1/8" = 1'-0"

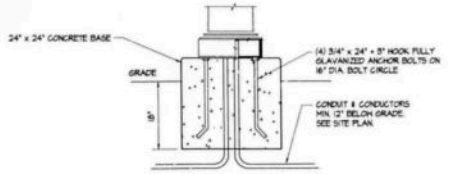
0 2 4 8 16 FEET



NOTE:
MOUNT RELAY & TIMECLOCK IN A SURFACE MOUNTED NEMA 1 CABINET ADJACENT TO PANELS 4 & 9.

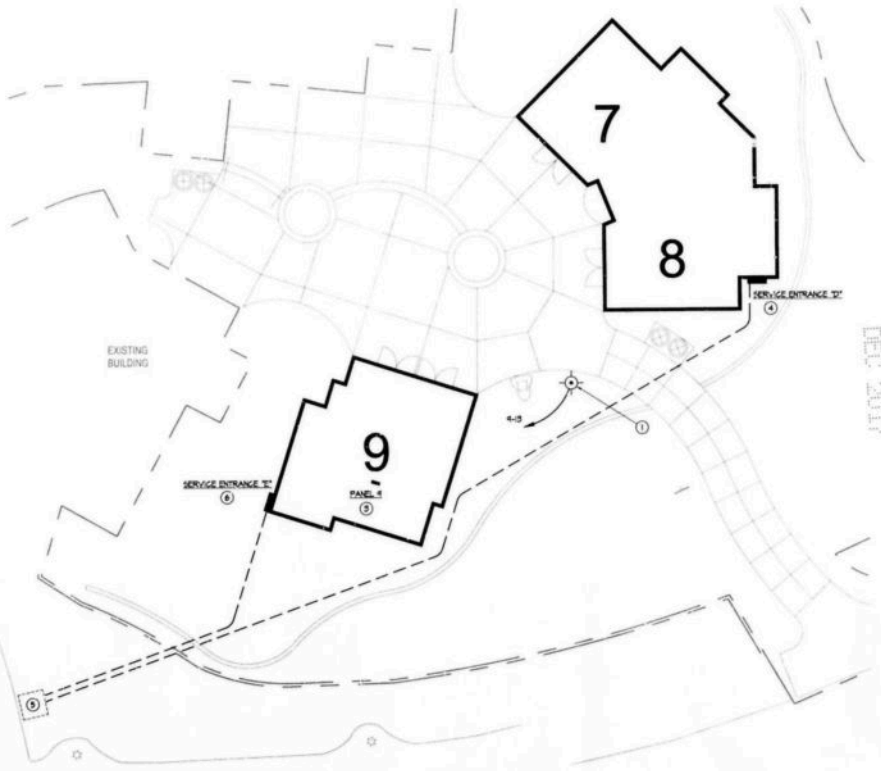
2 E0.1 | E0.1 **TYPICAL EXTERIOR LIGHTING CONTROL**

NO SCALE



1 E0.1 | E0.1 **LIGHTING FIXTURE POLE BASE DETAIL**

NO SCALE



PARTIAL ELECTRICAL SITE PLAN - EAST

SCALE: 1/8" = 1'-0"

0 2 4 8 16 FEET

DEC 2017

ENGINEERED SYSTEMS
Consulting Engineers

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING

APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: ELECTRICAL SITE PLANS	SHEET NUMBER: E0.1
LAMBERT COORDINATES:204-1721	THOMAS BROTHERS PAGE: 60, D-6
	(PSD #)

MOUNTING SURFACE	PANEL 1	MAIN 150A/3P
VOLTAGE 120/240	PHASE 1 WIRE 3 AIC SYM. [2]	BUS 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B	CKT	POLE	WIRE	CKT	POLE	WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
CHANDELIER	500		1	20	12	2	20	1280		SWITCHED RECEPT.
GROUND FLR. LTG.		121	10	20	3	4	20	2	1000	KITCHEN RECEPT.
BASEMENT LTG.	341		5	20	5	6	20	2	1000	KITCHEN RECEPT.
BASEMENT RECEPT.		1080	6	20	7	8	20	1		500 REFRIGERATOR
SPARE	-		-	20	9	10	20	1	1200	DISHWASHER
SPARE		-	-	20	11	12	20	1		500 DISPOSAL
SPARE	-		-	20	13	14	20	1	276	RANGE HOOD
SPARE	-	-	-	20	15	16	20	4		120 RESTRM./VEST./EXT.
SPACE	-		-	-	17	18	40	2	5600	RANGE/OVEN
SPACE		-	-	-	19	20	2	-		5600 RANGE/OVEN
WALL CONSOLE FC-1	120		1	5	21	22	20	1	680	HEAT PUMP HP-1
WALL CONSOLE FC-1		120	-	2	23	24	2	-	680	HEAT PUMP HP-1
	841	1321	WATTS/LINE					926	8500	
PHASE A = 9821								PHASE B = 9821		

TOTAL CONNECTED = 19484 VA
+25% LOL =
TOTAL =
CALCULATED LOAD = 73 A
MIN. FEEDER SIZE = -

LOAD RECAP		
LIGHTING: 818 W x 1.25 =	1023 W	
MECHANICAL: 3600 W x 1.25 =	4500 W	[3]
KITCHEN EQUIP.: 5678 W x 0.85 =	6484 W	
MISC.: 5080 W x 1.0 =	5080 W	
TOTAL =	17087 W	
TOTAL =	71 A	

[1] SEE LOAD RECAP
[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.
[3] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	DUPLEX CONVENIENCE OUTLET, +15" A.F.F., U.N.O.
	DOUBLE DUPLEX CONVENIENCE OUTLET, +15" A.F.F., U.N.O.
GFI	DUPLEX OUTLET W/GROUND FAULT CIRCUIT INTERRUPTER
S	U/S SWITCHED CONVENIENCE OUTLET, +15" A.F.F., U.N.O.
	DUPLEX CONVENIENCE OUTLET, CEILING MOUNTED
	DUPLEX CONVENIENCE OUTLET, RECESSED FLOOR MOUNTED. PROVIDE BRASS COVER, FLUSH WITH FLOOR SURFACE.
	SIMPLEX CONVENIENCE OUTLET FOR EQUIPMENT. VERIFY TYPE & RATING.
(2) (3)	JUNCTION BOX - WALL OR CEILING MOUNTED
S S3 S4	WALL SWITCH. SINGLE, THREE-POLE & FOUR-POLE
SaSb	DUAL SWITCH
S_O	WALL SWITCH W/OCCUPANCY SENSOR. WATT STOPPER OW-100.
S^T	THERMAL DISCONNECT SWITCH
S^D S^{D3}	DIMMER SWITCH COMPATIBLE W/LAMP SOURCE CONTROLLED SINGLE POLE & THREE-WAY
OS	OCCUPANCY SENSOR
P	PHOTOCELL - WATT STOPPER LMLS 500HT.
TS	PROGRAMMABLE MICROPROCESSOR TIME SWITCH
	DATA OUTLET BOX W/COVER & CAT. 6 CABLING
	2-GANG TELEPHONE/DATA OUTLET BOX W/COVER & CAT. 6 CABLING
	NON-FUSED DISCONNECT SWITCH
60 3	FUSED DISCONNECT INDICATING SWITCH SIZE AND NO. OF POLES. FUSES TO BE PER MEGA EQUIP. NAME PLATE DATA.
	SWITCH & FUSE
	CIRCUIT BREAKER
	MOTOR CONNECTION
	CONDUIT CONCEALED IN CEILING OR WALL, 2 #12 & PHASE WIRE & 1 NEUTRAL WIRE) IN 1/2" CONDUIT, UNLESS NOTED OTHERWISE.
	CONDUIT CONCEALED IN CEILING OR WALL, 3 #12 (2 PHASE WIRES & 1 NEUTRAL WIRE) IN 1/2" CONDUIT, UNLESS NOTED OTHERWISE.
WP	WEATHERPROOF
	BOUNDARY OF PRIMARY & SECONDARY DAYLIT AREAS.
	BOUNDARY OF EGRESS LIGHTING 1 FC AVERAGE

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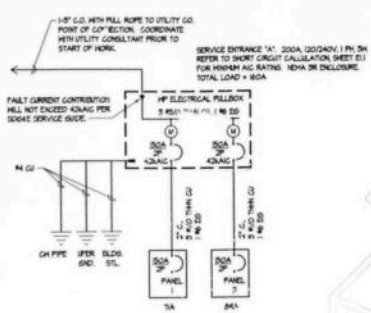
GROUND FLOOR ELECTRICAL PLAN - COTTAGE 1/2

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE

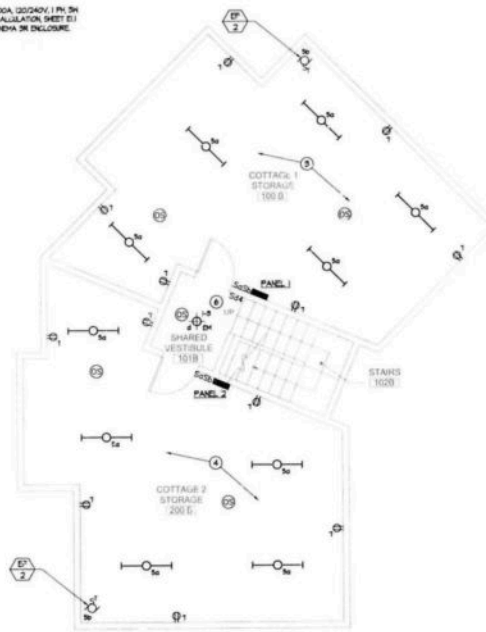


SERVICE ENTRANCE "A" SINGLE LINE DIAGRAM

COTTAGES 1 THRU 6 NO SCALE

KEY NOTES

1. ALL RECEPTACLES AT KITCHEN SHALL BE GFI TYPE.
2. MOUNT ABOVE CEILING. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
3. ALL CIRCUITS IN COTTAGE 1 SHALL BE RUN TO PANEL 1 UNLESS NOTED OTHERWISE.
4. ALL CIRCUITS IN COTTAGE 2 SHALL BE RUN TO PANEL 2 UNLESS NOTED OTHERWISE.
5. SEE SINGLE LINE DIAGRAM.
6. EGRESS LIGHTING AREA OF 1 FC AVERAGE.



BASEMENT ELECTRICAL PLAN - COTTAGE 1/2

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE

VOLTAGE DROP CALCULATION

PROJECT: BALBOA INTERNATIONAL COTTAGES
SYSTEM VOLTAGE: 240
SYSTEM PHASE: 1
METRIC (Y/N): N

LOAD DESCRIPTION	NOMINAL VOLTAGE	SYSTEM PHASE	STARTING VOLTAGE	POWER FACTOR	LENGTH OF CIRCUIT IN FEET	CURRENT IN AMPS	INITIAL WIRE SIZE	INITIAL WIRE RUNS	FINAL WIRE SIZE	FINAL WIRE RUNS	INITIAL EQ GND WIRE SIZE	RE/20 GND WIRE SIZE	LINE TO NEUTRAL Y/N	MAGNETIC CONDUIT Y/N	WIRE TYPE Copper Aluminum	VOLTS DROPPED	SINGLE RUN PERCENT	ADD % TO OTHER LOAD Y/N	ADD TO WHAT LOAD	ENDING VOLTAGE	TOTAL PERCENT DROPPED
P1	240	1	240.0	90%	35.0	120.0	1/0	1	1/0	1	6	6	N	N	C	1.1	0.45%	N		238.9	0.45%
P2	240	1	240.0	90%	35.0	120.0	1/0	1	1/0	1	6	6	N	N	C	1.1	0.45%	N		238.9	0.45%
P3	240	1	240.0	90%	30.0	120.0	1/0	1	1/0	1	6	6	N	N	C	0.9	0.38%	N		239.1	0.38%
P4	240	1	240.0	90%	45.0	120.0	1/0	1	1/0	1	6	6	N	N	C	1.4	0.57%	N		238.6	0.57%
P5	240	1	240.0	90%	30.0	120.0	1/0	1	1/0	1	6	6	N	N	C	0.9	0.38%	N		239.1	0.38%
P6	240	1	240.0	90%	30.0	120.0	1/0	1	1/0	1	6	6	N	N	C	0.9	0.38%	N		239.1	0.38%
P7	240	1	240.0	90%	40.0	120.0	1/0	1	1/0	1	6	6	N	N	C	1.2	0.51%	N		238.8	0.51%
P8	240	1	240.0	90%	35.0	120.0	1/0	1	1/0	1	6	6	N	N	C	1.1	0.45%	N		238.9	0.45%
P9	240	1	240.0	90%	35.0	120.0	1/0	1	1/0	1	6	6	N	N	C	1.1	0.45%	N		238.9	0.45%

SHORT CIRCUIT CALCULATION

Project: Balboa International Cottages -
LENGTHS SHOWN ARE FOR CALCULATION PURPOSES ONLY. NOT FOR BIDDING.
SYSTEM VOLTAGE: 240 PHASE: 1

PANEL OR FAULT LOCATION	CONTINUED Y/N	FROM	CALC L-L-L-N	NFMR (Y/N)	ISC AT START	TRANSFORMER PROPERTIES KVA	PRI VOLT	SEC VOLT	IMPED %	WIRE MATERIALS SIZE	QTY/PH	WIRE	CONDUIT	CABLE	VOLTS	PHASE	LENGTH	MOTOR FLA	MIN. INC. RATING
UTILITY			L-L			-	-	-	-	-	-	-	-	-	-				42,000A
SERVICE A	Y	UTILITY	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	0.00		42,000A
P1	Y	SERVICE A	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	35.00	19A	18,220A
P2	Y	SERVICE A	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	35.00	19A	18,220A
										-	-	-	-	-	-				
SERVICE B	Y	UTILITY	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	0.00		42,000A
P3	Y	SERVICE B	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	30.00	19A	19,622A
P4	Y	SERVICE B	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	45.00	19A	13,661A
										-	-	-	-	-	-				
SERVICE C	Y	UTILITY	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	0.00		42,000A
P5	Y	SERVICE C	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	30.00	19A	19,622A
P6	Y	SERVICE C	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	30.00	19A	19,622A
										-	-	-	-	-	-				
SERVICE D	Y	UTILITY	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	0.00		42,000A
P7	Y	SERVICE D	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	40.00	19A	16,835A
P8	Y	SERVICE D	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	35.00	19A	18,220A
										-	-	-	-	-	-				
SERVICE E	Y	UTILITY	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	0.00		42,000A
P9	Y	SERVICE E	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	35.00	19A	18,220A
										-	-	-	-	-	-				

MOUNTING SURFACE	PANEL 2	MAIN 150A/3P
VOLTAGE 120/240	PHASE 1 WIRE 3 AIC SYM. [2]	BUS 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B	CKT	POLE	WIRE	CKT	POLE	WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
CHANDELIER	500		1	20	1	2	20	1	1280	SWITCHED RECEPT.
GROUND FLR. LTG.		55	5	20	3	4	20	2		1000 KITCHEN RECEPT.
BASEMENT LTG.	341		5	20	5	6	20	2	1000	KITCHEN RECEPT.
BASEMENT RECEPT.		1080	6	20	7	8	20	1		500 REFRIGERATOR
SPARE	-		-	20	9	10	20	1	1200	DISHWASHER
SPARE		-	-	20	11	12	20	1		500 DISPOSAL
SPARE	-		-	20	13	14	20	1	276	RANGE HOOD
SPARE		-	-	20	15	16	20	2		560 EXTERIOR RECEPT.
HATER HEATER	2250		1	50	17	18	40	2	5600	RANGE/OVEN
HATER HEATER		2250	-	2	19	20	2	-		5600 RANGE/OVEN
WALL CONSOLE FC-2	120		1	5	21	22	20	1	680	HEAT PUMP HP-2
WALL CONSOLE FC-2		120	-	2	23	24	2	-		680 HEAT PUMP HP-2
	3061	5485	WATTS/LINE					926	8500	
PHASE A = 12071								PHASE B = 11785		

TOTAL CONNECTED = 25840 VA
+25% LOL =
TOTAL =
CALCULATED LOAD = 84 A
MIN. FEEDER SIZE = -

LOAD RECAP		
LIGHTING: 726 W x 1.25 =	908 W	
MECHANICAL: 3600 W x 1.25 =	4500 W	[3]
KITCHEN EQUIP.: 6678 W x 0.85 =	6484 W	
MISC.: 5080 W x 1.0 =	5080 W	
TOTAL =	21441 W	
TOTAL =	84 A	

[1] SEE LOAD RECAP
[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.
[3] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.

JUNE 26, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ELECTRICAL PLANS - COTTAGE 1/2

E1.1

SHEET NUMBER:

SHEET TITLE:

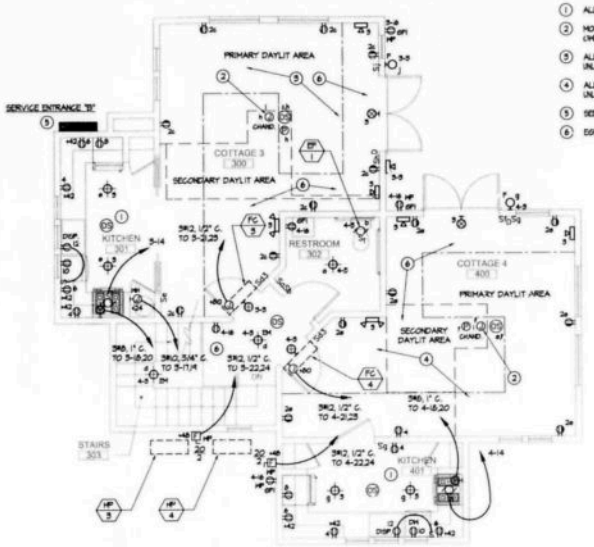
LAMBERT COORDINATES:204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

GENERAL NOTES

1. ALL DEVICES, CONDUIT, FIXTURES ARE NEW UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT, WHETHER INDICATED ON DRAWINGS OR NOT.
3. CONTRACTOR SHALL VISIT SITE TO VERIFY ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS (OR HER) BID.
4. CONFIRM ALL P.O.C. REQUIREMENTS WITH EQUIPMENT SUPPLIER INCLUDING NEMA CONFIGURATION, NATURE OF CONNECTION, MOUNTING, HEIGHT, ETC.
5. SAWCUT CONCRETE FOR DEVICES WHERE REQUIRED. RUN TO NEAREST WALL & RISE TO ACCESSIBLE ATTIC SPACE WHERE APPLICABLE. CONFIRM ROUTING OF ALL FEEDERS WITH OWNER'S REPRESENTATIVE.
6. COORDINATE ALL NEW SERVICE REQUIREMENTS WITH SAN DIEGO GAS & ELECTRIC CO.
7. CONFIRM ALL SWITCH LOCATIONS WITH ARCHITECT PRIOR TO ROUGHING-IN BOXES.
8. ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH 2013 CALIFORNIA ELECTRICAL CODE, CALGREEN & ALL LOCAL ORDINANCES.
9. VERIFY EXACT LOCATIONS OF JUNCTION BOXES, SWITCHES, LIGHTS, PANELS, TELEPHONE OUTLETS, STUB OUTS & OTHER EQUIPMENT WITH THE OWNER.
10. ALL CONDUITS, JUNCTION BOXES & OUTLET BOXES SHALL BE FLUSH UNLESS NOTED OTHERWISE.
11. RECEPTACLE UNITS SHALL BE INSTALLED AT THE HEIGHTS NOTED.
12. WIRING CONDUCTORS SHALL BE AWG CU WITH INSULATION TYPE THWN OR THHN, MINIMUM 12 AWG. ALL WIRING TO BE COLOR CODED PER N.E.C. ALL WIRING TO BE RUN IN METAL RACEWAYS. BX CABLE OR ROMEX ARE NOT ALLOWED.
13. ALL WIRE RUNS REQUIRE THE USE OF AN EQUIPMENT GROUNDING CONDUCTOR.
14. ALL CONDUIT TO BE GALVANIZED STEEL WITH WATERTIGHT FITTINGS WHERE REQUIRED BY CODE.
15. ALL MATERIALS SHALL BE NEW & BEAR UNDERWRITERS LAB. & UNION LABELS WHERE SUCH LABELS APPLY.
16. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER.
17. HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HID SHALL CONTAIN ONLY HIGH EFFICACY LAMPS AS OUTLINED IN CEC TABLE 150-C, & DO NOT CONTAIN A MEDIUM SCREW BASE SOCKET. BALLASTS FOR LAMPS 13W OR GREATER ARE ELECTRIC & HAVE AN OUTPUT FREQUENCY OF NO LESS THAN 20 kHz.
18. HIGH EFFICACY LUMINAIRES - OUTDOOR HID SHALL CONTAIN ONLY HIGH EFFICACY LAMPS AS OUTLINED IN CEC TABLE 150-C. LUMINAIRE SHALL HAVE FACTORY INSTALLED HID BALLAST.
19. PERMANENTLY INSTALLED LUMINAIRES IN KITCHENS SHALL BE HIGH EFFICACY LUMINAIRES, UP TO 50% OF THE WATTAGE, AS DETERMINED IN CEC SECTION 150(k) OF PERMANENTLY INSTALLED LUMINAIRES MAY BE IN LUMINAIRES THAT ARE NOT HIGH EFFICACY LUMINAIRES, PROVIDED THESE LUMINAIRES ARE CONTROLLED BY SWITCHES SEPARATE FROM THOSE CONTROLLING THE HIGH EFFICACY LUMINAIRES.
20. PERMANENTLY INSTALLED LUMINAIRES IN BATHROOMS, GARAGES, LAUNDRY ROOMS & UTILITY ROOMS SHALL BE HIGH EFFICACY LUMINAIRES OR CONTROLLED BY AN OCCUPANT SENSOR CERTIFIED TO COMPLY WITH CEC SECTION 119(d).
21. PERMANENTLY INSTALLED LUMINAIRES LOCATED OTHER THAN IN KITCHENS, BATHROOMS, GARAGES, LAUNDRY ROOMS & UTILITY ROOMS SHALL BE HIGH EFFICACY LUMINAIRES (EXCEPT CLOSETS LESS THAN 70 SQ.FT.) OR ARE CONTROLLED BY A DIMMER SWITCH, OR ARE CONTROLLED BY AN OCCUPANCY SENSOR CERTIFIED TO COMPLY WITH CEC SECTION 119(d) THAT DOES NOT TURN ON AUTOMATICALLY OR HAVE AN ALWAYS ON OPTION.
22. LUMINAIRES THAT ARE RECESSED INTO INSULATED CEILINGS SHALL BE APPROVED FOR ZERO CLEARANCE INSULATION COVER (IC) AND ARE CERTIFIED TO ASTM E283 AND LABELED AS AIR TIGHT (AT) TO LESS THAN 2.0 CFM AT 75 PASCALS.
23. PROVIDE A MINIMUM OF 1 FC AT FLOOR LEVEL ON EGRESS PATHWAY.
24. PROVIDE ARC-FLASH LABEL FOR SAFE WORK REQUIREMENT IN ACCORDANCE WITH NFPA 70E TABLE 130.7(C)(15)(A)(b) AND NFPA 70E TABLE 130.7(C)(9)(a).

KEY NOTES

1. ALL RECEPTACLES AT KITCHEN SHALL BE GFI TYPE.
2. MOUNT ABOVE CEILING. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
3. ALL CIRCUITS IN COTTAGE 3 SHALL BE RUN TO PANEL 3 UNLESS NOTED OTHERWISE.
4. ALL CIRCUITS IN COTTAGE 4 SHALL BE RUN TO PANEL 4 UNLESS NOTED OTHERWISE.
5. SEE SINGLE LINE DIAGRAM.
6. EGRESS LIGHTING AREA OF 1 FC AVERAGE.

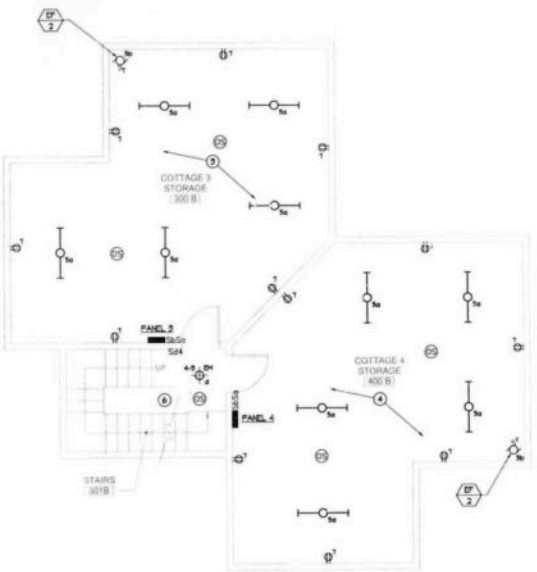


GROUND FLOOR ELECTRICAL PLAN - COTTAGE 3/4

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE

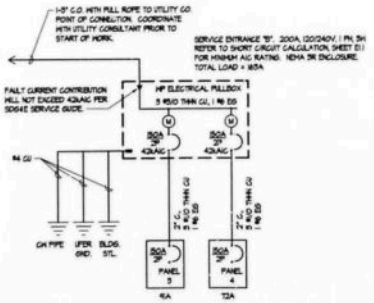


BASEMENT ELECTRICAL PLAN - COTTAGE 3/4

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE



SERVICE ENTRANCE "B" SINGLE LINE DIAGRAM

COTTAGES 1 THRU 6 NO SCALE

PANEL 3

MOUNTING SURFACE — MAIN 50A/2P

VOLTAGE 120/240 — PHASE 1 — WIRE 3 — AIC SYM. [2] — BUS 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B											WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
CHANDELIER	300		1	20	1			2	20	1	8		1440		SWITCHED RECEPT.
GROUND FLR. LTG.		371	5			3		4	20	1	2			1000	KITCHEN RECEPT.
BASEMENT LTG.	341		5	1	20	5		6	20	1	2		1000		KITCHEN RECEPT.
BASEMENT RECEPT.		1080	6	20	7			8	20	1				500	REFRIGERATOR
SPARE	-		-	20	9			10	20	1	1		1200		DISHWASHER
SPARE		-	-	20	11			12	20	1				500	DISPOSAL
SPARE	-		-	20	13			14	20	1			276		RANGE HOOD
SPARE		-	-	20	15			16	20	1	5		540		EXTERIOR RECEPT.
WATER HEATER	2250		1	50	17			18	40	1			5600		RANGE/OVEN
WATER HEATER		2250	-	-	19			20	2	-				5600	RANGE/OVEN
WALL CONSOLE FC-3	120		1	8	21			22	20	1			880		HEAT PUMP HP-3
WALL CONSOLE FC-3		120	-	-	23			24	2	-				880	HEAT PUMP HP-3
	3061	3481	WATTS/LINE										4149	8480	
PHASE A = 12251													PHASE B = 14981		

TOTAL CONNECTED =	24044 VA
+25% LOL =	[1]
TOTAL =	
CALCULATED LOAD =	97 A
MIN. FEEDER SIZE =	-

LOAD RECAP	
LIGHTING: 729 W x 1.25 =	910 W
MECHANICAL: 3600 W x 1.25 =	4500 W [5]
KITCHEN EQUIP.: 8976 W x 0.65 =	5834 W
MISC.: 8740 W x 1.0 =	8740 W
TOTAL =	20984 W
TOTAL =	97 A

[1] SEE LOAD RECAP

[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.

[5] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.

PANEL 4

MOUNTING SURFACE — MAIN 50A/2P

VOLTAGE 120/240 — PHASE 1 — WIRE 3 — AIC SYM. [2] — BUS 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B											WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
CHANDELIER	300		1	20	1			2	20	1			1280		SWITCHED RECEPT.
GROUND FLR. LTG.		125	4	1	20	3		4	20	1				1000	KITCHEN RECEPT.
BASEMENT LTG.	341		5	1	20	5		6	20	1	2		1000		KITCHEN RECEPT.
BASEMENT RECEPT.		1080		6	20	7		8	20	1				500	REFRIGERATOR
SPARE	-		-		20	9		10	20	1			1200		DISHWASHER
SPARE		-	-		20	11		12	20	1				500	DISPOSAL
SPARE	-		-		20	13		14	20	1			276		RANGE HOOD
SPACE		-	-		-	15		16	30	1	4			720	RESTRM./VEST./EXT.
SPACE	-		-		-	17		18	40	1			3600		RANGE/OVEN
EXTER. POLE LIGHTS		240	4		20	19		20	3	-				3600	RANGE/OVEN
WALL CONSOLE FC-4	120			1	5	21		22	20	1			880		HEAT PUMP HP-4
WALL CONSOLE FC-4		120		-	3	23		24	2	-				880	HEAT PUMP HP-4
	821	1565	WATTS/LINE										4076	8500	
PHASE A = 4897													PHASE B = 12565		

TOTAL CONNECTED =	17402 VA
+25% LOL =	[1]
TOTAL =	
CALCULATED LOAD =	72 A
MIN. FEEDER SIZE =	-

LOAD RECAP	
LIGHTING: 1096 W x 1.25 =	1370 W
MECHANICAL: 3600 W x 1.25 =	4500 W [5]
KITCHEN EQUIP.: 8976 W x 0.65 =	5834 W
MISC.: 5070 W x 1.0 =	5070 W
TOTAL =	17774 W
TOTAL =	74 A

[1] SEE LOAD RECAP

[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.

[5] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.

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JUNE 26, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ELECTRICAL PLANS - COTTAGE 3/4

SHEET TITLE:

E1.2

SHEET NUMBER:

LAMBERT COORDINATES:204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

LIGHTING FIXTURE SCHEDULE

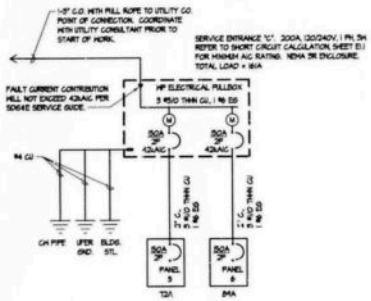
MARK	FIXTURE SYMBOL	DESCRIPTION	DIFFUSER	VOLT.	LAMP	WATTS	MOUNTING	MANUFACTURER / CATALOG NO.
A		4' LED STRIP LIGHT	ACRYLIC MED. DIFFUSE	120	3000 LUMENS 4000K	42	CEILING SURFACE	LITHONIA LIGHTING 2L2N L48 3000LM MDD MVOLT 40K 80CRI HH [1]
D		5" LED DOWNLIGHT	MATTE WHITE BAFFLE	120	600 LUMENS 2700K	11.2	CEILING RECESSED	LITHONIA LIGHTING 5EPM4 LED 27K 90CRI LSLED T24 [1]
G		10' SINGLE CIRCUIT TRACK W/6 LED FIXTURES	- -	120	440 LUMENS 2700K	50	CEILING SURFACE	LITHONIA LIGHTING (6) LTHBELL CRBL (5) LTSIOMH [1]
D		LED WALL MOUNT EXTERIOR	CLEAR WATER GLASS	120	LED 2700K	4	WALL SURF. UL WET	HINKLEY LIGHTING 'BALEY' 86OMBZDSLM-40, LED OPTION
E		LED WALL MOUNT EXTERIOR	FROSTED GLASS	120	455 LUMENS 2700K	7	WALL SURF. UL WET	MAXIM LIGHTING 55642HFBO - RADCLIFFE LED
F		FLUOR. WALL MOUNT EXTER.	FROSTED SEEDY GLASS	120	(2)4' G24 2700K	14	WALL SURF. UL WET	MAXIM LIGHTING 86081FSCF - NANTUCKET EE
G		FLUOR. WALL MOUNT EXTER.	FROSTED SEEDY GLASS	120	(2)4' G24 2700K	14	WALL SURF. UL WET	MINKA LAVERY LIGHTING 8881-A34-PL MALLORCA
H		LED WALL SCONCE	FROSTED GLASS	120	400 LUMENS 2700K	7	WALL SURFACE	AS SELECTED BY OWNER - -
P		LED POLE MOUNT EXTERIOR	FROSTED ACRYLIC	120	LED 2700K	80	10' POLE ON CONCRETE BASE	- 48 CITY ELECTRICAL MANUF. CO. ALMELB-LED80/EV/4/10-27-CRS-YT18-FAC-BC-M-GI POLE: APSCP5-M-10.00-CC-TR2.8/8.00-525/WH-GI
X1		EMERGENCY LIGHT	- -	120	(2) 6W XENON	12	WALL SURFACE	LITHONIA LIGHTING APN H BATTERY BACKUP [2]
X2		EMERGENCY LIGHT	- -	120	(2) 5.5W LED	12	WALL SURFACE	LITHONIA LIGHTING APN H EXT SYD UL WET, FORWARD THROW, BATTERY BACKUP [2]
X3		ILLUMINATED EXIT SIGN	- -	120	LED	1	WALL SURFACE	LITHONIA LIGHTING 'LQE M R SLN BATTERY BACKUP

[1] PROVIDE WITH 0-10V DRIVER

[2] INSTALL TO PROVIDE 1 FC AVG. ACROSS PATH OF EGRESS.

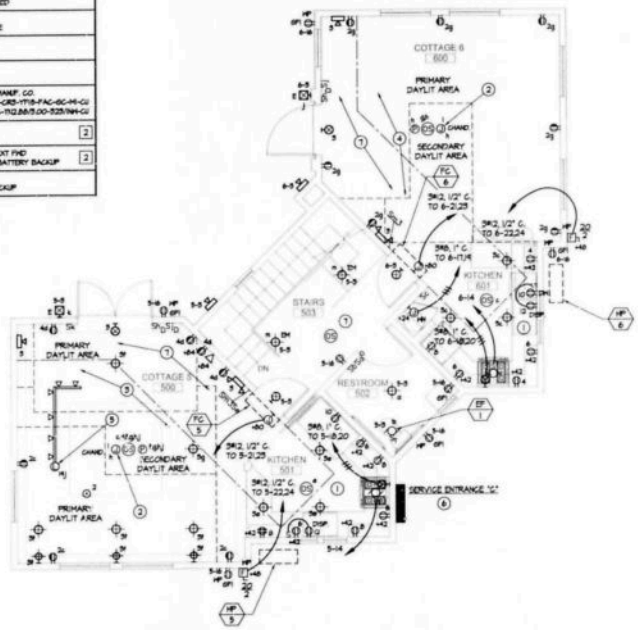
KEY NOTES

1. ALL RECEPTACLES AT KITCHEN SHALL BE GFI TYPE.
2. MOUNT ABOVE CEILING. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
3. ALL CIRCUITS IN COTTAGE 5 SHALL BE RUN TO PANEL 5 UNLESS NOTED OTHERWISE.
4. ALL CIRCUITS IN COTTAGE 6 SHALL BE RUN TO PANEL 6 UNLESS NOTED OTHERWISE.
5. PROVIDE TRACK WITH 10A (120V) CIRCUIT LIMITER.
6. SEE SINGLE LINE DIAGRAM.
7. EGRESS LIGHTING AREA OF 1 FC AVERAGE.



SERVICE ENTRANCE "C" SINGLE LINE DIAGRAM

COTTAGES 1 THRU 6 — NO SCALE

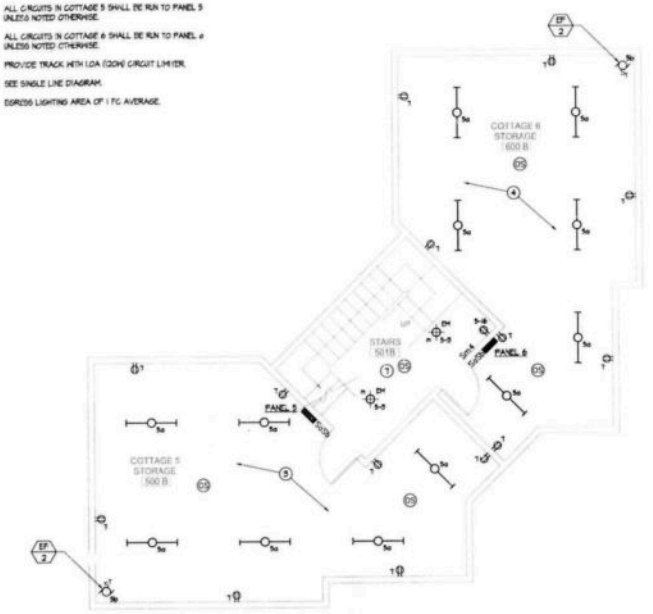


GROUND FLOOR ELECTRICAL PLAN - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE



BASEMENT ELECTRICAL PLAN - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE

PANEL 5

MOUNTING SURFACE — MAIN 150A/2P

VOLTAGE 120/240 — PHASE 1 — WIRE 3 — AIC SYM. [2] — BUS 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B										WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
CHANDELIER	500		1		20	1		2	20	4		720		COTTAGE RECEPT.
GROUND FLR. LTG.		224	HI	1	20	3		4	20	6			720	COTTAGE RECEPT.
BASEMENT LTG.	428		6	1	20	5		6	20	8	1000			KITCHEN RECEPT.
BASEMENT RECEPT.		1260	T	1	20	7		8	20	10			1000	KITCHEN RECEPT.
SPARE	-		-		20	9		10	20	12		460		REFRIGERATOR
SPARE	-	-	-		20	11		12	20	14			500	DISPOSAL
SPARE	-	-	-		20	13		14	20	16		278		RANGE HOOD
SPARE	-	-	-		20	15		16	20	18	5		400	RESTRM./VEST./EXT.
SPACE	-		-	-	-	17		18	40	20		3600		RANGE/OVEN
TRACK FIXTURES		120											3600	RANGE/OVEN
HALL CONSOLE FC-5	120				1	21		22	30	24		660		HEAT PUMP HP-5
HALL CONSOLE FC-5		120											660	HEAT PUMP HP-5
	846	724	WATTS/LINE									5256	5400	

PHASE A = 1082 — PHASE B = 10524

LOAD RECAP	
LIGHTING: 1275 W x 1.25 =	1544 H
MECHANICAL: 3600 W x 1.25 =	4500 H
KITCHEN EQUIP.: 8636 W x 0.65 =	5308 H
MISC.: 5600 W x 1.0 =	5600 H
TOTAL =	11252 H
TOTAL =	72 A

TOTAL CONNECTED = 19481 VA

+25% LOL = -

TOTAL = -

CALCULATED LOAD = 72 A

MIN. FEEDER SIZE = -

[1] SEE LOAD RECAP

[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.

[5] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.

PANEL 6

MOUNTING SURFACE — MAIN 150A/2P

VOLTAGE 120/240 — PHASE 1 — WIRE 3 — AIC SYM. [2] — BUS 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B										WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
CHANDELIER	500				1	20	1		2	20	3	1260		SWITCHED RECEPT.
GROUND FLR. LTG.		45	6		1	20	3		4	20	5		1000	KITCHEN RECEPT.
BASEMENT LTG.	474		6		1	20	5		6	20	7	1000		KITCHEN RECEPT.
BASEMENT RECEPT.		1260	T		1	20	7		8	20	9		800	REFRIGERATOR
SPARE	-					20	9		10	20	11	1200		DISHWASHER
SPARE	-	-	-			20	11		12	20	13		500	DISPOSAL
SPARE	-		-		-	20	13		14	20	15	278		RANGE HOOD
SPARE	-	-	-			20	15		16	20	17		760	EXTERIOR RECEPT.
WATER HEATER	2250				-	30	17		18	40	19	5600		RANGE/OVEN
WATER HEATER		2250			-	2	19		20	2	-		5600	RANGE/OVEN
HALL CONSOLE FC-6	120				1	8	21		22	30	1	660		HEAT PUMP HP-6
HALL CONSOLE FC-6		120			-	2	23		24	2	-		660	HEAT PUMP HP-6
	3046	5271	WATTS/LINE									9106	7640	

PHASE A = 12152 — PHASE B = 12911

LOAD RECAP	
LIGHTING: 771 W x 1.25 =	964 H
MECHANICAL: 3600 W x 1.25 =	4500 H
KITCHEN EQUIP.: 9678 W x 0.65 =	6484 H
MISC.: 6360 W x 1.0 =	6360 H
TOTAL =	22550 H
TOTAL =	94 A

TOTAL CONNECTED = 25724 VA

+25% LOL = -

TOTAL = -

CALCULATED LOAD = 94 A

MIN. FEEDER SIZE = -

[1] SEE LOAD RECAP

[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.

[5] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.

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project number 14023
No. E20868
06-30-2018
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STATE OF CALIFORNIA

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JUNE 28, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ELECTRICAL PLANS - COTTAGE 5/6

SHEET TITLE:

E1.3

SHEET NUMBER:

LAMBERT COORDINATES:204-1721 — THOMAS BROTHERS PAGE: 60, D-6 — (PSD #)

LIGHTING FIXTURE SCHEDULE

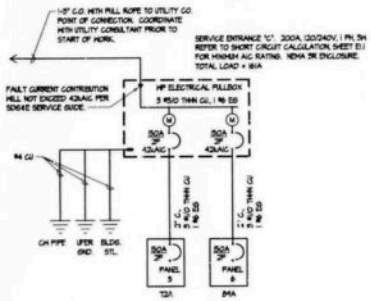
MARK	FIXTURE SYMBOL	DESCRIPTION	DIFFUSER	VOLT.	LAMP	WATTS	MOUNTING	MANUFACTURER / CATALOG NO.
A		4' LED STRIP LIGHT	ACRYLIC MED. DIFFUSE	120	3000 LUMENS 4000K	42	CEILING SURFACE	LITHONIA LIGHTING 2L2N L48 3000LM MDD MVOLT 40K 80CRI HH [1]
D		5" LED DOWNLIGHT	MATTE WHITE BAFFLE	120	600 LUMENS 2700K	11.2	CEILING RECESSED	LITHONIA LIGHTING 5EPM4 LED 27K 90CRI LSLED T24 [1]
G		10' SINGLE CIRCUIT TRACK W/6 LED FIXTURES	- -	120	440 LUMENS 2700K	50	CEILING SURFACE	LITHONIA LIGHTING (6) LTHBELL CRBL (5) LTSIOMH [1]
D		LED WALL MOUNT EXTERIOR	CLEAR WATER GLASS	120	LED 2700K	4	WALL SURF. UL WET	HINKLEY LIGHTING 'BALEY' 86OMBZDSLM-40, LED OPTION
E		LED WALL MOUNT EXTERIOR	FROSTED GLASS	120	455 LUMENS 2700K	7	WALL SURF. UL WET	MAXIM LIGHTING 55642HFBO - RADCLIFFE LED
F		FLUOR. WALL MOUNT EXTER.	FROSTED SEEDY GLASS	120	(2)4' G24 2700K	14	WALL SURF. UL WET	MAXIM LIGHTING 86081FSCF - NANTUCKET EE
G		FLUOR. WALL MOUNT EXTER.	FROSTED SEEDY GLASS	120	(2)4' G24 2700K	14	WALL SURF. UL WET	MINKA LAVERY LIGHTING 8881-A34-PL MALLORCA
H		LED WALL SCONCE	FROSTED GLASS	120	400 LUMENS 2700K	7	WALL SURFACE	AS SELECTED BY OWNER - -
P		LED POLE MOUNT EXTERIOR	FROSTED ACRYLIC	120	LED 2700K	80	10' POLE ON CONCRETE BASE	- 48 CITY ELECTRICAL MANUF. CO. ALMELB-LED80/EV/4/10-27-CRS-YT18-FAC-BC-M-GI POLE: APSCP5-M-10.00-CC-TR2.8/8.00-525/WH-GI
X1		EMERGENCY LIGHT	- -	120	(2) 6W XENON	12	WALL SURFACE	LITHONIA LIGHTING APN H BATTERY BACKUP [2]
X2		EMERGENCY LIGHT	- -	120	(2) 5.5W LED	12	WALL SURFACE	LITHONIA LIGHTING APN H EXT SYD UL WET, FORWARD THROW, BATTERY BACKUP [2]
X3		ILLUMINATED EXIT SIGN	- -	120	LED	1	WALL SURFACE	LITHONIA LIGHTING 'LQE M R SLN BATTERY BACKUP

[1] PROVIDE WITH 0-10V DRIVER

[2] INSTALL TO PROVIDE 1 FC AVG. ACROSS PATH OF EGRESS.

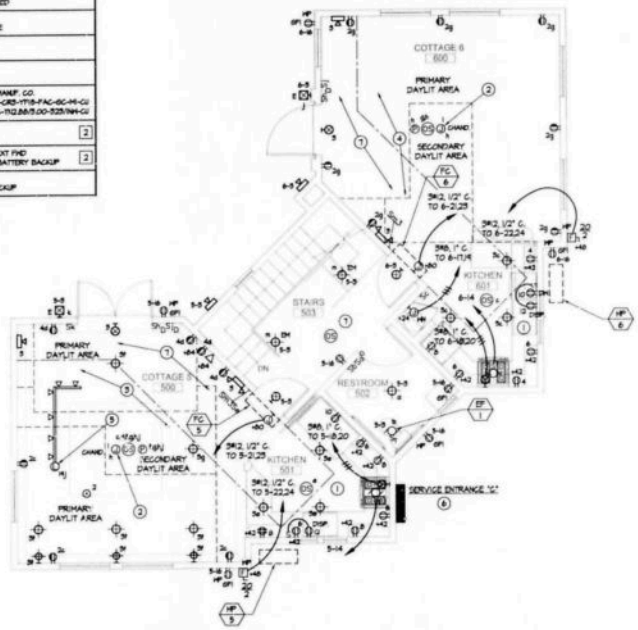
KEY NOTES

1. ALL RECEPTACLES AT KITCHEN SHALL BE GFI TYPE.
2. MOUNT ABOVE CEILING. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
3. ALL CIRCUITS IN COTTAGE 5 SHALL BE RUN TO PANEL 5 UNLESS NOTED OTHERWISE.
4. ALL CIRCUITS IN COTTAGE 6 SHALL BE RUN TO PANEL 6 UNLESS NOTED OTHERWISE.
5. PROVIDE TRACK WITH 10A (120V) CIRCUIT LIMITER.
6. SEE SINGLE LINE DIAGRAM.
7. EGRESS LIGHTING AREA OF 1 FC AVERAGE.



SERVICE ENTRANCE "C" SINGLE LINE DIAGRAM

COTTAGES 1 THRU 6 — NO SCALE

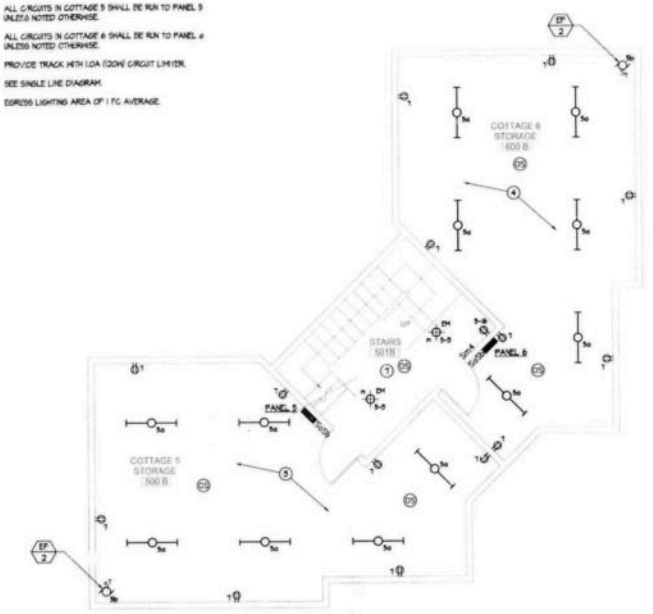


GROUND FLOOR ELECTRICAL PLAN - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE



BASEMENT ELECTRICAL PLAN - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE

PANEL 5

MOUNTING SURFACE — MAIN 150A/2P

VOLTAGE 120/240 — PHASE 1 — WIRE 3 — AIC SYM. [2] — BUS 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B										WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
CHANDELIER	500		1		20	1		2	20	4		720		COTTAGE RECEPT.
GROUND FLR. LTG.		224	HI	1	20	3		4	20	6			720	COTTAGE RECEPT.
BASEMENT LTG.	428		6	1	20	5		6	20	8	1000			KITCHEN RECEPT.
BASEMENT RECEPT.		1260	T	1	20	7		8	20	10			1000	KITCHEN RECEPT.
SPARE	-		-		20	9		10	20	12		460		REFRIGERATOR
SPARE	-	-	-		20	11		12	20	14			500	DISPOSAL
SPARE	-	-	-		20	13		14	20	16		278		RANGE HOOD
SPARE	-	-	-		20	15		16	20	18	5		400	RESTRM./VEST./EXT.
SPACE	-		-	-	-	17		18	40	20		3600		RANGE/OVEN
TRACK FIXTURES		120											3600	RANGE/OVEN
HALL CONSOLE FC-5	120				1	21		22	30	24		660		HEAT PUMP HP-5
HALL CONSOLE FC-5		120											660	HEAT PUMP HP-5
	846	724	WATTS/LINE									5256	5400	

PHASE A = 1082 — PHASE B = 10524

LOAD RECAP	
LIGHTING: 1275 W x 1.25 =	1544 H
MECHANICAL: 3600 W x 1.25 =	4500 H
KITCHEN EQUIP.: 8636 W x 0.65 =	5308 H
MISC.: 5600 W x 1.0 =	5600 H
TOTAL =	11252 H
TOTAL =	72 A

TOTAL CONNECTED = 19481 VA

+25% LOL = -

TOTAL = -

CALCULATED LOAD = 72 A

MIN. FEEDER SIZE = -

[1] SEE LOAD RECAP

[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.

[5] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.

PANEL 6

MOUNTING SURFACE — MAIN 150A/2P

VOLTAGE 120/240 — PHASE 1 — WIRE 3 — AIC SYM. [2] — BUS 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B										WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
CHANDELIER	500				1	20	1		2	20	3	1260		SWITCHED RECEPT.
GROUND FLR. LTG.		45	6		1	20	3		4	20	5		1000	KITCHEN RECEPT.
BASEMENT LTG.	474		6		1	20	5		6	20	7	1000		KITCHEN RECEPT.
BASEMENT RECEPT.		1260	T		1	20	7		8	20	9		800	REFRIGERATOR
SPARE	-					20	9		10	20	11	1200		DISHWASHER
SPARE	-	-	-			20	11		12	20	13		500	DISPOSAL
SPARE	-		-		-	20	13		14	20	15	278		RANGE HOOD
SPARE	-	-	-			20	15		16	20	17		760	EXTERIOR RECEPT.
WATER HEATER	2250				-	30	17		18	40	19	5600		RANGE/OVEN
WATER HEATER		2250			-	2	19		20	2	-		5600	RANGE/OVEN
HALL CONSOLE FC-6	120				1	8	21		22	30	1	660		HEAT PUMP HP-6
HALL CONSOLE FC-6		120			-	2	23		24	2	-		660	HEAT PUMP HP-6
	3046	5271	WATTS/LINE									9106	7640	

PHASE A = 12152 — PHASE B = 12911

LOAD RECAP	
LIGHTING: 771 W x 1.25 =	964 H
MECHANICAL: 3600 W x 1.25 =	4500 H
KITCHEN EQUIP.: 9678 W x 0.65 =	6484 H
MISC.: 6360 W x 1.0 =	6360 H
TOTAL =	22550 H
TOTAL =	94 A

TOTAL CONNECTED = 25724 VA

+25% LOL = -

TOTAL = -

CALCULATED LOAD = 94 A

MIN. FEEDER SIZE = -

[1] SEE LOAD RECAP

[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.

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JUNE 28, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ELECTRICAL PLANS - COTTAGE 5/6

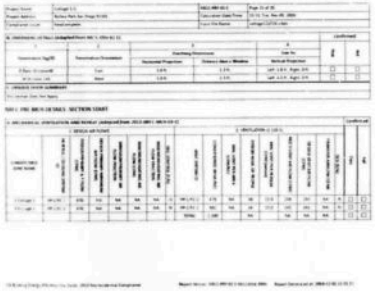
SHEET TITLE:

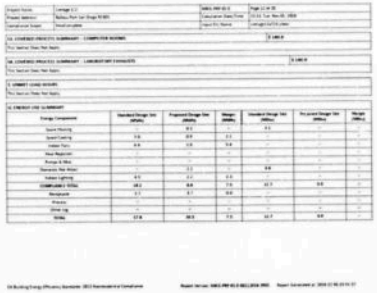
E1.3

SHEET NUMBER:

LAMBERT COORDINATES:204-1721 — THOMAS BROTHERS PAGE: 60, D-6 — (PSD #)

| PANEL 7 | | |





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JANUARY 25, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ENERGY CODE FORMS - COTTAGE 1/2

SHEET TITLE:

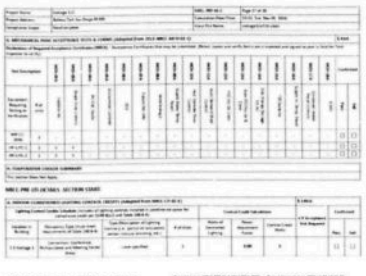
EN1.1

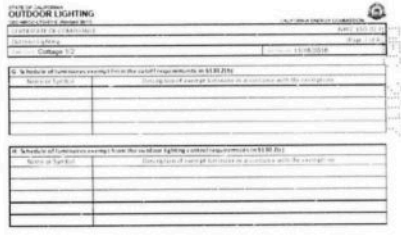
SHEET NUMBER:

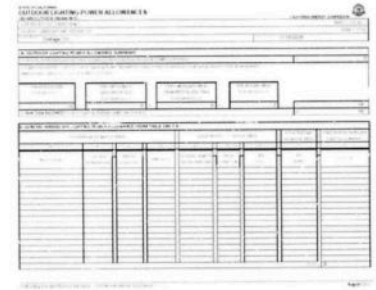
LAMBERT COORDINATES:204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)







DECEMBER 6, 2016

ENGINEERED SYSTEMS
Consulting Engineers

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HERITAGE ARCHITECTURE & PLANNING

COUNCIL DISTRICT: 3

DATE	ACTION	REFERENCE DOCUMENTS		
	SITE ACQUIRED	RESO. NO. R-	COST $:	ACRES:
	SITE DEDICATED	ORD. NO.		ACRES:
5/18/2012	GDP CONSULTANT HIRED	RESO. NO.	NAME: ESTRADA LAND PLANNING	
	P&R BOARD APPROVAL	P&R APPROVAL	DATE:	
	INITIAL DEVELOPMENT	CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.

IMPROVEMENTS SUMMARY (DATA FROM AS-BUILT DRAWINGS)

ITEM	QUANTITY	ITEM	QUANTITY	ITEM	QUANTITY	ITEM	QUANTITY
TOTAL SITE	AC.	TOT LOT	SF	PAVED WALKWAYS	SF	SECURITY LTS.	STDS.
IMPROVED AREA	AC.	MULTI-PURPOSE CT.	SF	PARK ROADS	SF	BALLFIELD LTS.	STDS.
TURF	AC.	TENNIS CTS.	SF	PARKING LOT	SF	TENNIS COURT LTS.	STDS.
SHRUB BED	AC.	RESTROOM	SF	PARKING STALLS-STD.		MULTI-PURPOSE CT. LTS.	STDS.
NATURAL	AC.	REC. BLDG.	SF	PARKING ST-ALLS-DISAELED	1	BACKSTOPS	EA.
D.G. PAVING	AC.	POOL BLDG.	SF	COURT GAME AREA	SF	BENCHES	EA.
DIRT INFIELDS	AC.	FOOL DECK	SF	LAWN EDGING	LF	PICNIC TABLES	EA.
		POOL WATER	SF	BLEACHERS	EA.	TRASH RECEPTACLES	EA.
						REVISION	

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HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ENERGY CODE FORMS - COTTAGE 1/2

EN1.2

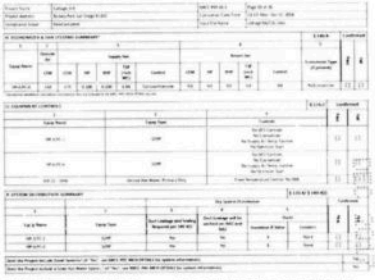
SHEET TITLE:

SHEET NUMBER:

LAMBERT COORDINATES:204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)



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JANUARY 25, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ENERGY CODE FORMS - COTTAGE 3/4

SHEET TITLE:

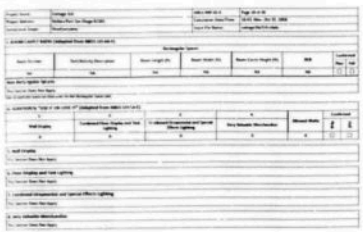
EN2.1

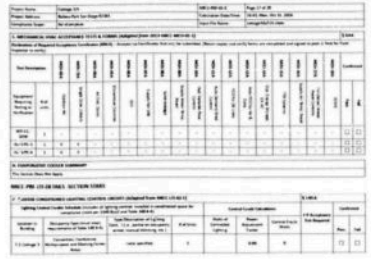
SHEET NUMBER:

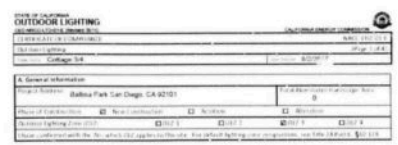
LAMBERT COORDINATES:204-1721

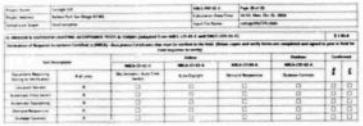
THOMAS BROTHERS PAGE: 60, D-6

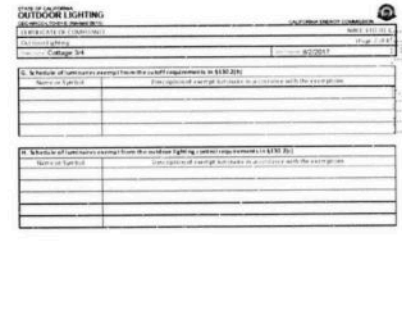
(PSD #)

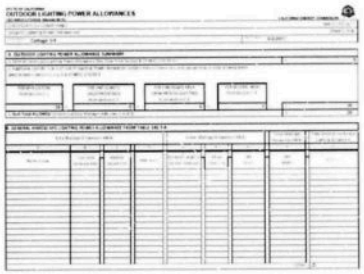












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JUNE 26, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ENERGY CODE FORMS - COTTAGE 3/4

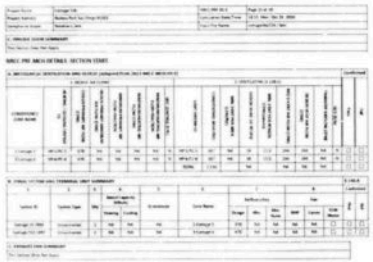
SHEET NUMBER: EN2.2

SHEET TITLE:

LAMBERT COORDINATES 204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)



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JANUARY 25, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ENERGY CODE FORMS - COTTAGE 5/6

EN3.1

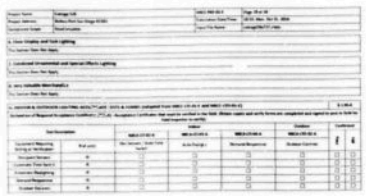
SHEET TITLE:

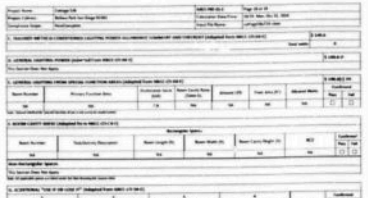
SHEET NUMBER:

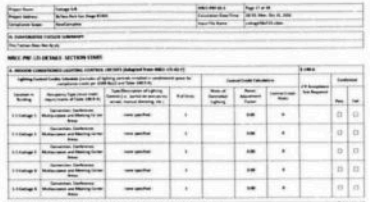
LAMBERT COORDINATES:204-1721

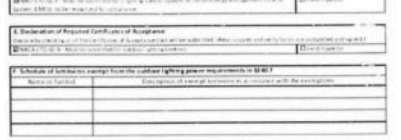
THOMAS BROTHERS PAGE: 60, D-6

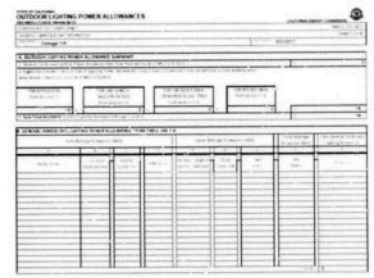
(PSD #)











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JUNE 26, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ENERGY CODE FORMS - COTTAGE 5/6

SHEET TITLE:

EN3.2

SHEET NUMBER:

LAMBERT COORDINATES:204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

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CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

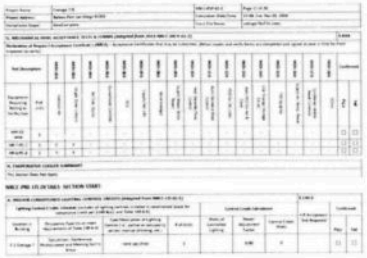
(A PORTION OF BALBOA PARK)

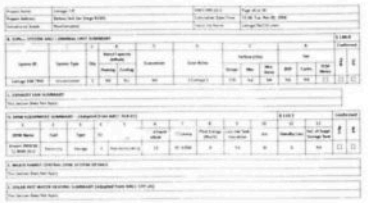
ENERGY CODE FORMS - COTTAGE 7/8

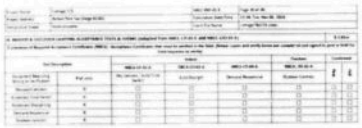
SHEET NUMBER: EN4.1

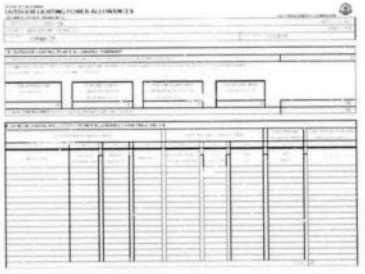
SHEET TITLE:

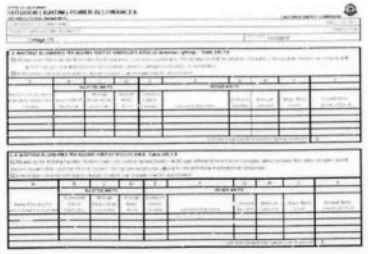
LAMBERT COORDINATES 204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)











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COUNCIL DISTRICT: 3

DATE	ACTION	REFERENCE DOCUMENTS		
	SITE ACQUIRED	RESO. NO. P-	COST $:	ACRES:
	SITE DEDICATED	ORD. NO.		ACRES:
1/18/2017	GDP CONSULTANT HIRED	RESO. NO.	NAME: ESTRADA LAND PLANNING	
	P&R BOARD APPROVAL	PF&R APPROVAL	DATE:	
	INITIAL DEVELOPMENT	CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.

IMPROVEMENTS SUMMARY (DATA FROM AS-BUILT DRAWINGS)

ITEM	QUANTITY	ITEM	QUANTITY	ITEM	QUANTITY	ITEM	QUANTITY
TOTAL SITE	AC.	TOT LOT	SF	PAVED WALKWAYS	SF	SECURITY LTS.	STDS.
IMPROVED AREA	AC.	MULTI-PURPOSE CT.	SF	PARK ROADS	SF	BALLFIELD LTS.	STDS.
TURF	AC.	TENNIS CTS.	SF	PARKING LOT	SF	TENNIS COURT LTS.	STDS.
SHRUB BED	AC.	RESTROOM	SF	PARKING STALLS-STD.		MULTI-PURPOSE CT. LTS.	STDS.
NATURAL	AC.	REC. H.DG.	SF	PARKING STALLS-DISABLED	1	BACKSTOPS	EA.
G.O. PAVING	AC.	POOL BLDG.	SF	COURT GAME AREA	SF	BENCHES	EA.
DIRT INFIELDS	AC.	POOL DECK	SF	LAWN EDGING	LF	PICNIC TABLES	EA.
		POOL WATER	SF	BLEACHERS	EA.	TRASH RECEPTACLES	EA.
						REVISION	

DECEMBER 6, 2016

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ENERGY CODE FORMS - COTTAGE 7/8

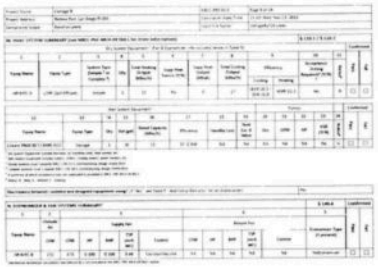
SHEET TITLE:

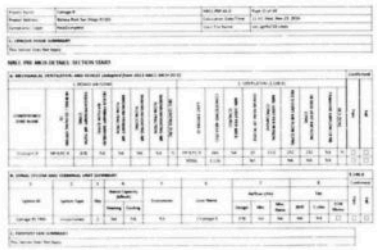
EN4.2

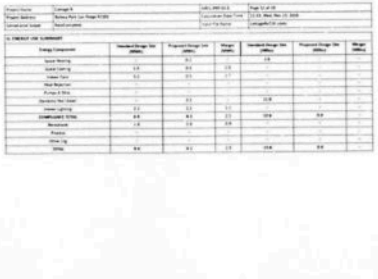
SHEET NUMBER:

LAMBERT COORDINATES:204-1721 THOMAS BROTHERS PAGE: 60, D-6

(PSD #)







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CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ENERGY CODE FORMS - COTTAGE 9

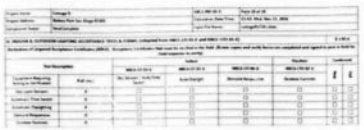
SHEET NUMBER: EN5.1

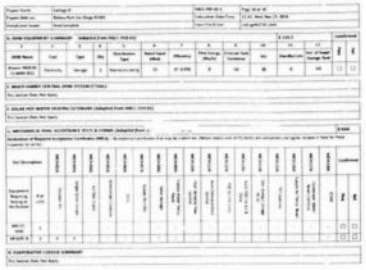
SHEET TITLE:

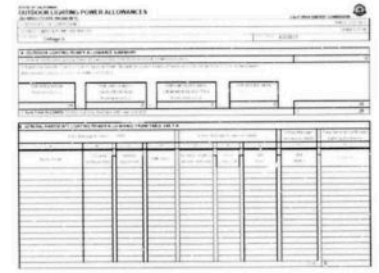
LAMBERT COORDINATES:204-1721

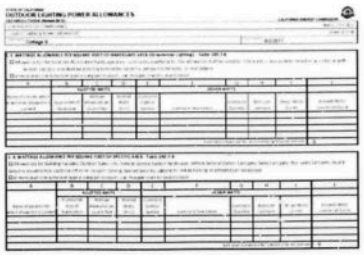
THOMAS BROTHERS PAGE: 60, D-6

(PSD #)









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JUNE 26, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ENERGY CODE FORMS - COTTAGE 9

SHEET TITLE:

EN5.2

SHEET NUMBER:

LAMBERT COORDINATES:204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

RECEIVED
DEC 2014
CITY OF SAN DIEGO
DEVELOPMENT SERVICES

Package Copy

Building/Construction Plans
Version 40
(Records)

4565805

Project

497868

Electrical Plans (+PV) (10 Cottages)
PW Address: Robert 446-5182

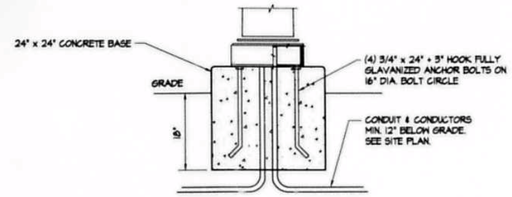
Review Cycle

Cycle #2
10/28/2014

THE CITY OF SAN DIEGO
Development Services Department
1222 First Avenue, San Diego, CA 92101-4154

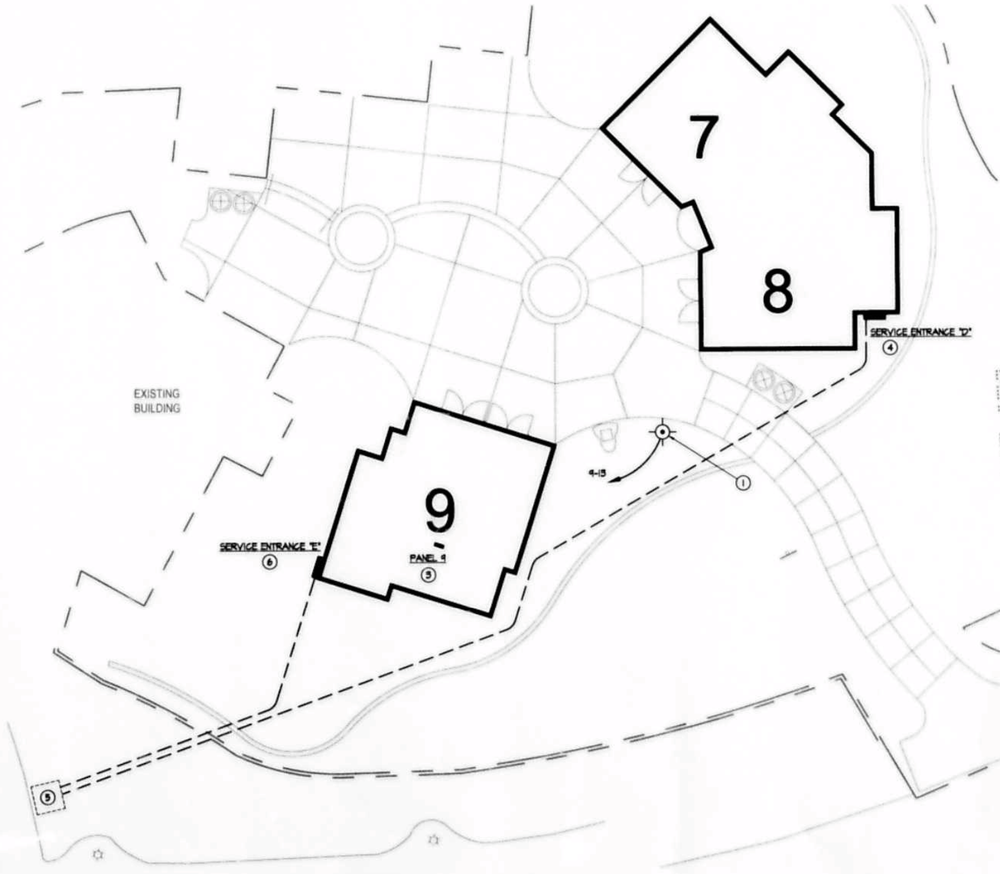
KEY NOTES

1. POLE MOUNTED LED FIXTURE "P" ON 10 FT. POLE. 11'-6" FROM FINISHED GRADE TO PHOTOMETRIC CENTER OF FIXTURE. SEE LIGHTING FIXTURE SCHEDULE, SHT. E1.3 & LIGHTING FIXTURE POLE DETAIL, THIS SHEET.
2. SEE BASEMENT ELECTRICAL PLAN - COTTAGE 3/4 & PANEL 4 SCHEDULE, SHT. E1.2.
3. SEE BASEMENT ELECTRICAL PLAN - COTTAGE 9 & PANEL 9 SCHEDULE, SHT. E1.4.
4. 200A, 120/240V, 1 PH 3W IN NEMA 3R ENCLOSURE. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFO.
5. PAD MOUNTED TRANSFORMER BY UTILITY CO.
6. 150A, 120/240V, 1 PH 3W IN NEMA 3R ENCLOSURE. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFO.

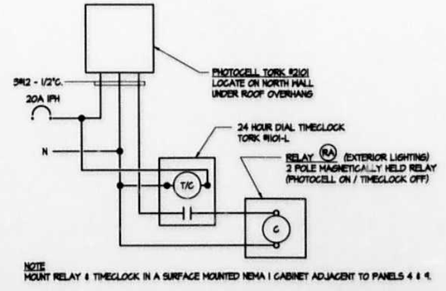


1 E0.1 | E0.1 **LIGHTING FIXTURE POLE BASE DETAIL**
NO SCALE

PARTIAL ELECTRICAL SITE PLAN - WEST
SCALE: 1/8" = 1'-0"
0 2 4 8 16 FEET



PARTIAL ELECTRICAL SITE PLAN - EAST
SCALE: 1/8" = 1'-0"
0 2 4 8 16 FEET



NOTE
MOUNT RELAY & TIMECLOCK IN A SURFACE MOUNTED NEMA 1 CABINET ADJACENT TO PANELS 4 & 9.

2 E0.1 | E0.1 **TYPICAL EXTERIOR LIGHTING CONTROL**
NO SCALE

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STATE OF CALIFORNIA

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APRIL 12, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS
INTERNATIONAL COTTAGES
(A PORTION OF BALBOA PARK)

SHEET TITLE: ELECTRICAL SITE PLANS	SHEET NUMBER: E0.1
LAMBERT COORDINATES:204-1721	THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

PANEL 1

MOUNTING SURFACE — VOLTAGE 120/240 — PHASE 1 — WIRE 3 — AIC SYM. [2] — MAIN 150A/2P — BUS 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B	LTG CKT	WIRE SIZE	BKR SIZE	CKT		CKT	BKR SIZE	WIRE SIZE	LTG CKT	WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
CHANDELIER	500			1	20	1		2	20	1		1260		SWITCHED RECEPT.
GROUND FLR. LTG.		121	10	1	20	3		4	20	2			1000	KITCHEN RECEPT.
BASEMENT LTG.	341		5	1	20	5		6	20	2		1000		KITCHEN RECEPT.
BASEMENT RECEPT.		1080	6	1	20	7		8	20				800	R. RIGERATOR
SPARE	-		-		20	9		10	20	1		1200		DISHWASHER
SPARE		-	-		20	11		12	20	1			500	DISPOSAL
SPARE	-		-		20	13		14	20	1		216		RANGE HOOD
SPARE		-	-		20	15		16	20	4			720	RESTRM./VEST./EXT.
SPACE	-		-	-	-	17		18	40	1		5600		RANGE/OVEN
SPACE		-	-	-	-	19		20	2	-			5600	RANGE/OVEN
HALL CONSOLE FC-1	120		1	15	21			22	20	1		1680		HEAT PUMP HP-1
HALL CONSOLE FC-1		120	-	2	23			24	2	-			1680	HEAT PUMP HP-1
	841	1321	WATTS/LINE									4016	8500	
PHASE A = 4857													PHASE B = 4857	

LOAD RECAP		
LIGHTING:	818 W x 1.25 =	1025 M
MECHANICAL:	3800 W x 1.25 =	4500 M [5]
KITCHEN EQUIP.:	9978 W x 0.65 =	6484 M
MISC.:	5080 W x 1.0 =	5080 M
TOTAL =		17087 M
TOTAL =		71 A

TOTAL CONNECTED = 19484 VA
+25% LOL = |||
TOTAL = |||
CALCULATED LOAD = 71 A
MIN. FEEDER SIZE = -

[1] SEE LOAD RECAP
[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.
[5] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	DUPLEX CONVENIENCE OUTLET, +15" A.F.F., U.N.O.
	DOUBLE DUPLEX CONVENIENCE OUTLET, +15" A.F.F., U.N.O.
GFI	DUPLEX OUTLET W/GROUND FAULT CIRCUIT INTERRUPTER
	1/2 SWITCHED CONVENIENCE OUTLET, +18" A.F.F., U.N.O.
	DUPLEX CONVENIENCE OUTLET, CEILING MOUNTED
	DUPLEX CONVENIENCE OUTLET, RECESSED FLOOR MOUNTED. PROVIDE BRASS COVER, FLUSH WITH FLOOR SURFACE.
	SIMPLEX CONVENIENCE OUTLET FOR EQUIPMENT. VERIFY TYPE & RATING.
J	JUNCTION BOX - WALL OR CEILING MOUNTED
S S3 S4	WALL SWITCH. SINGLE, THREE-POLE & FOUR-POLE
SaSb	DUAL SWITCH
S_O	WALL SWITCH W/OCCUPANCY SENSOR. WATT STOPPER CM-100.
S^T	THERMAL DISCONNECT SWITCH
S^D S^{D3}	DIMMER SWITCH COMPATIBLE W/LAMP SOURCE CONTROLLED SINGLE POLE & THREE-WAY
OS	OCCUPANCY SENSOR
P	PHOTOCELL - WATT STOPPER LMLS 500HT.
TS	PROGRAMMABLE MICROPROCESSOR TIME SWITCH
	DATA OUTLET BOX W/COVER & CAT. 6 CABLING
	2-GANG TELEPHONE/DATA OUTLET BOX W/COVER & CAT. 6 CABLING
	NON-FUSED DISCONNECT SWITCH
F 60/5	FUSED DISCONNECT INDICATING SWITCH SIZE AND NO. OF POLES, FUSES TO BE PER MFGR. EQUIP. NAME PLATE DATA.
	SWITCH & FUSE
	CIRCUIT BREAKER
	MOTOR CONNECTION
	CONDUIT CONCEALED IN CEILING OR WALL, 2 #12 (1 PHASE WIRE & 1 NEUTRAL WIRE) IN 1/2" CONDUIT, UNLESS NOTED OTHERWISE.
///	CONDUIT CONCEALED IN CEILING OR WALL, 3 #12 (2 PHASE WIRES & 1 NEUTRAL WIRE) IN 1/2" CONDUIT, UNLESS NOTED OTHERWISE.
WP	WEATHERPROOF
	BOUNDARY OF PRIMARY & SECONDARY DAYLIT AREAS.
	BOUNDARY OF EGRESS LIGHTING 1 FC AVERAGE

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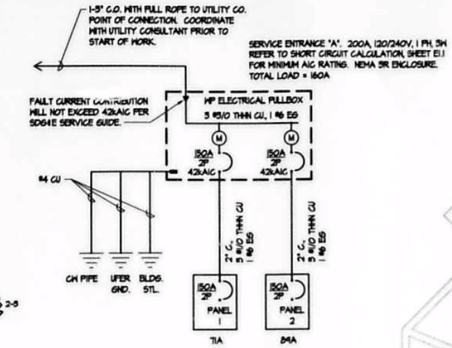
GROUND FLOOR ELECTRICAL PLAN - COTTAGE 1/2

SCALE: 1/4" = 1'-0"
0 1 2 4 8 FEET
REFERENCE

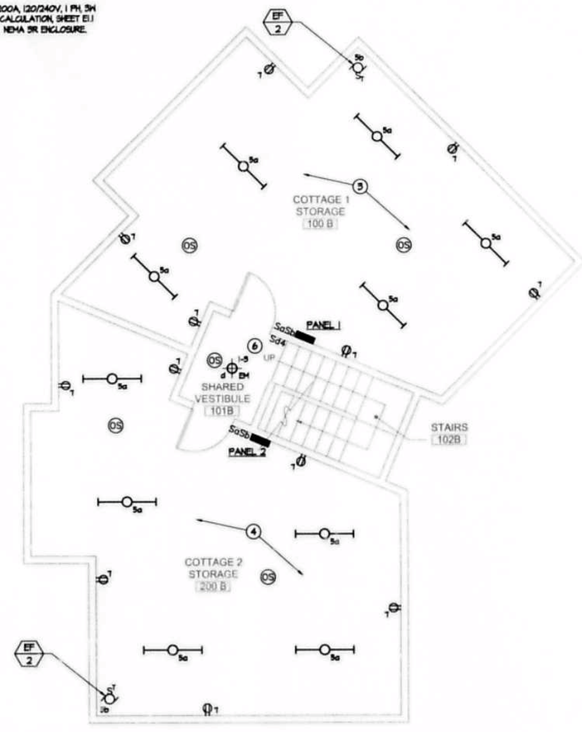


SERVICE ENTRANCE "A" SINGLE LINE DIAGRAM

COTTAGES 1 THRU 6 — NO SCALE

KEY NOTES

1. ALL RECEPTACLES AT KITCHEN SHALL BE GFI TYPE.
2. MOUNT ABOVE CEILING. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
3. ALL CIRCUITS IN COTTAGE 1 SHALL BE RUN TO PANEL 1 UNLESS NOTED OTHERWISE.
4. ALL CIRCUITS IN COTTAGE 2 SHALL BE RUN TO PANEL 2 UNLESS NOTED OTHERWISE.
5. SEE SINGLE LINE DIAGRAM.
6. EGRESS LIGHTING AREA OF 1 FC AVERAGE.



BASEMENT ELECTRICAL PLAN - COTTAGE 1/2

SCALE: 1/4" = 1'-0"
0 1 2 4 8 FEET
REFERENCE

VOLTAGE DROP CALCULATION

PROJECT: BALBOA INTERN/ TIONAL COTTAGES
SYSTEM VOLTAGE: 240
SYSTEM PHASE: 1
METRIC (Y/N): N

LOAD DESCRIPTION	NOMINAL VOLTAGE	SYSTEM PHASE	STARTING VOLTAGE	POWER FACTOR	LENGTH OF CIRCUIT IN FEET	CURRENT IN AMPS	INITIAL WIRE SIZE	INITIAL WIRE RUNS	FINAL WIRE SIZE	FINAL WIRE RUNS	INITIAL EQ GND WIRE SIZE	REQ'D GND WIRE SIZE	LINE TO NEUTRAL Y/N	MAGNETIC CONDUIT Y/N	WIRE TYPE Copper/Aluminum	VOLTS DROPPED	SINGLE RUN PERCENT	ADD % TO OTHER LOAD Y/N	ADD TO WHAT LOAD	ENDING VOLTAGE	TOTAL PERCENT DROPPED
P1	240	1	240.0	90%	35.0	120.0	1/0	1	1/0	1	6	6	N	N	C	1.1	0.45%	N		238.9	0.45%
P2	240	1	240.0	90%	35.0	120.0	1/0	1	1/0	1	6	6	N	N	C	1.1	0.45%	N		238.9	0.45%
P3	240	1	240.0	90%	30.0	120.0	1/0	1	1/0	1	6	6	N	N	C	0.9	0.38%	N		239.1	0.38%
P4	240	1	240.0	90%	45.0	120.0	1/0	1	1/0	1	6	6	N	N	C	1.4	0.57%	N		238.6	0.57%
P5	240	1	240.0	90%	30.0	120.0	1/0	1	1/0	1	6	6	N	N	C	0.9	0.38%	N		239.1	0.38%
P6	240	1	240.0	90%	30.0	120.0	1/0	1	1/0	1	6	6	N	N	C	0.9	0.38%	N		239.1	0.38%
P7	240	1	240.0	90%	40.0	120.0	1/0	1	1/0	1	6	6	N	N	C	1.2	0.51%	N		238.8	0.51%
P8	240	1	240.0	90%	35.0	120.0	1/0	1	1/0	1	6	6	N	N	C	1.1	0.45%	N		238.9	0.45%
P9	240	1	240.0	90%	35.0	120.0	1/0	1	1/0	1	6	6	N	N	C	1.1	0.45%	N		238.9	0.45%

SHORT CIRCUIT CALCULATION

Project: Balboa International Cottages -
LENGTHS SHOWN ARE FOR CALCULATION PURPOSES ONLY. NOT FOR BIDDING.
SYSTEM VOLTAGE: 240 PHASE: 1

PANEL OR FAULT LOCATON	CONTINUED Y/N	FROM	CALC L-L/L-N	RFMR (Y/N)	ISC AT START	TRANSFORMER PROPERTIES KVA	PRI VOLT	SEC VOLT	IMPED %	WIRE MATERIALS SIZE	QTY/PH	WIRE	CONDUIT	CABLE	VOLTS	PHASE	LENGTH	MOTOR FLA	MIN. Isc RATING
UTILITY			L-L																42,000A
SERVICE A	Y	UTILITY	L-L	N	42,000A	-	-	-	-	3/0	1	CU	N	N	240	1	0.00		42,000A
P1	Y	SERVICE A	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	35.00	19A	18,220A
P2	Y	SERVICE A	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	35.00	19A	18,220A
											-				-				
SERVICE B	Y	UTILITY	L-L	N	42,000A	-	-	-	-	3/0	1	CU	N	N	240	1	0.00		42,000A
P3	Y	SERVICE B	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	30.00	19A	19,822A
P4	Y	SERVICE B	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	45.00	19A	15,667A
											-				-				
SERVICE C	Y	UTILITY	L-L	N	42,000A	-	-	-	-	3/0	1	CU	N	N	240	1	0.00		42,000A
P5	Y	SERVICE C	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	30.00	19A	19,822A
P9	Y	SERVICE C	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	30.00	19A	19,822A
											-				-				
SERVICE D	Y	UTILITY	L-L	N	42,000A	-	-	-	-	3/0	1	CU	N	N	240	1	0.00		42,000A
P7	Y	SERVICE D	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	40.00	19A	16,858A
P8	Y	SERVICE D	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	35.00	19A	18,220A
											-				-				
SERVICE E	Y	UTILITY	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	0.00		42,000A
P9	Y	SERVICE E	L-L	N	42,000A	-	-	-	-	1/0	1	CU	N	N	240	1	35.00	19A	18,220A
											-				-				

PANEL 2

MOUNTING SURFACE — VOLTAGE 120/240 — PHASE 1 — WIRE 3 — AIC SYM. [2] — MAIN 150A/2P — BUS 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B	LTG CKT	WIRE SIZE	BKR SIZE	CKT		CKT	BKR SIZE	WIRE SIZE	LTG CKT	WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
CHANDELIER	500			1	20	1		2	20	1		1260		SWITCHED RECEPT.
GROUND FLR. LTG.		33	5	1	20	3		4	20	2			1000	KITCHEN RECEPT.
BASEMENT LTG.	341		5	1	20	5		6	20	2		1000		KITCHEN RECEPT.
BASEMENT RECEPT.		1080	6	1	20	7		8	20				800	REFRIGERATOR
SPARE	-		-		20	9		10	20	1		1200		DISHWASHER
SPARE		-	-		20	11		12	20	1			500	DISPOSAL
SPARE	-		-		20	13		14	20	1		216		RANGE HOOD
SPARE		-	-		20	15		16	20	2			360	EXTERIOR RECEPT.
WATER HEATER	2250		1	30	17			18	40	1		5600		RANGE/OVEN
WATER HEATER		225	-	2	19			20	2	-			5600	RANGE/OVEN
HALL CONSOLE FC-2	120		1	15	21			22	20	1		1680		HEAT PUMP HP-2
HALL CONSOLE FC-2		120	-	2	23			24	2	-			1680	HEAT PUMP HP-2
	3081	5483	WATTS/LINE									4016	8500	
PHASE A = 12071													PHASE B = 11185	

TOTAL CONNECTED = 25860 VA
+25% LOL = |||
TOTAL = |||
CALCULATED LOAD = 84 A
MIN. FEEDER SIZE = -

LOAD RECAP		
LIGHTING:	724 W x 1.25 =	905 M
MECHANICAL:	3600 W x 1.25 =	4500 M [5]
KITCHEN EQUIP.:	9978 W x 0.65 =	6484 M
MISC.:	9580 W x 1.0 =	9580 M
TOTAL =		21449 M
TOTAL =		84 A

[1] SEE LOAD RECAP
[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.
[5] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.

JUNE 26, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ELECTRICAL PLANS - COTTAGE 1/2

SHEET TITLE:

E1.1
SHEET NUMBER:

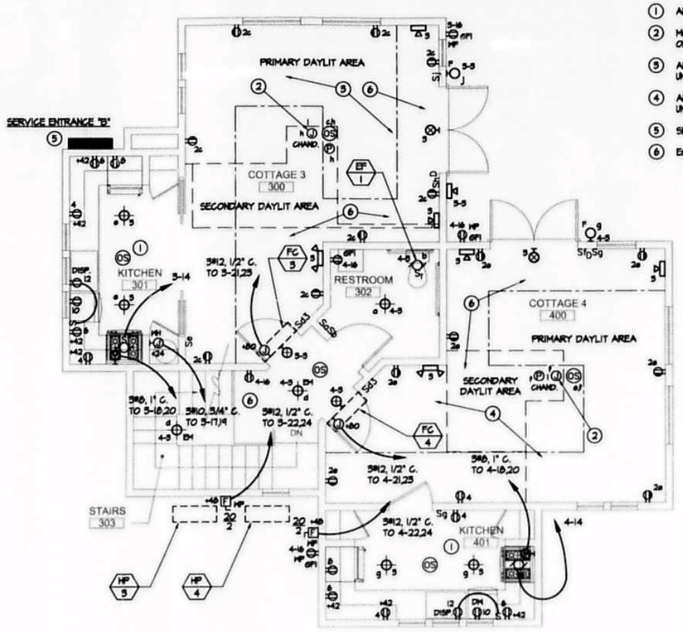
LAMBERT COORDINATES: 204-1721 — THOMAS BROTHERS PAGE: 60, D-6 — (PSD #)

GENERAL NOTES

1. ALL DEVICES, CONDUIT, FIXTURES ARE NEW UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT, WHETHER INDICATED ON DRAWINGS OR NOT.
3. CONTRACTOR SHALL VISIT SITE TO VERIFY ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS (OR HER) BID.
4. CONFIRM ALL P.O.C. REQUIREMENTS WITH EQUIPMENT SUPPLIER INCLUDING NEMA CONFIGURATION, NATURE OF CONNECTION, MOUNTING, HEIGHT, ETC.
5. SAWCUT CONCRETE FOR DEVICES WHERE REQUIRED. RUN TO NEAREST WALL & RISE TO ACCESSIBLE ATTIC SPACE WHERE APPLICABLE. CONFIRM ROUTING OF ALL FEEDERS WITH OWNER'S REPRESENTATIVE.
6. COORDINATE ALL NEW SERVICE REQUIREMENTS WITH SAN DIEGO GAS & ELECTRIC CO.
7. CONFIRM ALL SWITCH LOCATIONS WITH ARCHITECT PRIOR TO ROUGHING-IN BOXES.
8. ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH 2013 CALIFORNIA ELECTRICAL CODE, CALGREEN & ALL LOCAL ORDINANCES.
9. VERIFY EXACT LOCATIONS OF JUNCTION BOXES, SWITCHES, LIGHTS, PANELS, TELEPHONE OUTLETS, STUB OUTS & OTHER EQUIPMENT WITH THE OWNER.
10. ALL CONDUITS, JUNCTION BOXES & OUTLET BOXES SHALL BE FLUSH UNLESS NOTED OTHERWISE.
11. RECEPTACLE UNITS SHALL BE INSTALLED AT THE HEIGHTS NOTED.
12. WIRING CONDUCTORS SHALL BE AWG CU WITH INSULATION TYPE THHN OR THWN. MINIMUM 12 AWG. ALL WIRING TO BE COLOR CODED PER N.E.C. ALL WIRING TO BE RUN IN METAL RACEWAYS. BX CABLE OR ROMEX ARE NOT ALLOWED.
13. ALL WIRE RUNS REQUIRE THE USE OF AN EQUIPMENT GROUNDING CONDUCTOR.
14. ALL CONDUIT TO BE GALVANIZED STEEL WITH WATERTIGHT FITTINGS WHERE REQUIRED BY CODE.
15. ALL MATERIALS SHALL BE NEW & BEAR UNDERWRITERS LAB. & UNION LABELS WHERE SUCH LABELS APPLY.
16. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER.
17. HIGH EFFICACY LUMINAIRES OTHER THAN OUTDOOR HID SHALL CONTAIN ONLY HIGH EFFICACY LAMPS AS OUTLINED IN CEC TABLE 150-C, & DO NOT CONTAIN A MEDIUM SCREW BASE SOCKET. BALLASTS FOR LAMPS 13W OR GREATER ARE ELECTRIC & HAVE AN OUTPUT FREQUENCY OF NO LESS THAN 20 kHz.
18. HIGH EFFICACY LUMINAIRES - OUTDOOR HID SHALL CONTAIN ONLY HIGH EFFICACY LAMPS AS OUTLINED IN CEC TABLE 150-C. LUMINAIRE SHALL HAVE FACTORY INSTALLED HID BALLAST.
19. PERMANENTLY INSTALLED LUMINAIRES IN KITCHENS SHALL BE HIGH EFFICACY LUMINAIRES. UP TO 50% OF THE WATTAGE, AS DETERMINED IN CEC SECTION 130(c) OF PERMANENTLY INSTALLED LUMINAIRES MAY BE IN LUMINAIRES THAT ARE NOT HIGH EFFICACY LUMINAIRES, PROVIDED THESE LUMINAIRES ARE CONTROLLED BY SWITCHES SEPARATE FROM THOSE CONTROLLING THE HIGH EFFICACY LUMINAIRES.
20. PERMANENTLY INSTALLED LUMINAIRES IN BATHROOMS, GARAGES, LAUNDRY ROOMS & UTILITY ROOMS SHALL BE HIGH EFFICACY LUMINAIRES OR CONTROLLED BY AN OCCUPANT SENSOR CERTIFIED TO COMPLY WITH CEC SECTION 119(d).
21. PERMANENTLY INSTALLED LUMINAIRES LOCATED OTHER THAN IN KITCHENS, BATHROOMS, GARAGES, LAUNDRY ROOMS & UTILITY ROOMS SHALL BE HIGH EFFICACY LUMINAIRES (EXCEPT CLOSETS LESS THAN 70 SQ.FT.) OR ARE CONTROLLED BY A DIMMER SWITCH, OR ARE CONTROLLED BY AN OCCUPANCY SENSOR CERTIFIED TO COMPLY WITH CEC SECTION 119(d) THAT DOES NOT TURN ON AUTOMATICALLY OR HAVE AN ALWAYS ON OPTION.
22. LUMINAIRES THAT ARE RECESSED INTO INSULATED CEILINGS SHALL BE APPROVED FOR ZERO CLEARANCE INSULATION COVER (IC) AND ARE CERTIFIED TO ASTM E283 AND LABELED AS AIR TIGHT (AT) TO LESS THAN 2.0 CFM AT 75 PASCALS.
23. PROVIDE A MINIMUM OF 1 FC AT FLOOR LEVEL ON EGRESS PATHWAY.
24. PROVIDE ARC-FLASH LABEL FOR SAFE WORK REQUIREMENT IN ACCORDANCE WITH NFPA 70E TABLE 130.7(C)(15)(A)(b) AND NFPA 70E TABLE 130.7(C)(16).

KEY NOTES

1. ALL RECEPTACLES AT KITCHEN SHALL BE GFI TYPE.
2. MOUNT ABOVE CEILING. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
3. ALL CIRCUITS IN COTTAGE 3 SHALL BE RUN TO PANEL 3 UNLESS NOTED OTHERWISE.
4. ALL CIRCUITS IN COTTAGE 4 SHALL BE RUN TO PANEL 4 UNLESS NOTED OTHERWISE.
5. SEE SINGLE LINE DIAGRAM.
6. EGRESS LIGHTING AREA OF 1 FC AVERAGE.

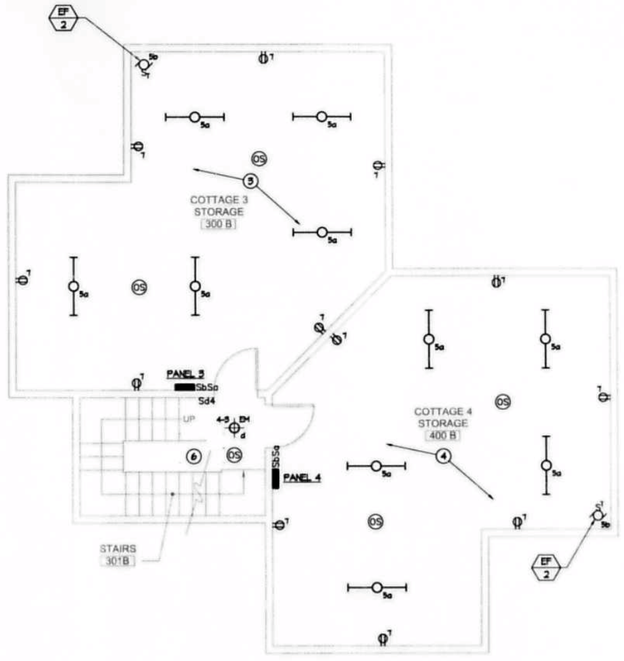


GROUND FLOOR ELECTRICAL PLAN - COTTAGE 3/4

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE

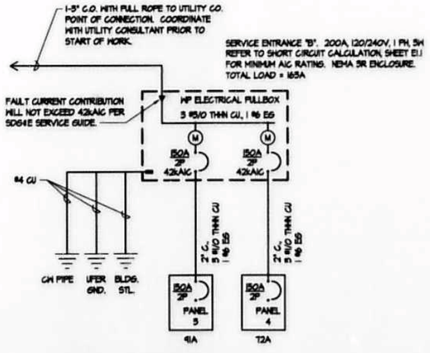


BASEMENT ELECTRICAL PLAN - COTTAGE 3/4

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE



SERVICE ENTRANCE "B" SINGLE LINE DIAGRAM

COTTAGES 1 THRU 6 NO SCALE

PANEL 3 — MOUNTING: SURFACE — VOLTAGE: 120/240 — PHASE: 1 — WIRE: 3 — AIC SYM.: [2] — MAIN: 150A/2P — BUS: 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B	LOAD CALC	CKT		CKT	LOAD CALC	WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
CHANDELIER	500		1	1	20	2	20	8	1440	SWITCHED RECEPT.
GROUND FLR. LTG.		571	5	3	20	4	20	2	1000	KITCHEN RECEPT.
BASEMENT LTG.	341		5	5	20	6	20	2	1000	KITCHEN RECEPT.
BASEMENT RECEPT.		1080	6	7	20	8	20	1	800	REFRIGERATOR
SPARE	-		-	9	20	10	20	1	1200	DISHWASHER
SPARE		-	-	11	20	12	20	1	500	DISPOSAL
SPARE	-		-	13	20	14	20	1	216	RANGE HOOD
SPARE		-	-	15	20	16	20	3	540	EXTERIOR RECEPT.
WATER HEATER	2250		1	17	30	18	40	1	3600	RANGE/OVEN
WATER HEATER			2	19		20	2	-	3600	RANGE/OVEN
WALL CONSOLE FC-3	120		1	21	15	22	20	1	1680	HEAT PUMP HP-3
WALL CONSOLE FC-3		120	-	23	2	24	2	-	1680	HEAT PUMP HP-3
	5061	5481	WATTS/LINE					4146	8480	

PHASE A = 12257 — PHASE B = 11987

TOTAL CONNECTED =	34044 VA
+25% LOL =	
TOTAL =	
CALCULATED LOAD =	98 A
MIN. FEEDER SIZE =	-

[1] SEE LOAD RECAP

[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.

[3] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.

LOAD RECAP

LIGHTING:	728 W x 1.25 =	910 W
MECHANICAL:	3600 W x 1.25 =	4500 W
KITCHEN EQUIP.:	8978 W x 0.65 =	5836 W
MISC.:	9740 W x 1.0 =	9740 W
TOTAL =		21816 W
TOTAL =		91 A

[3]

PANEL 4 — MOUNTING: SURFACE — VOLTAGE: 120/240 — PHASE: 1 — WIRE: 3 — AIC SYM.: [2] — MAIN: 150A/2P — BUS: 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B	LOAD CALC	CKT		CKT	LOAD CALC	WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
CHANDELIER	500		1	1	20	2	20	7	1260	SWITCHED RECEPT.
GROUND FLR. LTG.		125	1	3	20	4	20	3	1000	KITCHEN RECEPT.
BASEMENT LTG.	341		3	5	20	6	20	2	1000	KITCHEN RECEPT.
BASEMENT RECEPT.		1080	6	7	20	8	20	1	800	REFRIGERATOR
SPARE	-		-	9	20	10	20	1	1200	DISHWASHER
SPARE		-	-	11	20	12	20	1	500	DISPOSAL
SPARE	-		-	13	20	14	20	1	216	RANGE HOOD
SPACE		-	-	15	-	16	30	4	720	RESTRM./VEST./EXT.
SPACE	-		-	17	-	18	40	1	3600	RANGE/OVEN
EXTER. POLE LIGHTS		240	1	19	20	20	2	-	3600	RANGE/OVEN
WALL CONSOLE FC-4	120		1	21	15	22	20	1	1680	HEAT PUMP HP-4
WALL CONSOLE FC-4		120	-	23	2	24	2	-	1680	HEAT PUMP HP-4
	821	1565	WATTS/LINE					4016	8500	

PHASE A = 4837 — PHASE B = 4965

TOTAL CONNECTED =	19702 VA
+25% LOL =	
TOTAL =	
CALCULATED LOAD =	72 A
MIN. FEEDER SIZE =	-

[1] SEE LOAD RECAP

[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.

[3] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.

LOAD RECAP

LIGHTING:	1056 W x 1.25 =	1320 W
MECHANICAL:	3600 W x 1.25 =	4500 W
KITCHEN EQUIP.:	8978 W x 0.65 =	5836 W
MISC.:	5070 W x 1.0 =	5070 W
TOTAL =		19734 W
TOTAL =		72 A

[3]

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JUNE 26, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: ELECTRICAL PLANS - COTTAGE 3/4

SHEET NUMBER: E1.2

LAMBERT COORDINATES: 204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

LIGHTING FIXTURE SCHEDULE

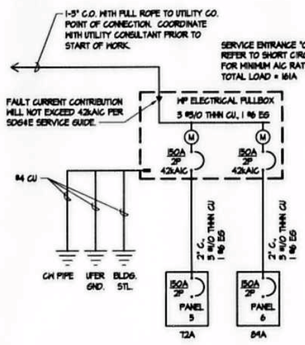
MARK	FIXTURE SYMBOL	DESCRIPTION	DIFFUSER	VOLT.	LAMP	WATTS	MOUNTING	MANUFACTURER / CATALOG NO.
A		4' LED STRIP LIGHT	ACRYLIC MED. DIFFUSE	120	5000 LUMENS 4000K	42	CEILING SURFACE	LITHONIA LIGHTING ZL2N L48 5000LM MDD MVOLT 40K 80CRI HH [1]
B		5" LED DOWNLIGHT	MATTE WHITE BAFFLE	120	600 LUMENS 2700K	11.2	CEILING RECESSED	LITHONIA LIGHTING 5BFMM LED 27K 90CRI LSLED T24 [1]
C		10' SINGLE CIRCUIT TRACK W/6 LED FIXTURES	- -	120	440 LUMENS 2700K	50	CEILING SURFACE	LITHONIA LIGHTING (6) LITHBELL ORB, (1) LTSIOMM
D		LED WALL MOUNT EXTERIOR	CLEAR WATER GLASS	120	LED 2700K	9	WALL SURF. UL WET	HINKLEY LIGHTING RALEY 1800MD/DSLM-40, LED OPTION
E		LED WALL MOUNT EXTERIOR	FROSTED GLASS	120	455 LUMENS 2700K	7	WALL SURF. UL WET	MAXIM LIGHTING 55642MFBO - RADCLIFFE LED
F		FLUOR. WALL MOUNT EXTER.	FROSTED SEEDY GLASS	120	13W GU24 2700K	14	WALL SURF. UL WET	MAXIM LIGHTING 86081FSCF - NANTUCKET EE
G		FLUOR. WALL MOUNT EXTER.	FROSTED SEEDY GLASS	120	13W GU24 2700K	14	WALL SURF. UL WET	MINKA LAVERY LIGHTING 8881-A54-PL MALLORCA
H		LED WALL SCONCE	FROSTED GLASS	120	400 LUMENS 2700K	7	WALL SURFACE	AS SELECTED BY OWNER -
P		LED POLE MOUNT EXTERIOR	FROSTED ACRYLIC	120	LED 2700K	60	10' POLE ON CONCRETE BASE	SPRING CITY ELECTRICAL MANUF. CO. ALMBLB-LED60/EV4/X3-3T-CR3-YP18-FAC-BC-MI-CU POLE: AP5CP5-M-10.00-CC-TK2.88/5.00-525/MM-CU
X1		EMERGENCY LIGHT	- -	120	(2) 6W XENON	13	WALL SURFACE	LITHONIA LIGHTING APN M, BATTERY BACKUP [2]
X2		EMERGENCY LIGHT	- -	120	(2) 3.5W LED	13	WALL SURFACE	LITHONIA LIGHTING APN M EXT FHD UL WET, FORWARD THROW, BATTERY BACKUP [2]
X3		ILLUMINATED EXIT SIGN	- -	120	LED	1	WALL SURFACE	LITHONIA LIGHTING TLE MI R ELN, BATTERY BACKUP

[1] PROVIDE WITH 0-10V DRIVER

[2] INSTALL TO PROVIDE 1 FC AVG. ACROSS PATH OF EGRESS.

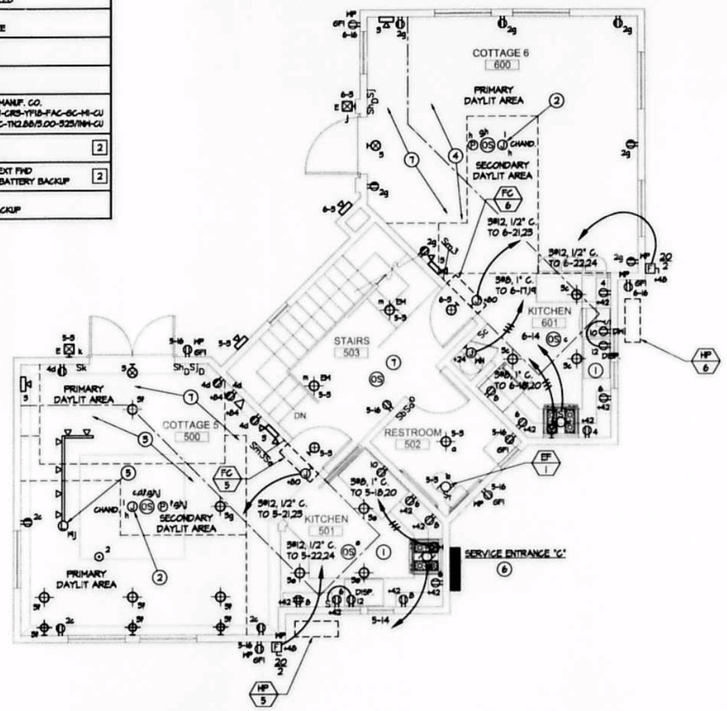
KEY NOTES

1. ALL RECEPTACLES AT KITCHEN SHALL BE GFI TYPE.
2. MOUNT ABOVE CEILING. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
3. ALL CIRCUITS IN COTTAGE 5 SHALL BE RUN TO PANEL 5 UNLESS NOTED OTHERWISE.
4. ALL CIRCUITS IN COTTAGE 6 SHALL BE RUN TO PANEL 6 UNLESS NOTED OTHERWISE.
5. PROVIDE TRACK WITH 1.0A (120W) CIRCUIT LIMITER.
6. SEE SINGLE LINE DIAGRAM.
7. EGRESS LIGHTING AREA OF 1 FC AVERAGE.



SERVICE ENTRANCE 'C' SINGLE LINE DIAGRAM

COTTAGES 1 THRU 6 — NO SCALE

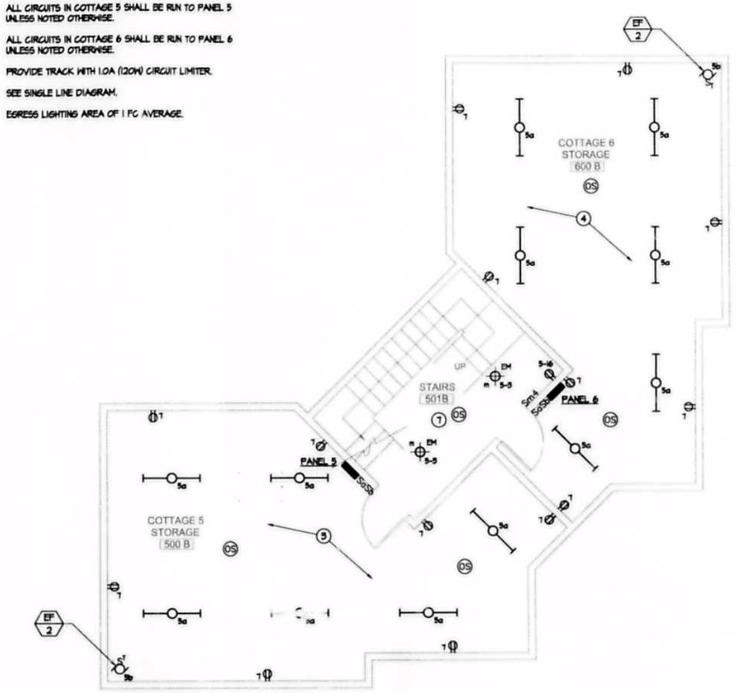


GROUND FLOOR ELECTRICAL PLAN - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE



BASEMENT ELECTRICAL PLAN - COTTAGE 5/6

SCALE: 1/4" = 1'-0"

0 1 2 4 8 FEET

REFERENCE

PANEL 5 — MOUNTING SURFACE — MAIN 150A/2P — VOLTAGE 120/240 — PHASE 1 — WIRE 3 — AIC SYM. [2] — BUS 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B	LOAD	BRKR	WIRE	CKT		CKT	WIRE	BRKR	LOAD	WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
CHANDELIER	500			1	20	1		2	20	1		720		COTTAGE RECEPT.
GROUND FLR. LTG.		224	M	1	20	3		4	20	1			720	COTTAGE RECEPT.
BASEMENT LTG.	428		6	1	20	5		6	20	1		1000		KITCHEN RECEPT.
BASEMENT RECEPT.		1260	T	1	20	7		8	20	1			1000	KITCHEN RECEPT.
SPARE	-			-	20	9		10	20	1		960		REFRIGERATOR
SPARE		-		-	20	11		12	20	1			500	DISPOSAL
SPARE	-			-	20	13		14	20	1		276		RANGE HOOD
SPARE		-		-	20	15		16	20	1	5		400	RESTRM./VEST./EXT.
SPARE	-			-	-	17		18	40	1		5600		RANGE/OVEN
TRACK FIXTURES		120		1	20	19		20	2	-			5600	RANGE/OVEN
HALL CONSOLE FC-5	120			1	15	21		22	30	1		1650		HEAT PUMP HP-5
HALL CONSOLE FC-5		120		-	2	23		24	2	-			1650	HEAT PUMP HP-5
	848	1124		WATTS/LINE								8256	8400	
PHASE A = 4082														PHASE B = 10524

TOTAL CONNECTED = 1441 VA
+25% LCL = [ ]
TOTAL =
CALCULATED LOAD = 12 A
MIN. FEEDER SIZE = -

LOAD RECAP

LIGHTING: 1075 W x 1.25 =	1344 M
MECHANICAL: 3600 W x 1.25 =	4500 M
KITCHEN EQUIP.: 6936 W x 0.85 =	5898 M
MISC.: 5600 W x 1.0 =	5600 M
TOTAL =	17282 M
TOTAL =	72 A

[5]

[1] SEE LOAD RECAP

[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.

[5] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.

PANEL 6 — MOUNTING SURFACE — MAIN 150A/2P — VOLTAGE 120/240 — PHASE 1 — WIRE 3 — AIC SYM. [2] — BUS 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B	LOAD	BRKR	WIRE	CKT		CKT	WIRE	BRKR	LOAD	WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
CHANDELIER	500			1	20	1		2	20	1		1280		SWITCHED RECEPT.
GROUND FLR. LTG.		48	6	1	20	3		4	20	2			1000	KITCHEN RECEPT.
BASEMENT LTG.	428		6	1	20	5		6	20	2		1000		KITCHEN RECEPT.
BASEMENT RECEPT.		1260	T	1	20	7		8	20	1			800	REFRIGERATOR
SPARE	-			-	20	9		10	20	1		1200		DISHWASHER
SPARE		-		-	20	11		12	20	1			500	DISPOSAL
SPARE	-			-	20	13		14	20	1		276		RANGE HOOD
SPARE		-		-	20	15		16	20	1	2		360	EXTERIOR RECEPT.
WATER HEATER	2250			1	30	17		18	40	1		5600		RANGE/OVEN
WATER HEATER		2250		-	2	19		20	2	-			5600	RANGE/OVEN
HALL CONSOLE FC-6	120			1	15	21		22	20	1		1650		HEAT PUMP HP-6
HALL CONSOLE FC-6		120		-	2	23		24	2	-			1650	HEAT PUMP HP-6
	3048	3677		WATTS/LINE								4018	7410	
PHASE A = 7212														PHASE B = 11811

TOTAL CONNECTED = 25124 VA
+25% LCL = [ ]
TOTAL =
CALCULATED LOAD = 84 A
MIN. FEEDER SIZE = -

LOAD RECAP

LIGHTING: 771 W x 1.25 =	964 M
MECHANICAL: 3600 W x 1.25 =	4500 M
KITCHEN EQUIP.: 9978 W x 0.65 =	6484 M
MISC.: 9382 W x 1.0 =	9382 M
TOTAL =	21330 M
TOTAL =	84 A

[5]

[1] SEE LOAD RECAP

[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.

[5] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.

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JUNE 26, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ELECTRICAL PLANS - COTTAGE 5/6

SHEET TITLE:

E1.3

SHEET NUMBER:

LAMBERT COORDINATES:204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

PANEL 7

MOUNTING SURFACE — VOLTAGE 120/240 — PHASE 1 — WIRE 3 — AIC SYM. [2] — MAIN 150A/2P — BUS 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B	LOAD CLASS	WIRE SIZE	BREAKER AMPS			CKT #	CKT #		BREAKER AMPS	WIRE SIZE	LOAD CLASS	WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
SPARE	-			-	20	1		2	20		20	7		1260		SWITCHED RECEPT.
GROUND FLR. LTG.		44	6		20	3		4	20		20	9			1000	KITCHEN RECEPT.
BASEMENT LTG.	341		5	1	20	5		6	20		20	2		1000		KITCHEN RECEPT.
BASEMENT RECEPT.		1080	6		20	7		8	20		1				800	REFRIGERATOR
SPARE	-			-	20	9		10	20		1			1200		DISHWASHER
SPARE		-		-	20	11		12	20		1				500	DISPOSAL
SPARE	-			-	20	13		14	20	1				216		RANGE HOOD
WASHER		600		1	20	15		16	20	2					360	EXTERIOR RECEPT.
DRYER	2500			1	30	17		18	40					5600		RANGE/OVEN
DRYER		2500		-	2	19		20	2	-					5600	RANGE/OVEN
WALL CONSOLE FC-1	120			1	15	21		22	20	1				1680		HEAT PUMP HP-1
WALL CONSOLE FC-1		120		-	2	23		24	2	-					1680	HEAT PUMP HP-1
	3011	4844			WATTS/LINE									9016	7940	

PHASE A = 12027 — PHASE B = 12284

TOTAL CONNECTED =	24511
+25% LCL =	
TOTAL =	
CALCULATED LOAD =	98 A
MIN. FEEDER SIZE =	-

LOAD RECAP		
LIGHTING:	435 W x 1.25 =	544 H
MECHANICAL:	3600 W x 1.25 =	4500 H [5]
KITCHEN EQUIP.:	8978 W x 0.65 =	5484 H
MISC.:	10300 W x 1.0 =	10300 H
TOTAL =		20828 H
TOTAL =		98 A

[1] SEE LOAD RECAP

[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.

[5] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.

PANEL 8

MOUNTING SURFACE — VOLTAGE 120/240 — PHASE 1 — WIRE 3 — AIC SYM. [2] — MAIN 150A/2P — BUS 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B	LOAD CLASS	WIRE SIZE	BREAKER AMPS			CKT #	CKT #		BREAKER AMPS	WIRE SIZE	LOAD CLASS	WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
SPARE	-			-	20	1		2	20		6			1080		SWITCHED RECEPT.
GROUND FLR. LTG.		150	4	1	20	3		4	20		5				1000	KITCHEN RECEPT.
BASEMENT LTG.	341		5	1	20	5		6	20		2			1000		KITCHEN RECEPT.
BASEMENT RECEPT.		1080	6		20	7		8	20		1				800	REFRIGERATOR
SPARE	-			-	20	9		10	20		1			1200		DISHWASHER
SPARE		-		-	20	11		12	20		1				500	DISPOSAL
SPARE	-			-	20	13		14	20	1				216		RANGE HOOD
SPARE		-		-	20	15		16	20		4				720	RESTRM./VEST./EXT.
WATER HEATER	2250			1	30	17		18	40	1				5600		RANGE/OVEN
WATER HEATER		2250		-	2	19		20	2	-					5600	RANGE/OVEN
WALL CONSOLE FC-8	120			1	15	21		22	20	1				1680		HEAT PUMP HP-8
WALL CONSOLE FC-8		120		-	2	23		24	2	-					1680	HEAT PUMP HP-8
	2161	5580			WATTS/LINE									8856	8500	

PHASE A = 11341 — PHASE B = 11380

TOTAL CONNECTED =	25471 VA
+25% LCL =	
TOTAL =	
CALCULATED LOAD =	88 A
MIN. FEEDER SIZE =	-

LOAD RECAP		
LIGHTING:	521 W x 1.25 =	651 H
MECHANICAL:	3600 W x 1.25 =	4500 H [5]
KITCHEN EQUIP.:	8978 W x 0.65 =	5484 H
MISC.:	9380 W x 1.0 =	9380 H
TOTAL =		21015 H
TOTAL =		88 A

[1] SEE LOAD RECAP

[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.

[5] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.

PANEL 9

MOUNTING SURFACE — VOLTAGE 120/240 — PHASE 1 — WIRE 3 — AIC SYM. [2] — MAIN 150A/2P — BUS 200A

LOCATION	WATTAGE PHASE A	WATTAGE PHASE B	LOAD CLASS	WIRE SIZE	BREAKER AMPS			CKT #	CKT #		BREAKER AMPS	WIRE SIZE	LOAD CLASS	WATTAGE PHASE A	WATTAGE PHASE B	LOCATION
DISPLAY LTG.	400			4	20	1		2	20		7			1260		SWITCHED RECEPT.
GROUND FLR. LTG.		441	10	2	20	3		4	20		2				1000	KITCHEN RECEPT.
BASEMENT LTG.	341		9	1	20	5		6	20		2			1000		KITCHEN RECEPT.
FLOOR RECEPT./BSMT.		1260	7		20	7		8	20		1				800	REFRIGERATOR
TV RECEPTACLES	1200		5		20	9		10	20		1			1200		DISHWASHER
HOIST		500		1	20	11		12	20		1				500	DISPOSAL
EXTER. POLE LIGHT	60		1		20	13		14	20	1				216		RANGE HOOD
SPARE		-	-		20	15		16	20		7				1260	RESTRM./EXTERIOR
WATER HEATER	2250			1	30	17		18	40	1				5600		RANGE/OVEN
WATER HEATER		2250		-	2	19		20	2	-					5600	RANGE/OVEN
WALL CONSOLE FC-9	120			1	15	21		22	20	1				1680		HEAT PUMP HP-9
WALL CONSOLE FC-9		120		-	2	23		24	2	-					1680	HEAT PUMP HP-9
	4421	4571			WATTS/LINE									9016	8840	

PHASE A = 13451 — PHASE B = 13411

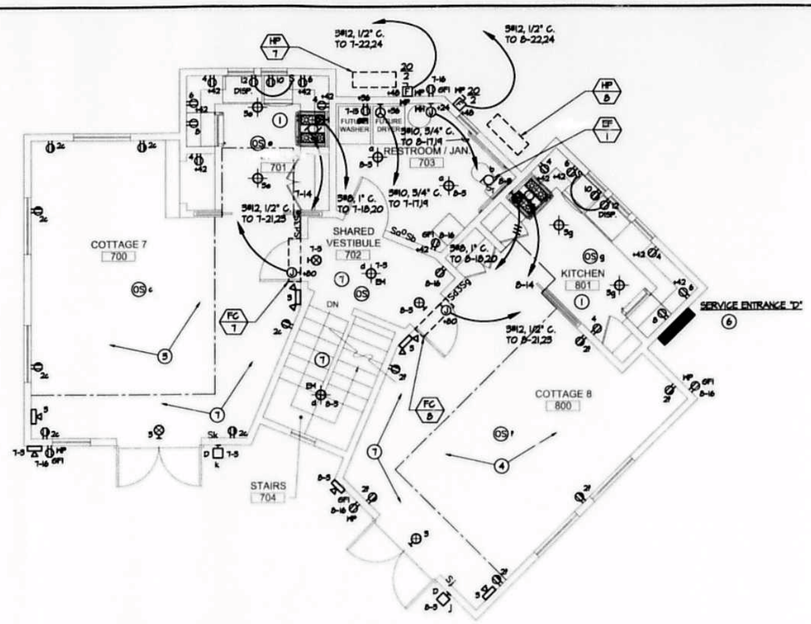
TOTAL CONNECTED =	36854 VA
+25% LCL =	
TOTAL =	
CALCULATED LOAD =	102 A
MIN. FEEDER SIZE =	-

LOAD RECAP		
LIGHTING:	1298 W x 1.25 =	1623 H
MECHANICAL:	3600 W x 1.25 =	4500 H [5]
KITCHEN EQUIP.:	8978 W x 0.65 =	5484 H
MISC.:	11980 W x 1.0 =	11980 H
TOTAL =		24587 H
TOTAL =		102 A

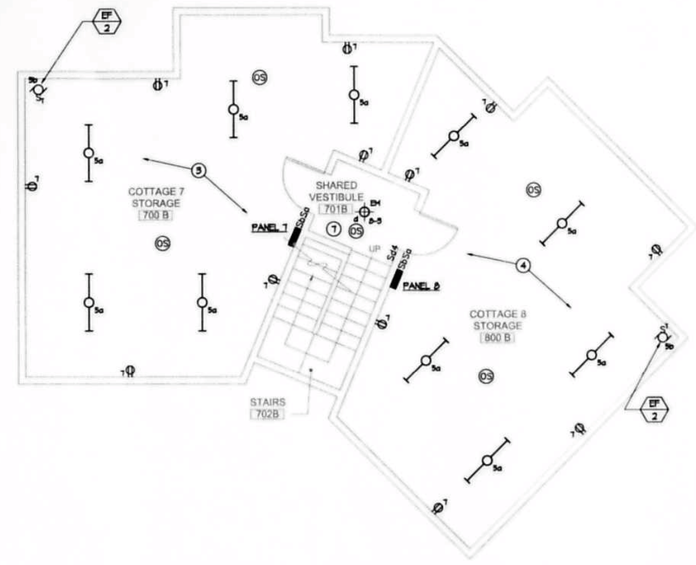
[1] SEE LOAD RECAP

[2] SEE SHORT CIRCUIT CALCULATION FOR MINIMUM REQUIRED AIC RATING.

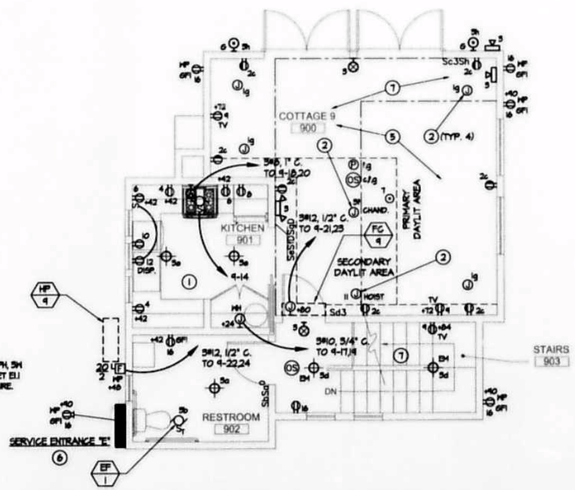
[5] LARGEST MOTOR IS HEAT PUMP COMPRESSOR. 25% FACTOR APPLIED TO ALL MECHANICAL LOADS.



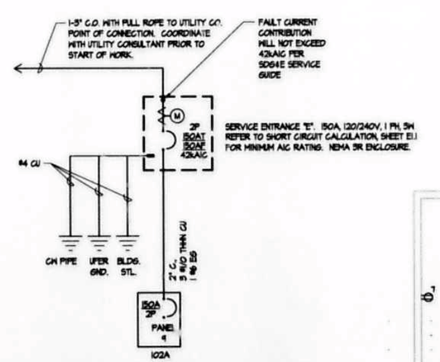
GROUND FLOOR ELECTRICAL PLAN - COTTAGE 7/8 — SCALE: 1/4" = 1'-0" — 0 1 2 4 8 FEET — REFERENCE



BASEMENT ELECTRICAL PLAN - COTTAGE 7/8 — SCALE: 1/4" = 1'-0" — 0 1 2 4 8 FEET — REFERENCE

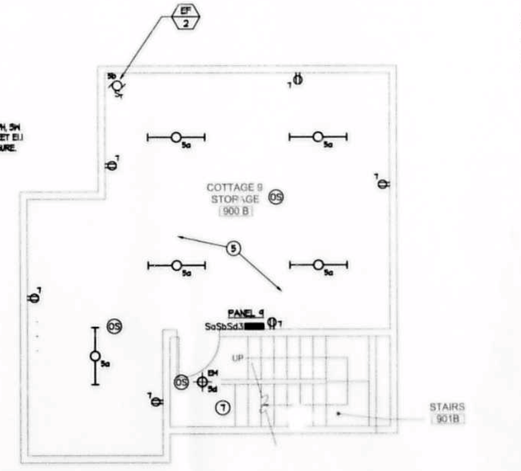


GROUND FLOOR ELECTRICAL PLAN - COTTAGE 9 — SCALE: 1/4" = 1'-0" — 0 1 2 4 8 FEET — REFERENCE

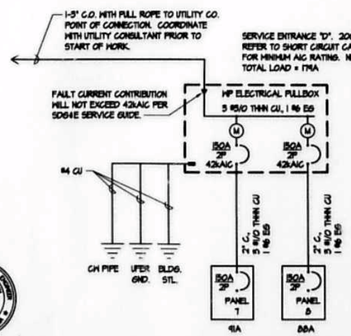


SERVICE ENTRANCE "E" SINGLE LINE DIAGRAM

COTTAGES 1 THRU 6 — NO SCALE



BASEMENT ELECTRICAL PLAN - COTTAGE 9 — SCALE: 1/4" = 1'-0" — 0 1 2 4 8 FEET — REFERENCE



SERVICE ENTRANCE "D" SINGLE LINE DIAGRAM

COTTAGES 1 THRU 6 — NO SCALE

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ENGINEERED SYSTEMS
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ARCHITECT OF WORK

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HERITAGE ARCHITECTURE & PLANNING
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(619) 239-7000 FAX (619) 234-6266

KEY NOTES

1. ALL RECEPTACLES AT KITCHEN SHALL BE GFI TYPE.
2. MOUNT ABOVE CEILING. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE.
3. ALL CIRCUITS IN COTTAGE 7 SHALL BE RUN TO PANEL 7 UNLESS NOTED OTHERWISE.
4. ALL CIRCUITS IN COTTAGE 8 SHALL BE RUN TO PANEL 8 UNLESS NOTED OTHERWISE.
5. ALL CIRCUITS IN COTTAGE 9 SHALL BE RUN TO PANEL 9 UNLESS NOTED OTHERWISE.
6. SEE SINGLE LINE DIAGRAM.
7. EGRESS LIGHTING AREA OF 1 FC AVERAGE.

JUNE 26, 2017

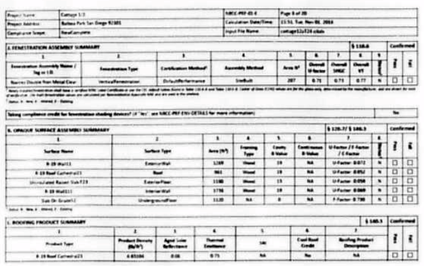
CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE:	SHEET NUMBER:
ELECTRICAL PLANS - COTTAGE 7/8, COTTAGE 9	E1.4
LAMBERT COORDINATES: 204-1721 — THOMAS BROTHERS PAGE: 60, D-6	(PSD #)



Project Name:	Cottage 1/2	NRCC-PRF-01-E	Page 8 of 20
Project Address:	Balboa Park San Diego 92101	Calculation Date/Time:	15:53, Tue, Nov 01, 2016
Compliance Scope:	NewConstructio	Input File Name:	cottage1\1216.ribd6

E. FENESTRATION ASSEMBLY SUMMARY — $ 116.6 — Confirmed

1 Fenestration Assembly Name (Up to 12)	2 Fenestration Type	3 Certification Method*	4 Assembly Method	5 Area ft²	6 Overall U-factor	7 Overall SHGC	8 Overall VT	9 Pass	10 Fail
Awning Double Pane Metal Elevr	VerticalFenestration	DefaultPerformance	DefSubD	287	0.75	0.73	0.77	N	☐

* Default = Default Table, Label = Label Certification, or Site = Site Specific. Default Table U-factor, SHGC, and VT are from Table 110.6-A. Label U-factor, SHGC, and VT are from Table 110.6-B. Label U-factor, SHGC, and VT shall be the lower (more energy efficient) of the two values. If a Label U-factor, SHGC, and/or VT is not available, a default value shall be used. For a site-built fenestration product, the Label U-factor, SHGC, and/or VT shall be the value certified by the manufacturer, and not shown in the Default Table. For a custom fenestration product, the Label U-factor, SHGC, and/or VT shall be the value rated by an approved independent laboratory and not shown in the Default Table. Label U-factor, SHGC, and/or VT shall not be used to the extent the Default U-factor, SHGC, and/or VT is lower than the Label U-factor, SHGC, and/or VT.

Table 5: Area, U - Glazing, F - Glazing

Tabular compliance credit for fenestration shading devices? (if "Yes", see NRCC-PRF-E01-DETAILS for more information):	Yes

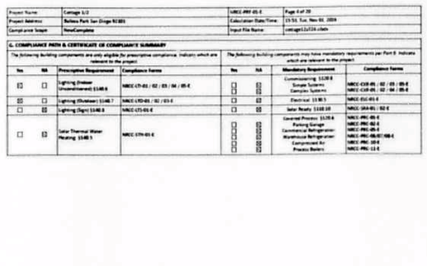
G. GROUP SUMMARY ASSEMBLY SUMMARY — $ 126.77 $ 146.3 — Confirmed

1 Surface Name	2 Surface Type	3 Area (ft²)	4 Framing Type	5 Cavity, R-Value	6 Continuous R-Value	7 U-Factor / F-Factor / C-Factor	8 Shaded	Pass	Fail
R-19 Wall11	ExteriorWall	1269	Wood	19	NA	U-Factor: 0.072	N	☐	☐
R-19 Roof Cathedral23	Roof	961	Wood	19	NA	U-Factor: 0.052	N	☐	☐
Uninsulated Raised Slab F23	ExteriorFloor	1180	Wood	19	NA	U-Factor: 0.056	N	☐	☐
R-19 Wall11	InteriorWall	1756	Wood	19	NA	U-Factor: 0.069	N	☐	☐
Slab On Grade13	UndergroundFloor	1120	NA	0	NA	F-Factor: 0.730	N	☐	☐

Table: R - Area, U - Glazing, F - Glazing

I. ROOFING PRODUCT SUMMARY — $ 146.3 — Confirmed

1 Product Type	2 Product Density (lb/ft³)	3 Aged Solar Reflectance	4 Thermal Emittance	5 SRI	6 Cool Roof Credit	7 Roofing Product Description	Pass	Fail
R-19 Roof Cathedral23	0.83184	0.65	0.75	NA	No	NA	☐	☐



Project Name:	Cottage 1/2	NRCC-PRF-01-E	Page 9 of 20
Project Address:	Balboa Park San Diego 92101	Calculation Date/Time:	15:53, Tue, Nov 01, 2016
Compliance Scope:	NewConstructio	Input File Name:	cottage1\1216.ribd6

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.

Yes	NA	Prescriptive Requirement	Compliance Forms
☑	☐	Lighting (Indoor Unconditioned 110.6)	NRCI-LTI-01 - 02 / 03 / 04 / 05-E
☑	☐	Lighting (Outdoor 110.6)	NRCI-LTO-01 - 02 / 03-E
☐	☒	Lighting (Sign) 110.6	NRCI-LTI-01-E
☐	☒	Solar Thermal Water Heating 110.5	NRCI-STH-01-E

The following building components may have mandatory requirements per Part 5. Indicate which are relevant to the project.

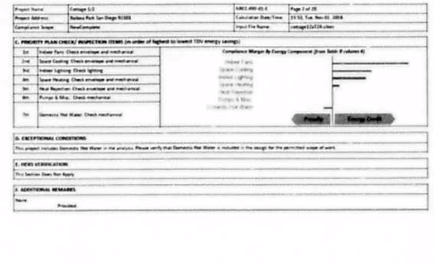
Yes	NA	Mandatory Requirement	Compliance Forms
☐	☒	Commissioning 120.8 Scope Systems Samples System	NRCI-CXR-01 - 02 / 03 / 04-E NRCI-CXR-01 - 02 / 04 / 05-E
☐	☒	Electrical 130.5	NRCI-ELC-01-E
☐	☒	Solar Ready 110.10	NRCI-SRA-01 / 02-E
☐	☒	Cool Roofing 110.8 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCI-PRF-01-E NRCI-PRF-02-E NRCI-PRF-03-E NRCI-PRC-01/02/03/04-E NRCI-PRC-01/02-E NRCI-PRC-12-E

Project Name:	Cottage 1/2	NRCC-PRF-01-E	Page 10 of 20
Project Address:	Balboa Park San Diego 92101	Calculation Date/Time:	15:53, Tue, Nov 01, 2016
Compliance Scope:	NewConstructio	Input File Name:	cottage1\1216.ribd6

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "NA" = not in project.
For components that utilize the performance path, indicate the check number that includes mandatory notes on plans.

Building Component	Compliance Path	Compliance Forms (required for submittal)	Location of Mandatory Notes on Plans
Envelope	☑ Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐ NA		
Mechanical	☐ Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐ NA		
Domestic Hot Water	☐ Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PLB-01-E	
	☐ NA		
Lighting (Indoor Conditioned)	☑ Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☐ NA		
Covered Process: Commercial Kitchens	☐ Performance	12 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/03-E	
	☑ NA		
Covered Process: Computer Rooms	☐ Performance	13 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/04-E	
	☑ NA		
Covered Process: Laboratory Exhaust	☐ Performance	14 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01/05-E	
	☑ NA		



Project Name:	Cottage 1/2	NRCC-PRF-01-E	Page 11 of 20
Project Address:	Balboa Park San Diego 92101	Calculation Date/Time:	15:53, Tue, Nov 01, 2016
Compliance Scope:	NewConstructio	Input File Name:	cottage1\1216.ribd6

C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

Est	Indoor Fans: Check envelope and mechanical
2nd	Space Cooling: Check envelope and mechanical
3rd	Indoor Lighting: Check lighting
4th	Space Heating: Check envelope and mechanical
5th	Heat Rejection: Check envelope and mechanical
6th	Pumps & Misc.: Check mechanical
7th	Domestic Hot Water: Check mechanical

Compliance Margin By Energy Component (from Table 3 column 4)

D. EXCEPTIONAL CONDITIONS

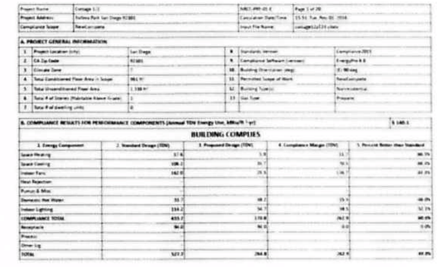
This project includes Domestic Hot Water in the analysis. Please verify that Domestic Hot Water is included in the design for the permitted scope of work.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None Provided



Project Name:	Cottage 1/2	NRCC-PRF-01-E	Page 12 of 20
Project Address:	Balboa Park San Diego 92101	Calculation Date/Time:	15:53, Tue, Nov 01, 2016
Compliance Scope:	NewConstructio	Input File Name:	cottage1\1216.ribd6

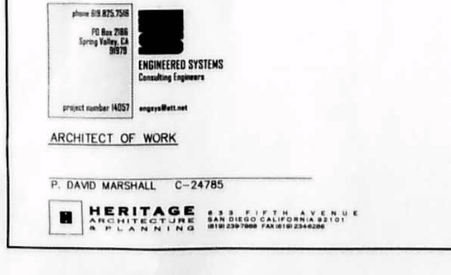
A. PROJECT GENERAL INFORMATION

1	Project Location (city)	San Diego	9	Standards Version	Compliance 2013
2	CZ& Zip Code	92101	10	Compliance Software (version)	EnergyPro 6.0
3	Climate Zone	7	11	Building Orientation (deg)	0 / NEnergy
4	Total Conditioned Floor Area (+ Loops)	961 ft²	12	Permitted Scope of Work	NewConstructio
5	Total Unconditioned Floor Area	1,180 ft²	13	Building Type(s)	Nonresidential
6	Total # of Stories (Habitable Above Grade)	1	14	Gas Type	Propane
7	Total # of dwelling units	0			

B. COMPLIANCE RESULTS FOR NONRESIDENTIAL COMPONENTS (Annual TDV Energy Use, MBtu/ft² / yr) — $ 146.1

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	17.8	1.9	15.9	89.3%
Space Cooling	108.2	31.7	76.5	70.7%
Indoor Fans	142.9	29.5	113.4	79.3%
Heat Rejection	-	-	-	-
Pumps & Misc.	-	-	-	-
Domestic Hot Water	33.7	18.2	15.4	46.0%
Indoor Lighting	154.2	54.7	99.5	64.5%
COMPLIANCE TOTAL	455.7	170.8	362.9	80.0%
Receptacle	96.0	96.0	0.0	0.0%
Process	-	-	-	-
Other Lig	-	-	-	-
TOTAL	521.7	266.8	362.9	69.9%



Project Name:	Cottage 1/2	NRCC-PRF-01-E	Page 5 of 20
Project Address:	Balboa Park San Diego 92101	Calculation Date/Time:	15:53, Tue, Nov 01, 2016
Compliance Scope:	NewConstructio	Input File Name:	cottage1\1216.ribd6

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –
Documentation Author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in field for Field Inspector to verify)
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms to equipment

Building Component	Compliance Forms (required for submittal)	Confirmed Pass	Confirmed Fail
Envelope	☑ NRCI-ENV-01-E Roof/Ceiling	☐	☐
	☑ NRCA-ENV-02-F NFRC label certification for fenestration	☐	☐
Mechanical	☑ NRCI-MCH-01-E For all buildings with Mechanical Systems	☐	☐
	☑ NRCA-MCH-02-A Outdoor Air	☐	☐
	☐ NRCA-MCH-03-A - Constant Volume Single Zone HVAC	☐	☐
	☐ NRCA-MCH-04-A Air Distribution Duct Leakage	☐	☐
	☐ NRCA-MCH-05-A Air Economizer Controls	☐	☐
	☐ NRCA-MCH-06-A Demand Control Ventilation	☐	☐
	☐ NRCA-MCH-07-A – Supply Fan Variable Flow Controls	☐	☐
	☐ NRCA-MCH-08-A Valve Leakage Test	☐	☐
	☐ NRCA-MCH-09-A – Supply Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-10-A Hydronic System Variable Flow Controls	☐	☐
	☐ NRCA-MCH-11-A – Auto Demand Shed Controls	☐	☐
	☐ NRCA-MCH-12-A Packaged Direct Expansion Units	☐	☐
	☐ NRCA-MCH-13-A Air Handling Units and Zone Terminal Units	☐	☐
	☐ NRCA-MCH-14-A Distributed Energy Storage	☐	☐
	☐ NRCA-MCH-15-A – Thermal Energy Storage	☐	☐
	☐ NRCA-LTI-08-A Demand responsive lighting controls	☐	☐
	☐ NRCA-LTI-09-A – Outdoor Lighting	☐	☐
	☐ NRCA-LTI-10-A Daylighting	☐	☐
	☐ NRCA-LTI-11-A – Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-12-A – Additional wattage installed in a video conferencing studio	☐	☐
	☐ NRCA-LTI-13-A – Occupancy sensors and automatic time switch controls	☐	☐
	☐ NRCA-LTI-14-A – Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-15-A – Demand responsive lighting controls	☐	☐
Indoor Lighting	☐ NRCI-LTI-01-E – Indoor Lighting	☐	☐
	☐ NRCI-LTI-02-E – Lighting control system, as for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E – Low-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E Task tuning and occupancy sensing, or auditorium, a classroom/lecture center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E – Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E – Additional wattage installed in a video conferencing studio	☐	☐
	☐ NRCI-LTI-07-E – Occupancy sensors and automatic time switch controls	☐	☐
Outdoor Lighting	☐ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E– EMCS Lighting Control System	☐	☐
	☐ NRCA-LTO-03-A – Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTI-01-E – Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E – Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

Project Name:	Cottage 1/2	NRCC-PRF-01-E	Page 6 of 20
Project Address:	Balboa Park San Diego 92101	Calculation Date/Time:	15:53, Tue, Nov 01, 2016
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Building Component	Compliance Forms (required for submittal)	Confirmed Pass	Confirmed Fail
Plumbing	☐ NRCI-PLB-01-E For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E – required on central systems in high-rise residential, hotel/motel application	☐	☐
	☐ NRCI-PLB-03-E – Single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐
	☐ NRCI-PLB-04-E – HERS verified water heating systems in high-rise residential, hotel/motel application	☐	☐
	☐ NRCI-PLB-05-E – HERS verified single-dwelling unit systems in high-rise residential, hotel/motel application	☐	☐
	☐ NRCI-PLB-06-E– HERS verified central water heating systems in high-rise residential, hotel/motel application	☐	☐
	☐ NRCI-PLB-07-E – HERS verified single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐
	☐ NRCI-ENV-01-E – Any solar water heating	☐	☐
Indoor Lighting	☐ NRCI-LTI-01-E For all buildings	☐	☐
	☐ NRCI-LTI-02-E Lighting control system, as for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E – Low-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E Task tuning and occupancy sensing, or auditorium, a classroom/lecture center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E – Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E – Additional wattage installed in a video conferencing studio	☐	☐
	☐ NRCI-LTI-07-E – Occupancy sensors and automatic time switch controls	☐	☐
Outdoor Lighting	☐ NRCA-LTI-09-A – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-01-E – Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E– EMCS Lighting Control System	☐	☐
	☐ NRCA-LTO-03-A – Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTI-01-E – Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E – Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

Project Name:	Cottage 1/2	NRCC-PRF-01-E	Page 7 of 20
Project Address:	Balboa Park San Diego 92101	Calculation Date/Time:	15:53, Tue, Nov 01, 2016
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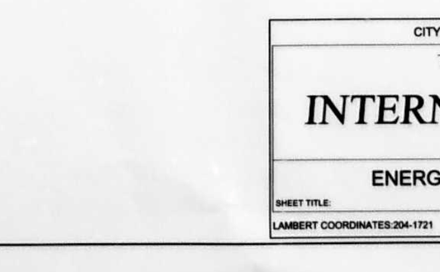
See Tables G. and H. in MCH and LTI Details Sections for Acceptance Tests and forms to equipment.

Building Component	Compliance Forms (required for submittal)	Confirmed Pass	Confirmed Fail
Covered Process	☐ NRCI-PRC-01-E Refrigerated Warehouse	☐	☐
	☐ NRCA-PRC-01-F Compressed Air Systems	☐	☐
	☐ NRCA-PRC-02-F Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F Refrigerated Warehouse Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F Refrigerated Warehouse Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F Refrigerated Warehouse Air-Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07-F Refrigerated Warehouse Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (See NRCC-PRF-ENV-DETAILS for more information)

						Confirmed	
1	Total Conditioned Floor Area	961 ft²	5	Number of Floors Below Grade	0		
2	Total Unconditioned Floor Area	1,180 ft²	6	Number of Floors Below Grade	0		
3	Addition Conditioned Floor Area	0 ft²					
4	Addition Unconditioned Floor Area	0 ft²					

7 Opaque Surfaces & Orientation	8 Total Gross Surface Area	9 Total Fenestration Area	10 Window to Wall Ratio	Pass	Fail
North Wall	908 ft²	16 ft²	12.0%	☐	☐
East Wall	240 ft²	66 ft²	34.0%	☐	☐
South Wall	270 ft²	36 ft²	13.7%	☐	☐
West Wall	384 ft²	45 ft²	14.0%	☐	☐
Total	1,317 ft²	201 ft²	18.0%	☐	☐
Roof	961 ft²	0 ft²	00.0%	☐	☐



Project Name:	Cottage 1/2	NRCC-PRF-01-E	Page 13 of 20
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Compliance Scope:	NewConstructio	Input File Name:	cottage1\1216.ribd6

M. HVAC SYSTEMS SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) — $ 116.2 / $ 116.3 — Confirmed

Dry System Equipment (For A Economizer info included below in Table N)

1	2	3	4	5	6	7	8	9		10	11	Pass	Fail
Equip Name	Equip Type	Equip Subtype ("na" if Complete "1	Qty	Total Cooling Output (kBtu/hr)	Supply Heat Source (kBtu)	Total Heating Output (kBtu/h)	Efficiency			Air Economizer Airflow Response? (Y/N)	Economizer Type		
							Cooling	Heating					
HP-LPC-1	12HP Split/Diffusion	Simple	1	22	No	0	17	0839.20-1 0839.20-3	95HPF-11.1	No	N	☐	☐
HP-LPC-2	12HP Split/Diffusion	Simple	1	22	No	0	17	0126.20-1 0839.20-4	95HPF-11.2	No	N	☐	☐

Water System Equipment *

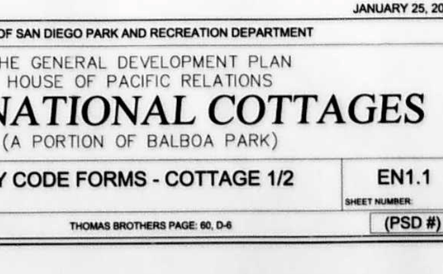
12	13	14	15	16	17	18	19	20	21	22	23	24		
Equip Name	Equip Type	Qty	Inst (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss	Tank Ext. U Value	Qty	GPM	HP	VFD (Y/N)	Pass	Fail
Process PROCESS-1	Storage	1	NI	15	37.0 (Eff)	NA	NA	NA	NA	NA	No	N	☐	☐

Pumps

Discrepancy between modeled and designed equipment sizing? (If "Yes" - see Table F - Additional R	No

N. ECONOMIZER & FAN SYSTEMS SUMMARY* — $ 146.4 — Confirmed

1	2	3						4					5	Pass	Fail
Equip Name	Outside Air CFM	Supply Fan						Return Fan					Economizer Type (if present)		
		CFM	HP	BHP	TSP (inch WC)	Control		CFM	HP	BHP	TSP (inch WC)	Control			
HP-LPC-1	196	470	0.100	0.100	0.65	ConstantVolume		NA	NA	NA	NA	NA	NoEconomizer	☐	☐



Project Name:	Cottage 1/2	NRCC-PRF-01-E	Page 14 of 20
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Compliance Scope:	NewConstructio	Input File Name:	cottage1\1216.ribd6

N. ECONOMIZER & FAN SYSTEMS SUMMARY* — $ 146.4 — Confirmed

1	2	3						4					5	Pass	Fail
Equip Name	Outside Air CFM	Supply Fan						Return Fan					Economizer Type (if present)		
		CFM	HP	BHP	TSP (inch WC)	Control		CFM	HP	BHP	TSP (inch WC)	Control			
HP-LPC-1	196	470	0.100	0.100	0.65	ConstantVolume		NA	NA	NA	NA	NA	NoEconomizer	☐	☐
HP-LPC-2	196	470	0.100	0.100	0.65	ConstantVolume		NA	NA	NA	NA	NA	NoEconomizer	☐	☐

O. EQUIPMENT CONTROLS — $ 126.2 — Confirmed

1 Equip Name	2 Equip Type	3 Controls	Pass	Fail
HP-LPC-1	12HP	No DDC Controls No Economizer Not Supply Air Temp Control No Optimum Start	☐	☐
HP-LPC-2	12HP	No DDC Controls No Economizer Not Supply Air Temp Control No Optimum Start	☐	☐
WH-LC-1EM	Service Hot Water, Primary Only	Fixed Temperature Control, No DDC	☐	☐

P. SYSTEM DISTRIBUTION SUMMARY — $ 120.4/ $ 146.4(E)

1	2	Duct Construction					Confirmed	
Equip Name	Equip Type	3 Duct Leakage and Insulation Requirement per NA1 and NA2	4 Ducts Insulation R-Value	5 Ducts Location	6 Ducts Name	7 Duct Leakage will be verified per NA2 and TAV	Pass	Fail
HP-LPC-1	12HP	No	8	None		No	☐	☐
HP-LPC-2	12HP	No	8	None		No	☐	☐

Does the Project Include Zonal Systems? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	Yes
Does the Project Include a Solar Hot Water System? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	Yes

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Compliance Scope:	NewConstructio	Input File Name:	cottage1\1216.ribd6

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)

1 Fenestration Tag/ID	2 Fenestration Orientation	3 Overhang Dimensions: Horizontal Projection	3 Overhang Dimensions: Distance Above Window	4 Side fin: Vertical Projection	Pass	Fail
2 Door Window 02	East	1.0 ft.	1.5 ft.	Left: 2.0 ft., Right: 0 ft.	☐	☐
W Window 144	West	1.0 ft.	1.5 ft.	Left: 1.5 ft., Right: 0 ft.	☐	☐

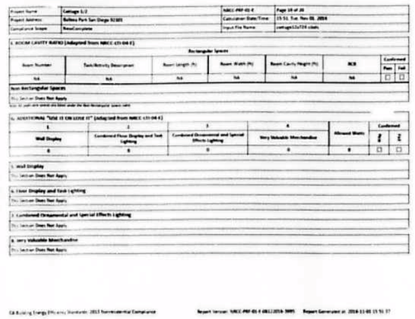
C. OPAQUE DOOR SUMMARY

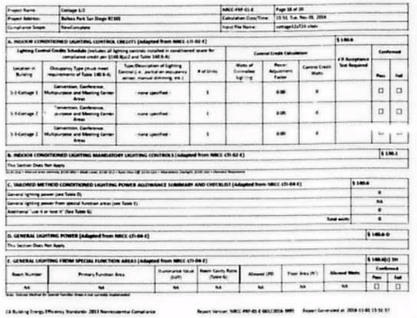
This Section Does Not Apply

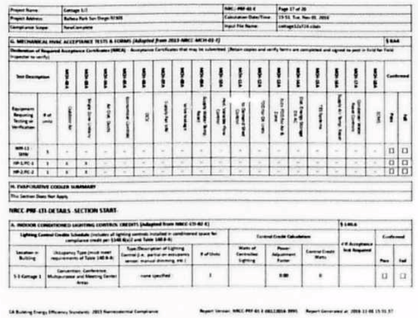
NRCC-PRF-ENV DETAILS SECTION START

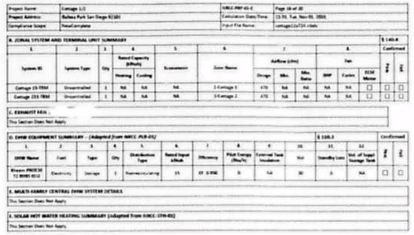
A. MECHANICAL VENTILATION AND REMOVAL (Adapted from 2013 NRCC-MCH-03-E) — Confirmed

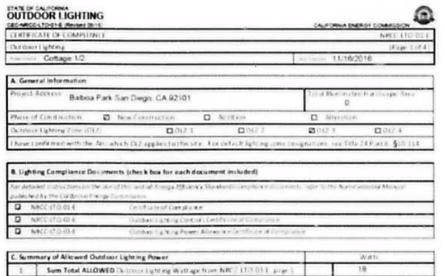
| 1 DESIGN AIR FLOWS | | | | | | | | | | | | | | 2. VENTILATION (§ 120.1) | | | | | | | | | | | | | |

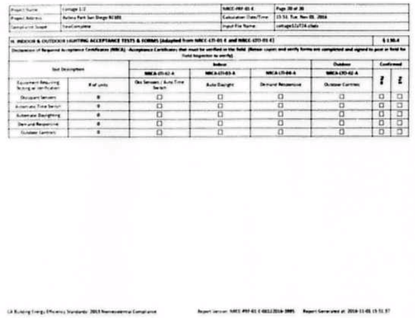


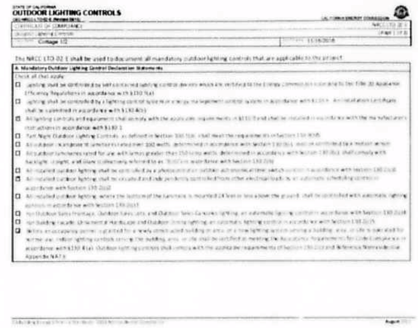


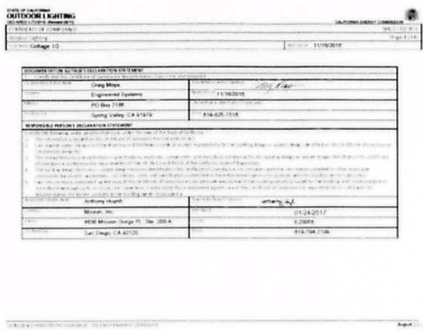


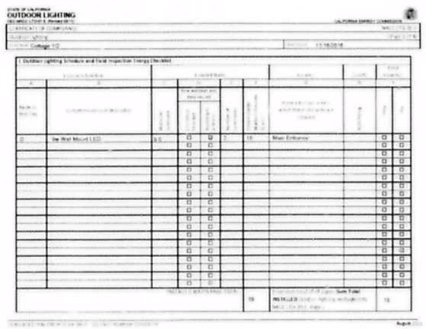


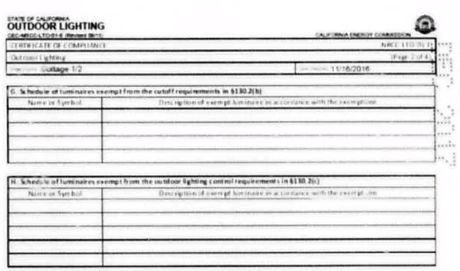


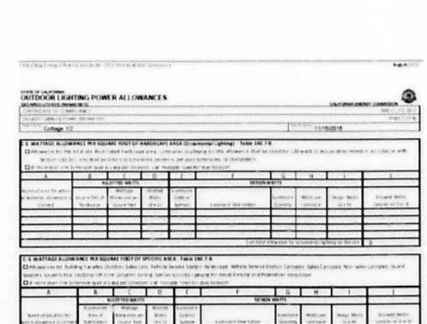


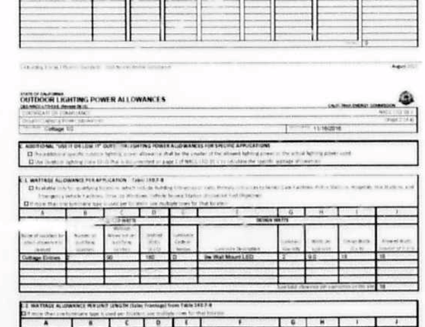


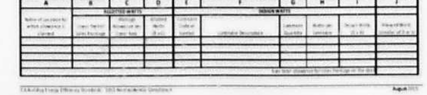












phone 619.825.7516
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Spring Valley, CA
91979

ENGINEERED SYSTEMS
Consulting Engineers

project number 14057 engsys@att.net

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING 633 FIFTH AVENUE SAN DIEGO CALIFORNIA 92101 (619) 239-7666 FAX (619) 234-6286

COUNCIL DISTRICT: 3

DATE	ACTION	REFERENCE DOCUMENTS		
	SITE ACQUIRED	RESO. NO. R-	COST $:	ACRES:
	SITE DEDICATED	ORD. NO.		ACRES:
1/18/2012	GDP CONSULTANT HIRED	RESO. NO.	NAME: ESTRADA LAND PLANNING	
	P&R BOARD APPROVAL	PF&R APPROVAL	DATE:	
	INITIAL DEVELOPMENT	CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.

IMPROVEMENTS SUMMARY (DATA FROM AS-BUILT DRAWINGS)

ITEM	QUANTITY	ITEM	QUANTITY	ITEM	QUANTITY	ITEM	QUANTITY
TOTAL SITE	AC.	TOT LOT	SF	PAVED WALKWAYS	SF	SECURITY LTS.	STDS.
IMPROVED AREA	AC.	MULTI-PURPOSE CT.	SF	PARK ROADS	SF	BALLFIELD LTS.	STDS.
TURF	AC.	TENNIS CTS.	SF	PARKING LOT	SF	TENNIS COURT LTS.	STDS.
SHRUB BED	AC.	RESTROOM	SF	PARKING STALLS-STD.		MULTI-PURPOSE CT. LTS.	STDS.
NATURAL	AC.	REC. BLDG.	SF	PARKING STALLS-DISABLED	1	BACKSTOPS	EA.
D.G. PAVING	AC.	POOL BLDG.	SF	COURT GAME AREA	SF	BENCHES	EA.
DIRT INFIELDS	AC.	POOL DECK	SF	LAWN EDGING	LF	PICNIC TABLES	EA.
		POOL WATER	SF	BLEACHERS	EA.	TRA[illegible] RECEPTACLES	EA.
						REVISION	

DECEMBER 6, 2016

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: ENERGY CODE FORMS - COTTAGE 1/2

SHEET NUMBER: EN1.2

LAMBERT COORDINATES:204-1721 THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

Project Name:	Cottage 3/4	NRCC-PRF-01-E	Page 3 of 28
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Compliance Scope:	NewConstruction	Input File Name:	cottage3&4716.ribd6

M. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) -
Documentation author to indicate which certificates must be submitted for the features to be recognized for compliance
(Return copies and verify forms are completed and signed to post in field for Field inspector to verify).
see Tables G and H in M-MECH and I.T. Details Sections for acceptance tests and forms by equipment.

Building Component	Compliance Forms (required for submittal)	Confirmed Pass	Confirmed Fail
Envelope	☐ NRCI-ENV-01-E - For all buildings	☐	☐
	☐ NRCA-ENV-02-F - NRC later verification for fenestration	☐	☐
Mechanical	☒ NRCI-MCH-01-E - For all buildings with Mechanical Systems	☐	☐
	☒ NRCI-MCH-02-E - Outdoor Air	☐	☐
	☐ NRCA-MCH-03-A - Compliant Volume Single Zone HVAC	☐	☐
	☐ NRCA-MCH-04-H - Air Distribution Duct Leakage	☐	☐
	☐ NRCA-MCH-05-A - Air Economizer Controls	☐	☐
	☐ NRCA-MCH-06-A - Demand Control Ventilation	☐	☐
	☐ NRCA-MCH-07-A - Supply Fan Variable Flow Controls	☐	☐
	☐ NRCA-MCH-08-A - Valve Leakage Test	☐	☐
	☐ NRCA-MCH-09-A - Supply Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-10-A - Hydronic System Variable Flow Controls	☐	☐
	☐ NRCA-MCH-11-A - Auto Demand Shed Controls	☐	☐
	☐ NRCA-MCH-12-A - Packaged Direct Expansion Unit	☐	☐
	☐ NRCA-MCH-13-A - Air Handling Units and Zone Terminal Units	☐	☐
	☐ NRCA-MCH-14-A - Distributed Energy Storage	☐	☐
	☐ NRCA-MCH-15-A - Thermal Energy Storage	☐	☐
	☐ NRCA-MCH-16-A - Supply Air Temp Reset Controls	☐	☐
	☐ NRCA-MCH-17-A - Condensate Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-18-A - Energy Management Controls Systems	☐	☐
	☐ NRCI-MCH-04-H - Duct Leakage Test	☐	☐

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components are only eligible for prescriptive compliance. Indicate which are relevant to the project.

Yes	NA	Prescriptive Requirement	Compliance Forms
☒	☐	Lighting (Indoor Uncontrolled) 1140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E
☒	☐	Lighting (Outdoor) 1140.7	NRCC-LTO-01 / 02 / 03-E
☐	☒	Lighting (Sign) 1140.8	NRCC-LTO-03-E
☐	☒	Solar Thermal Water Heating 1140.9	NRCC-STH-01-E

The following building components may have mandatory requirements per Part 6. Indicate which are included in the project.

Yes	NA	Mandatory Requirement	Compliance Forms
☐	☒	Commissioning §120.8 Scope Systems: Complex Systems:	NRCI-ENV-01-E / NRCI-MCH-01-E / NRCI-LTI-01-E / NRCI-LTO-01-E
☐	☒	Electrical §130.5	NRCI-ELC-01-E
☐	☒	Solar Ready §110.10	NRCI-SRA-01 / 02-E
☐	☒	Covered Process §120.9 Parking Garage: Commercial Refrigeration: Warehouse Refrigeration: Compressed Air: Process Boilers:	NRCI-PRC-01-E / NRCI-PRC-02-E / NRCI-PRC-03-E / NRCI-PRC-04/05/06-E / NRCI-PRC-10-E / NRCI-PRC-12-E

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "N/A" = not in project.
For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component	Compliance Path	Compliance Forms (required for submittal)	Location of Mandatory Notes on Plans
Envelope	☐ Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐ N/A		
Mechanical	☐ Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☒ N/A		
Domestic Hot Water	☐ Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PLB-03-E	
	☐ N/A		
Lighting (Indoor Conditioned)	☐ Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☐ N/A		
Covered Process: Commercial Kitchens	☐ Performance	12 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01-E	
	☐ N/A		
Covered Process: Computer Rooms	☐ Performance	13 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-02-E	
	☐ N/A		
Covered Process: Laboratory Exhaust	☐ Performance	14 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-03-E	
	☐ N/A		

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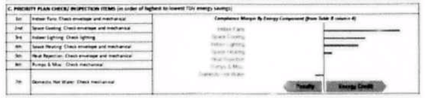
C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

Ext	Indoor Fans: Check envelope and mechanical
Ind	Space Cooling: Check envelope and mechanical
Ind	Indoor Lighting: Check lighting
Mh	Space Heating: Check envelope and mechanical
Mh	Heat Rejection: Check envelope and mechanical
Mh	Pumps & Misc.: Check mechanical
Dh	Domestic Hot Water: Check mechanical

Compliance Margin By Energy Component (from Table 4 column 4)



D. EXCEPTIONAL CONDITIONS

This project includes Domestic Hot Water in the analysis. Please verify that Domestic Hot Water is included in the design for the permitted scope of work.

E. HERS VERIFICATION

Dhw System Does Not Apply

F. ADDITIONAL REMARKS

Name: Provided

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Compliance Scope:	NewConstruction	Input File Name:	cottage3&4716.ribd6

A. PROJECT GENERAL INFORMATION

1	Project Location (city)	San Diego	9	Standards Version	Compliance 2013
2	CA Zip Code	92101	10	Compliance Software (version)	EnergyPro 6.4
3	Climate Zone	7	11	Building Orientation (deg)	21.98 deg
4	Total Conditioned Floor Area (ft sq.ft)	1,788 ft²	12	Permitted Scope of Work	NewConstruction
5	Total Unconditioned Floor Area	1,788 ft²	13	Building Type(s)	NonResidential
6	Total # of Stories, (Habitable Above Grade)	1	14	Geo Type	Presidio
7	Total # of dwelling units	0			

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² yr) § 140.1

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	20.5	1	19.4	95.4%
Space Cooling	107.3	33.2	74.1	69.1%
Indoor Fans	178.9	21.5	135.7	84.7%
Heat Rejection	-	-	-	-
Pumps & Misc.	-	-	-	-
Domestic Hot Water	53.9	47.6	15.1	88.8%
Indoor Lighting	134.2	52.8	81.5	60.7%
COMPLIANCE TOTAL	494.9	160.2	349.9	67.7%
Receptacle	94.0	94.0	0.0	0.0%
Process	-	-	-	-
Other Log	-	-	-	-
TOTAL	588.9	298.2	349.9	50.6%

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M. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) -
Documentation author to indicate which certificates must be submitted for the features to be recognized for compliance
(Return copies and verify forms are completed and signed to post in field for Field inspector to verify).
see Tables G and H in M-MECH and I.T. Details Sections for acceptance tests and forms by equipment.

Building Component	Compliance Forms (required for submittal)	Confirmed Pass	Confirmed Fail
Plumbing	☐ NRCI-PLB-01-E - For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCA-PLB-23-E - HERS verified central systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCA-PLB-23-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCA-PLB-23-M - HERS verified central systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCA-PLB-23-M - HERS verified single dwelling unit systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCI-ER-01-E - Any solar water heating	☐	☐
Indoor Lighting	☒ NRCI-LTI-01-E - For all buildings	☐	☐
	☐ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Low-voltage track lighting, integral current limiter, or for a supplementary overcurrent protection panel used to energize only low-voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Task illuminated systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Exterior Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☐ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls	☐	☐
	☐ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☐ NRCI-LTO-01-E - Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E - EMCS Lighting Control System	☐	☐
	☐ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTO-03-E - Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

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(Return copies and verify forms are completed and signed to post in field for Field inspector to verify).
see Tables G and H in M-MECH and I.T. Details Sections for acceptance tests and forms by equipment.

Building Component	Compliance Forms (required for submittal)	Confirmed Pass	Confirmed Fail
Covered Process	☐ NRCI-PRC-01-E - Refrigerated Warehouse	☐	☐
	☐ NRCI-PRC-01-F - Compressed Air Systems	☐	☐
	☐ NRCA-PRC-02-F - Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-F - Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F - Refrigerated Warehouse- Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F - Refrigerated Warehouse- Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F - Refrigerated Warehouse- Air-Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07F - Refrigerated Warehouse- Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F - Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (see NRCC-PRF-ENV-DETAILS for more information)

				Confirmed Pass	Confirmed Fail
1.	Total Conditioned Floor Area	1,788 ft²	5.	Number of Floors Name Grade	1
2.	Total Unconditioned Floor Area	1,788 ft²	6.	Number of Floors Below Grade	0
3.	Addition Conditioned Floor Area	0 ft²			
4.	Addition Unconditioned Floor Area	0 ft²			

Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio
North Wall	405 ft²	87 ft²	21.5%
East Wall	403 ft²	76 ft²	18.8%
South Wall	290 ft²	32 ft²	11.0%
West Wall	267 ft²	32 ft²	12.0%
Total	1,362 ft²	227 ft²	17.1%
Roof	894 ft²	0 ft²	00.0%

Project Name:	Cottage 3/4	NRCC-PRF-01-E	Page 8 of 28
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I. FENESTRATION ASSEMBLY SUMMARY § 110.6

1 Fenestration Assembly Name / Tag in I.D.	2 Fenestration Type	3 Certification Method*	4 Assembly Method	5 Area ft²	6 Overall U-factor	7 Overall SHGC	8 Overall VT	9 Confirmed Pass	10 Confirmed Fail
Name= Double Pan Metal Clear	Vertical Fenestration	Default/Prescriptive	Default	231	0.73	0.73	0.77	☐	☐

*Select Default/Prescriptive when base or window NFRC value conditions are met. NFRC default values found in Table 110.6-A. Center of glass (COG) values can be for glass only, determined by the manufacturer, and not always the total window unit certification. Use each dimension value and calculate an Area-weighted Average Value when more than one window is in the product.
Notes: A - New, E - Altered, C - Existing

Tabing compliance credit for fenestration shading devices? (If "Yes", see NRCC-PRF-ENV-DETAILS for more information) No

J. OPAQUE SURFACE ASSEMBLY SUMMARY § 110.7 / § 140.3

1 Surface Name	2 Surface Type	3 Area ft²	4 Framing & Cavity	5 Continuous R-Value	6 U-Factor / F-Factor	7 Confirmed Pass	8 Confirmed Fail
R-19 Wall11	Exterior Wall	1677	Wood 19	NA	U-Factor: 0.072	☐	☐
R-10 Roof Cathedral11	Roof	894	Wood 19	NA	U-Factor: 0.052	☐	☐
Uninsulated Raised Slab F11	Exterior Floor	1183	Wood 19	NA	U-Factor: 0.099	☐	☐
R-19 Wall111	Interior Wall	1903	Wood 19	NA	U-Factor: 0.089	☐	☐
Slab On Grade10	Underground Floor	1898	N/A 0	NA	U-Factor: 0.730	☐	☐

Notes: A - New, E - Altered, C - Existing

L. ROOFING PRODUCT SUMMARY § 140.3

1 Product Type	2 Product Density (lb/ft³)	3 Aged Solar Reflectance	4 Thermal Emittance	5 SRI	6 Cool Roof Credit	7 Roofing Product Description	8 Confirmed Pass	9 Confirmed Fail
R-10 Roof Cathedral11	0.9200	0.00	0.75	NA	No	NA	☐	☐

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M. HVAC SYSTEMS SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) § 110.1 / § 110.2

Dry System Equipment - (Fan & Evaporator info included below in Table N)

1 Equip Name	2 Equip Type	3 System Type (Simple, TV, Complex *)	4 Qty	5 Total Heating Input (kBtu/h)	6 Type Heat Source (NCM)	7 Total Heat Input (kBtu/h)	8 Total Cooling Output (kBtu/h)	9 Efficiency	10 Acceptance Testing Required? (Y/N)	11 Confirmed Pass	Confirmed Fail
								Cooling / Heating			
HP-S/PC-1	1.5HP Split (Phase)	Simple	1	22	Yes	0	17	SEER 15.5 / EER 13.0	HSPF-10.2	No	☐
HP-S/PC-4	1.5HP Split (Phase)	Simple	1	22	Yes	0	17	SEER 15.5 / EER 13.0	HSPF-10.2	No	☐

Wet System Equipment

12 Equip Name	13 Equip Type	14 Qty	15 Fan Type	16 Rated Capacity (kBtu/h)	17 Efficiency	18 Standby Loss	19 Cut In Value	20 Units	21 Pump Type	22 Pump HP	23 Pump Head (ft)	24 Confirmed Pass	Confirmed Fail
Blower, PSC (0.5-1.75HP) (CC)	Storage	1	NC	15	31.0 EGE	%	NA	NA	NA	No	%	☐	☐

* Per Section Explanation Include Exhaust, or Heating only, HRV Series, etc.
** Fan Type Options: Constant Volume (CV), Variable Volume (VV), Fan Coil (FC), Other
Heat Source Options: Heat Pump (HP), Furnace (F), Boiler (B), Other
Complex Systems must complete HRV, VRV, DX, and economizing design review (Yes)
Acceptance Testing Required? Yes or No
If a minimum of which an outdoor unit, no applicable is accepted in NRCI-MCH-01-E)
Notes: A - New, E - Altered, C - Existing

Discrepancy between modeled and designed equipment sizing? (If "Yes", see Table 8 "Additional Remarks" for an explanation) No

N. ECONOMIZER & FAN SYSTEMS SUMMARY* § 140.4

1 Equip Name	2 Outside Air CFM	3 Supply Fan CFM	4 Supply Fan HP	5 Supply Fan BHP	6 Supply Fan Motor Efficiency (Default per NAC)	7 Supply Fan Control	8 Return Fan CFM	9 Return Fan HP	10 Return Fan BHP	11 Return Fan Motor Efficiency (Default per NAC)	12 Return Fan Control	13 Economizer Type (if present)	14 Confirmed Pass	15 Confirmed Fail
HP-S/PC-1	165	670	0.500	0.500	0.85	Constant Volume	N/A	N/A	N/A	N/A	N/A	NoEconomizer	☐	☐

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N. ECONOMIZER & FAN SYSTEMS SUMMARY* § 140.4

1	2	3				4				5	6	7	Confirmed Pass	Confirmed Fail
	Outside Air	Supply Fan				Return Fan								
Equip Name	CFM	CFM	HP	BHP	TSP (inch WC)	Control	CFM	HP	BHP	TSP (inch WC)	Control	Economizer Type (if present)		
HP-S/PC-4	165	670	0.500	0.500	0.85	ConstantVolume	N/A	N/A	N/A	N/A	N/A	NoEconomizer	☐	☐

* Enter one row for each supply fan. Multiple fans serving the same space may be combined.
Fan motor efficiency calculations and values may be included in the NRCI-MCH-02-E Form.

O. EQUIPMENT CONTROLS § 110.2 Confirmed

1 Equip Name	2 Equip Type	3 Controls	4 Confirmed Pass	5 Confirmed Fail
HP-S/PC-1	1.5HP	Per JA11 Controls: Per Economizer Fan Supply Air Temp Control: Per Optimum Start:	☐	☐
HP-S/PC-4	1.5HP	Per JA11 Controls: Per Economizer Fan Supply Air Temp Control: Per Optimum Start:	☐	☐
VAV-12 - VAV	Service Hot Water, Primary Only	Fixed Temperature Control, No DDC	☐	☐

P. SYSTEM DISTRIBUTION SUMMARY § 120.4 / § 140.4(l)

1	2	3 Fluid System Distribution				4	5 Confirmed Pass	6 Confirmed Fail
Equip Name	Equip Type	Duct Leakage and Sealing Required per 140.4(l)	Duct Leakage will be verified per NAC and NA2	Insulation R Value	Location	Pipe Insulation Required per Table 120.3-A		
HP-S/PC-1	1.5HP	No	No	0	None	No		
HP-S/PC-4	1.5HP	No	No	0	None	No		

Does the Project Include Zonal Systems? (If "Yes", see NRCI-PRF-MCH-DETAILS for system information) No
Does the Project Include a Solar Hot Water System? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information) No

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A. UNDERHANG DETAILS (Adapted from NRCC-ENV-02-E)

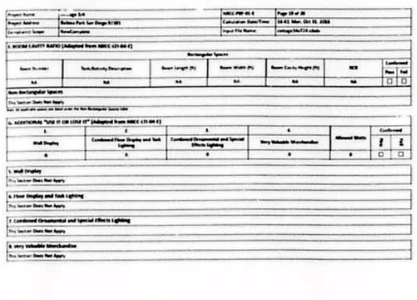
1 Fenestration Tag/ID	2 Fenestration Orientation	3 Overhang Dimensions: Horizontal Projection	3 Overhang Dimensions: Distance Above Window	4 Side fin: Vertical Projection	5 Confirmed Pass	6 Confirmed Fail
W-Windows 219	West	1.0 ft	1.5 ft	Left: 2.0 ft, Right: 0 ft,	☐	☐
N-Door/Windows 78	North	2.5 ft	0.0 ft	Left: 0 ft, Right: 13.5 ft,	☐	☐
N-Windows 77	North	2.5 ft	1.5 ft	Left: 0 ft, Right: 13.5 ft,	☐	☐
S-Windows 141	South	1.0 ft	1.5 ft	Left: 0 ft, Right: 0 ft,	☐	☐
S-Windows 142	South	1.0 ft	1.5 ft	Left: 0 ft, Right: 0.0 ft,	☐	☐

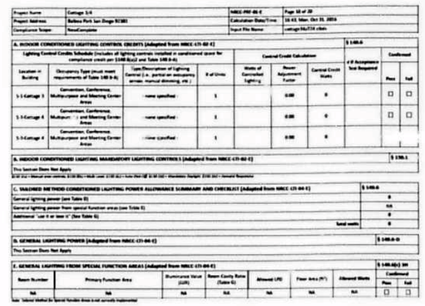
C. OPAQUE DOOR SUMMARY
This Section Does Not Apply

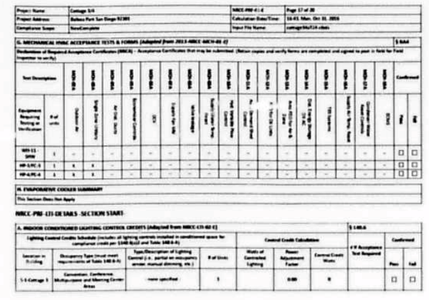
NRCC-PRF-MCH-DETAILS SECTION START

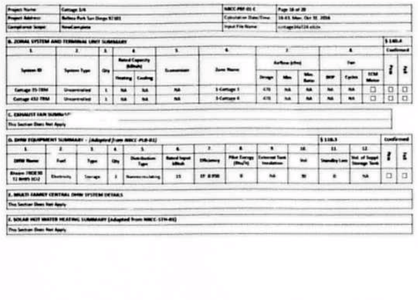
A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2013 NRCC-MCH-03-E) Confirmed

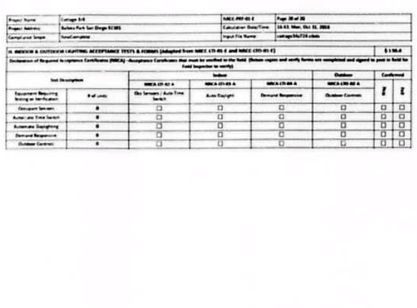
| 1 DESIGN AIR FLOWS | | | | | | | | | | | | | | | | 2 VENTILATION (LOB 1) | | | | | | | | | | | | | | | |

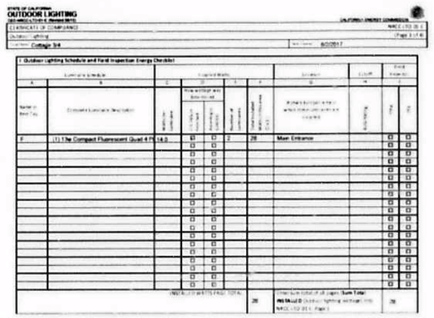


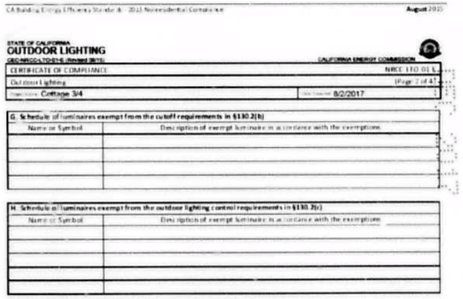


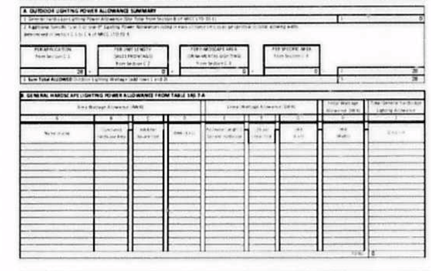


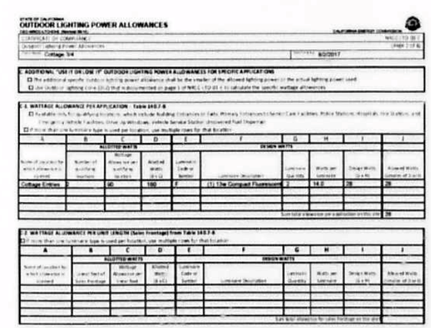


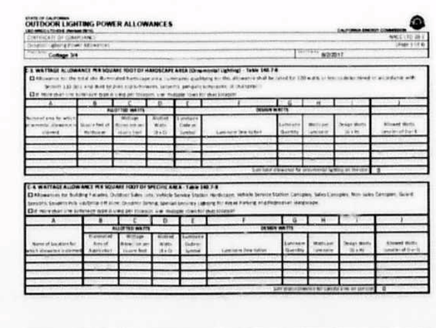












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Consulting Engineers
project number 14057 engsysMatt.net

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING 633 FIFTH AVENUE SAN DIEGO CALIFORNIA 92101 (619) 239-7900 FAX (619) 234-6280

JUNE 26, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

ENERGY CODE FORMS - COTTAGE 3/4

SHEET TITLE:

SHEET NUMBER: EN2.2

LAMBERT COORDINATES: 204-1721

THOMAS BROTHERS PAGE: 60, D-6

(PSD #)

Project Name:	Cottage 5/6	NRCC-PRF-01-E	Page 1 of 19
Project Address:	Balboa Park San Diego 92101	Calculation Date/Time:	10:55, Mon, Oct 31, 2016
Compliance Scope:	NewConstruction	Input File Name:	cottage5&6724.cibd5

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (MECH/MCH/MCV) –
Use documentation author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Certificates of Installation, Certificates of Acceptance, and Certificates of Verification)
(Certificate copies and verify forms are completed and signed to post on field for field inspector to verify).
See Tables G and H in 6HCM and 6TI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms (required for submittal)	Confirmed: Pass	Confirmed: Test
Envelope	☐ NRCI-ENV-01-E - For all buildings	☐	☐
	☐ NRCI-ENV-02-E - NFRC Label Certificate for Fenestration	☐	☐
	☒ NRCI-MCH-01-E - For all buildings with Mechanical Systems	☐	☐
Mechanical	☐ NRCA-MCH-02-A - Outdoor Air	☐	☐
	☐ NRCA-MCH-03-A - Constant Volume Single Zone HVAC	☐	☐
	☐ NRCA-MCH-04-A - Air Distribution Duct Leakage	☐	☐
	☐ NRCA-MCH-05-A - Air Economizer Controls	☐	☐
	☐ NRCA-MCH-06-A - Demand Control Ventilation	☐	☐
	☐ NRCA-MCH-07-A - Supply Fan Variable Flow Controls	☐	☐
	☐ NRCA-MCH-08-A - Valve Leakage Test	☐	☐
	☐ NRCA-MCH-09-A - Supply Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-10-A - Hydronic System Variable Flow Controls	☐	☐
	☐ NRCA-MCH-11-A - Auto Demand Shed Controls	☐	☐
	☐ NRCA-MCH-12-A - Packaged Direct Expansion Units	☐	☐
	☐ NRCA-MCH-13-A - Air Handling Units and Zone Terminal Units	☐	☐
	☐ NRCA-MCH-14-A - Distributed Energy Storage	☐	☐
	☐ NRCA-MCH-15-A - Thermal Energy Storage	☐	☐
	☐ NRCA-MCH-16-A - Supply Air Temp Reset Controls	☐	☐
	☐ NRCA-MCH-17-A - Condensate Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-18-A - Energy Management Control Systems	☐	☐
	☐ NRCI-MCH-04-H - Duct Leakage Test	☐	☐

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Compliance Scope:	NewConstruction	Input File Name:	cottage5&6724.cibd5

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building component(s) are eligible for prescriptive compliance. Indicate which are relevant to the project.

Yes	NA	Prescriptive Requirement	Compliance Forms
☒	☐	Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-03 / 02 / 03 / 04 / 05-E
☒	☐	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E
☐	☒	Lighting (Sign) §140.8	NRCC-LTI-03-E
☐	☒	Solar Thermal Water Heating §140.5	NRCC-STH-01-E

The following building component(s) may have mandatory requirements per Part 6. Indicate which are relevant to the project.

Yes	NA	Mandatory Requirement	Compliance Forms
☐	☐	Lumen Limiting §120.6 Simple Systems Complex Systems	NRCC-LTI-03 / 02 / 03 / 04 / 05-E NRCC-LTI-03-02 / 02 / 04 / 05-E
☐	☐	Electrical §130.1	NRCC-ELC-02-E
☐	☐	Test Ready §110.10	NRCI-TRA-01 / 02-E
☐	☐	Demand Process §120.8 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-01-E NRCI-PRC-02-E NRCI-PRC-03-E NRCI-PRC-04/07/08-E NRCC-PRC-03-E NRCC-PRC-12-E

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Compliance Scope:	NewConstruction	Input File Name:	cottage5&6724.cibd5

G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "N/A" is not in project.
For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component	Compliance Path	Compliance Forms (required for submittal)	Location of Mandatory Notes on Plans
Envelope	☐ Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05 / 06-E	
	☐ N/A		
Mechanical	☒ Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐ N/A		
Domestic Hot Water	☐ Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PLB-01-E	
	☐ N/A		
Lighting (Indoor Conditioned)	☐ Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☐ N/A		
Covered Process: Commercial Kitchens	☐ Performance	12 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01, 03-E	
	☒ N/A		
Covered Process: Computer Rooms	☐ Performance	13 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-02, 03-E	
	☒ N/A		
Covered Process: Laboratory Exhaust	☐ Performance	14 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-11, 03-E	
	☒ N/A		

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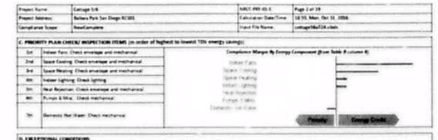
Compliance Scope:	NewConstruction	Input File Name:	cottage5&6724.cibd5

C. PRIORITY PLAN CHECK/ INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Indoor Fans: Check envelope and mechanical	
2nd	Space Cooling: Check envelope and mechanical	
3rd	Space Heating: Check envelope and mechanical	
4th	Indoor Lighting: Check lighting	
5th	Heat Rejection: Check envelope and mechanical	
6th	Pumps & Misc.: Check mechanical	
7th	Domestic Hot Water: Check mechanical	

Compliance Margin By Energy Component (Even Solid If column 4)



D. EXCEPTIONAL CONDITIONS

This project includes Domestic Hot Water in the analysis. Please verify that Domestic Hot Water is included in the design for the permitted scope of work.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None Provided

CA Building Energy Efficiency Standards: 2013 Nonresidential Compliance — Report Version: NRCC-PRF-01-E-08(C)2016.3991 — Report Generated at: 2016-10-31 18:55:36

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Compliance Scope:	NewConstruction	Input File Name:	cottage5&6724.cibd5

A. PROJECT GENERAL INFORMATION

1	Project Location (city)	San Diego	9	Standards Version	Compliance2013
2	CA Zip Code	92101	9	Compliance Software (version)	EnergyPro 6.5
3	Climate Zone	7	10	Building Orientation (deg)	90 (E-W)
4	Total Conditioned Floor Area in Scope	878 ft²	11	Permitted Scope of Work	NewConstruction
5	Total Unconditioned Floor Area	1,361 ft²	12	Building Type(s)	Nonresidential
6	Total # of Stories (Rationale Above Grade)	1	13	Site Type	Private
7	Total # of dwelling units	0			

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² / yr) — § 140.1

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	9.8	9.8	0.1	1.1%
Space Cooling	106.7	13.6	7.1	6.7%
Indoor Fans	252.8	24.9	127.9	50.7%
Heat Rejection	-	-	-	-
Pumps & Misc.	-	-	-	-
Domestic Hot Water	-	-	-	-
Indoor Lighting	154.2	98.1	56.1	36.3%
COMPLIANCE TOTAL	423.9	252.8	216.9	59.8%
Receptacle	96.0	96.0	0.0	0.0%
Process	-	-	-	-
Other	-	-	-	-
TOTAL	523.9	348.8	216.9	41.7%

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (MECH/MCH/MCV) –
Use documentation author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Certificates of Installation, Certificates of Acceptance, and Certificates of Verification)
(Certificate copies and verify forms are completed and signed to post on field for field inspector to verify).
See Tables G and H in 6HCM and 6TI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms (required for submittal)	Confirmed: Pass	Confirmed: Test
Plumbing	☐ NRCI-PLB-01-E - For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCI-PLB-24-E - HERS-verified single dwelling unit systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCI-PLB-25-E - HERS-verified central systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCI-PLB-22-E - HERS-verified single dwelling unit systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCI-PLB-23-E - HERS-verified central systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCI-PLB-22-H - HERS-verified single dwelling unit systems in high-rise residential, hotel/motel applications	☐	☐
Indoor Lighting	☐ NRCI-ENV-01-E - Any solar water heating	☐	☐
	☐ NRCI-LTI-01-E - For all buildings	☐	☐
	☐ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting, integral current limiter, or for a supplementary overcurrent protection panel used to energize wiring track lighting	☐	☐
	☐ NRCI-LTI-04-E - Task interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCA-LTI-06-A - Additional wattage installed in a video conferencing studio	☐	☐
	☐ NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls	☐	☐
Outdoor Lighting	☐ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
	☐ NRCI-LTO-01-E - Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E - EMCS Lighting Control System	☐	☐
	☐ NRCA-LTO-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTI-03-E - Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

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Compliance Scope:	NewConstruction	Input File Name:	cottage5&6724.cibd5

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (MECH/MCH/MCV) –
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(Certificate copies and verify forms are completed and signed to post on field for field inspector to verify).
See Tables G and H in 6HCM and 6TI Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms (required for submittal)	Confirmed: Pass	Confirmed: Test
Covered Process	☐ NRCI-PRC-01-E Refrigerated Warehouse	☐	☐
	☐ NRCI-PRC-02-E Commercial Air Systems	☐	☐
	☐ NRCI-PRC-03-E Kitchen Exhaust	☐	☐
	☐ NRCI-PRC-04-E Garage Exhaust	☐	☐
	☐ NRCI-PRC-06-E Refrigerated Warehouse: Evaporator Fan Motor Controls	☐	☐
	☐ NRCI-PRC-07-E Refrigerated Warehouse: Evaporative Condenser Controls	☐	☐
	☐ NRCI-PRC-08-E Refrigerated Warehouse: Air Cooled Condenser Controls	☐	☐
	☐ NRCI-PRC-07-E Refrigerated Warehouse: Variable Speed Compressor	☐	☐
	☐ NRCI-PRC-08-E Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE GENERAL INFORMATION (Use NRCC-PRF-ENV-DETAILS for more information) — Confirmed

1.	Total Conditioned Floor Area	878 ft²	5.	Number of Floors Above Grade	1
2.	Total Unconditioned Floor Area	1,361 ft²	6.	Number of Floors Below Grade	0
3.	Addition Conditioned Floor Area	0 ft²			
4.	Addition Unconditioned Floor Area	0 ft²			

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio
North Wall	320 ft²	72 ft²	22.5%
East Wall	358 ft²	44 ft²	12.3%
South Wall	358 ft²	48 ft²	13.3%
West Wall	365 ft²	70 ft²	19.4%
Total	1,367 ft²	233 ft²	17.0%
Roof	878 ft²	0 ft²	00.0%

CA Building Energy Efficiency Standards: 2013 Nonresidential Compliance — Report Version: NRCC-PRF-01-E-08(C)2016.3991 — Report Generated at: 2016-10-31 18:55:36

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J. FENESTRATION ASSEMBLY SUMMARY — $ 110.6 — Confirmed

1	2	3	4	5	6	7	8	Confirmed: Pass	Confirmed: Test
Fenestration Assembly Name / Tag on 1-D	Fenestration Type	Certification Method	Assembly Method	Area ft²	Overall U-Factor	Overall SHGC	Overall VT		
Narrow, Double Pane Metal Clear	Vertical Fenestration	Default/Pre-Simulated	Default	218	0.73	0.77	0.71	☐	☐

* Assembly Name shown above shall have a window NFRC label certificate or use the CF Default table shown in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass only, determined by the manufacturer, and are shown for area of no thicker. Use both frame and center-of-glass values, or manufacturer-specified whole unit values in the calculations.
† Status: N - New, E - Altered, C - Existing

Taking compliance credit for fenestration shading devices? (If "Yes", see NRCC-PRF-ENV-DETAILS for more information)	Yes

K. OPAQUE SURFACE ASSEMBLY SUMMARY — $ 110.6 / § 140.3 — Confirmed

1	2	3	4	5	6	7	8	Confirmed: Pass	Confirmed: Test
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	Overall U-Factor / F-Factor	Status†		
R-19 Wall12	Exterior Wall	1351	Wood	19	N/A	U-Factor: 0.072	N	☐	☐
R-19 Roof Cathedral13	Roof	874	Wood	19	N/A	U-Factor: 0.051	N	☐	☐
Uninsulated Raised Slab F22	Exterior Floor	2,298	Wood	19	N/A	U-Factor: 0.059	N	☐	☐
R-19 Wall21	Interior Wall	2961	Wood	19	N/A	U-Factor: 0.068	N	☐	☐
Slab On Grade01	Underground Floor	1130	N/A	0	N/A	F-Factor: 0.730	N	☐	☐

Status: N - New, E - Altered, C - Existing

L. ROOFING PRODUCT SUMMARY — § 140.3 — Confirmed

1	2	3	4	5	6	7	Confirmed: Pass	Confirmed: Test
Product Type	Prod. ID / Directory (Dc/Nº)	Aged Solar Reflectance	Thermal Emittance	SRI	Cool Roof Credit	Roofing Product Description		
R-19 Roof Cathedral13	61000	0.08	0.75	N/A	No	N/A	☐	☐

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M. HVAC SYSTEMS SUMMARY (see NRCC-PRF-MCH-DETAILS for more information) — § 110.1 / § 110.2

Dry System Equipment (For A Economizer info included below in Table N)

1	2	3	4	5	6	7	8	9	10	Confirmed: Pass	Confirmed: Test
Equip Name	Equip Type	System Type (Simple * or Complex **)	Qty.	Total Heating Output (kBtu/h)	Total Heat Source (HP#)	Input Heat Output (kBtu/h)	Total Cooling Output (kBtu/h)	Efficiency	Acceptance Testing Required? (Y/N)		
								Cooling	Heating		
HP-5/PC-1	12HP Split (Private)	Simple	1	22	Yes	0	17	EER 20.1, IEER 22.0	Yes	N	☐ ☐
HP-6/PC-4	12HP Split (Private)	Simple	1	22	Yes	0	17	EER 20.1, IEER 22.0	Yes	N	☐ ☐

Wet System Equipment

12	13	14	15	16	17	18	19	20	21	22	23	24	Confirmed: Pass	Confirmed: Test
Equip Name	Equip Type	Qty	Fed gpm	Rated Capacity (kBtu/h)	Efficiency	Accessible (Y/N)	Leak Detection Value	Pump						
								Qty	GPM	HP	VSD (Y/N)			
Blower PRO30 12 KNR-RCU	Garage	1	30	15	97 / KW	N/A	N/A	N/A	N/A	N/A	No	N	☐	☐

* For System Equipment includes economizer, air handling units, heat recovery, etc.
** Water Source Heat Pumps, chillers, cooling towers, water heaters, etc.
† Status: N - New, E - Altered, C - Existing, U - Unchanged, Change = Less than 10%
‡ Acceptance Testing Required? (Y/N) Refer to NRCA-MCH-03-A, NRCA-MCH-04-A, NRCA-MCH-05-A, NRCA-MCH-06-A, NRCA-MCH-07-A, NRCA-MCH-08-A, NRCA-MCH-09-A, NRCA-MCH-10-A, NRCA-MCH-11-A, NRCA-MCH-12-A, NRCA-MCH-13-A, NRCA-MCH-14-A, NRCA-MCH-15-A, NRCA-MCH-16-A, NRCA-MCH-17-A, NRCA-MCH-18-A, NRCI-MCH-04-H

Discrepancy between modeled and designed equipment sizing? (If "Yes" see Table F - Additional Remarks) for explanation)	No

N. ECONOMIZER & FAN SYSTEMS SUMMARY — § 140.4 — Confirmed

1	2	3					4					5	Confirmed: Pass	Confirmed: Test
Equip Name	Outside Air	Supply Fan					Return Fan					Economizer Type (if present)		
	CFM	CFM	HP	BHP	TSP (Inch WC)	Control	CFM	HP	BHP	TSP (Inch WC)	Control			
HP-5/PC-4	264	670	0.100	0.100	0.60	Constant Volume	N/A	N/A	N/A	N/A	N/A	NoEconomizer	☐	☐

* Where multiple fans serve a single system, list each fan separately.

O. EQUIPMENT CONTROLS — § 110.2 — Confirmed

1	2	3	Confirmed: Pass	Confirmed: Test
Equip Name	Equip Type	Controls		
HP-5/PC-1	12HP	No DCV Controls No Economizer No Supply Air Temp Control No Optimum Start	☐	☐
HP-6/PC-4	12HP	No DCV Controls No Economizer No Supply Air Temp Control No Optimum Start	☐	☐
SYS 11 - DHW	Service Hot Water Primary Only	Fixed Temperature Control, No DDC	☐	☐

P. SYSTEM DISTRIBUTION SUMMARY — § 110.4/ § 140.4(l) — Confirmed

1	2	3	4	5	6	Confirmed: Pass	Confirmed: Test
Equip Name	Equip Type	Duct Leakage and Sealing Required per 140.4(l)	Duct Leakage and Sealing Tested per 140.4(l)	Insulation R-Value	Location		
HP-5/PC-1	12HP	Yes	Yes	8	None	☐	☐
HP-6/PC-4	12HP	Yes	Yes	8	None	☐	☐

Does the Project include Zonal Systems? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No
Does the Project include a Solar Hot Water System? (If "Yes", see NRCC-PRF-MCH-DETAILS for system information)	No

CA Building Energy Efficiency Standards: 2013 Nonresidential Compliance — Report Version: NRCC-PRF-01-E-08(C)2016.3991 — Report Generated at: 2016-10-31 18:55:36

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Compliance Scope:	NewConstruction	Input File Name:	cottage5&6724.cibd5

C. OPAQUE DOOR SUMMARY

This Section Does Not Apply

NRCC-PRF-MCH-DETAILS SECTION START

A. MECHANICAL VENTILATION AND REHEAT (Adapted from 2013 NRCC-MCH-03-E) — Confirmed

1. DESIGN AIR FLOWS												2. VENTILATION (§ 120.1)												Confirmed: Pass	Confirmed: Test
CONDITIONED ZONE NAME	SUPPLY FAN AIRFLOW (CFM)	HEATING AIRFLOW (CFM)	COOLING AIRFLOW (CFM)	MINIMUM OUTDOOR AIRFLOW (CFM)	MINIMUM AIR CHANGES PER HOUR	MINIMUM OUTDOOR AIR (CFM)	OUTDOOR AIR INTAKE	EXHAUST FANS	TERMINAL BOX MINIMUM AIRFLOW (CFM)	HEATING MAXIMUM AIRFLOW (CFM)	TERMINAL BOX MAXIMUM AIRFLOW (CFM)	DESIGN OCCUPANT	OUTDOOR AIR INTAKE	EXHAUST FANS	OCCUPANT DIVERSITY	MINIMUM OUTDOOR AIR (CFM)	VENTILATION AIR							
1 Cottage 1	HP-5/PC-1	670	NA	NA	NA	NA	N	HP-5/PC-1	667	NA	35	13.0	264	264	NA	N	☐	☐
2 Cottage 6	HP-6/PC-4	670	NA	NA	NA	NA	N	HP-6/PC-4	667	NA	35	13.0	264	264	NA	N	☐	☐
								TOTAL	1,334			NA			NA	NA	NA					☐	☐

B. P-TAC SYSTEM AND TERMINAL UNIT SUMMARY — § 140.4 — Confirmed

1	2	3	4		5	6	7			8		Confirmed: Pass	Confirmed: Test
System ID	System Type	Qty	Rated Capacity (kBtu/h)		Economizer	Zone Name	Airflow (cfm)			Fan			
			Heating	Cooling			Design	Min.	Min. Ratio	BHP	Cycles	ECM Motor	
Cottage 1/5 TPAC	Unconditioned	1	NA	NA	NA	1 Cottage 1	670	NA	NA	NA	NA	☐	☐
Cottage 6/2 TPAC	Unconditioned	1	NA	NA	NA	2 Cottage 6	670	NA	NA	NA	NA	☐	☐

C. EXHAUST FAN SUMMARY

This Section Does Not Apply

CA Building Energy Efficiency Standards: 2013 Nonresidential Compliance — Report Version: NRCC-PRF-01-E-08(C)2016.3991 — Report Generated at: 2016-10-31 18:55:36

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NRCC-PRF-ENV-DETAILS SECTION START

A. OPAQUE SURFACE ASSEMBLY DETAILS — Confirmed

1	2	3	4	Confirmed: Pass	Confirmed: Test
Surface Name	Surface Type	Description of Assembly Layers	Notes		
R-19 Wall12	Exterior Wall	Source : 1 IN in Layer permeable Yes? : 1.0 in Wood Framed wall (Nov. 06, 1 Src : R-19 System Found : 1.0 in		☐	☐
R-19 Roof Cathedral13	Roof	Asphalt shingles : 1.0 in Layer permeable Yes? : 1.0 in Plywood : 1.0 in Air Cavity - Roof Roof Ceiling : 4 in. or more Wood Framed roof (Nov. 06, 1 Src : R-19 System Found : 1.0 in		☐	☐
Uninsulated Raised Slab F22	Exterior Floor	Air Floor : 1.0 in Wood Framed floor (Nov. 06, 1 Src : R-13 Plywood : 1.0 in Carpet : 1.0 in		☐	☐
R-19 Wall21	Interior Wall	Source : 1.0 in Layer permeable Yes? : 1.0 in Wood Framed wall (Nov. 06, 1 Src : R-19 System Found : 1.0 in		☐	☐
Slab On Grade01	Underground Floor	Slab Type : Uninsulated Underslab Insulated Orientation : None Insulation R-Value : R0		☐	☐

B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E) — Confirmed

1	2	3		4	Confirmed: Pass	Confirmed: Test
		Overhang Dimensions				
Fenestration Tag/ID	Fenestration Orientation	Horizontal Projection	Distance Above Window	Side fin Vertical Projection		
R-Dec-Windows13	North	1.5 ft.	0.0 ft.	Left: 0 ft., Right: 0 ft.	☐	☐
1 Windows 257	South	1.0 ft.	2.5 ft.	Left: 1.0 ft., Right: 0 ft.	☐	☐
R-W-Windows26	West	1.0 ft.	1.5 ft.	Left: 0 ft., Right: 0 ft.	☐	☐

CA Building Energy Efficiency Standards: 2013 Nonresidential Compliance — Report Version: NRCC-PRF-01-E-08(C)2016.3991 — Report Generated at: 2016-10-31 18:55:36

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT — § 10-103

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Greg Mess	Signature:
Company: Engineered Systems	Signature Date:
Address: PO Box 2188	CEA Identification (if applicable):
City/State/Zip: Spring Valley, CA 91979	
Phone: 619-825-7548	

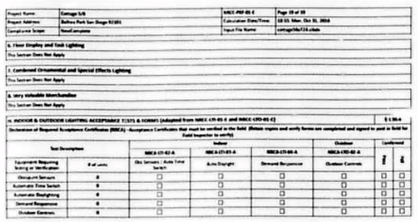
RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. I certify that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am licensed in the State of California as a civil engineer, mechanical engineer, electrical engineer, or I am a licensed architect.
2. I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation, and that I am a licensed contractor performing this work.
3. I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

Responsible Envelope Designer Name: F David Marshall	Signature:
Company: Heritage Architecture & Planning	Date Signed:
Address: 833 Fifth Avenue	Declaration Statement Type:
City/State/Zip: San Diego CA 92101	Title: License #:
Phone: 619-239-7000	
Responsible Lighting Designer Name: Anthony Roush	Signature: 01/24/2017
Company: Wattsun Inc	Date Signed:
Address: 4676 Mission Gorge Pl. Ste. 200-A	Declaration Statement Type:
City/State/Zip: San Diego CA 92120	Title: License #: 019858
Phone: 619-794-3196	
Responsible Mechanical Designer Name: William Tolver	Signature:
Company: Engineered Systems	Date Signed:
Address: PO Box 2188	Declaration Statement Type:
City/State/Zip: Spring Valley CA 91979	Title: License #: 107859
Phone: 619-825-7548	

CA Building Energy Efficiency Standards: 2013 Nonresidential Compliance — Report Version: NRCC-PRF-



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Compliance Scope:	New/Complete	Input File Name:	cottage5&6714.cibdx

G. Floor Display and Task Lighting

This Section Does Not Apply

I. Conditioned Ornamental and Special Effects Lighting

This Section Does Not Apply

K. Very Valuable Merchandise

This Section Does Not Apply

M. INDOOR & OUTDOOR LIGHTING ACCEPTANCE TESTS & FORMS (Adapted from NRCC-ITE-01-E and NRCC-LTO-01-E) — $ 1,164

Declaration of Required Acceptance Certificates (NRCA) - Acceptance Certificates that must be verified as the field. (Retain copies and verify forms are completed and signed to post in field for field inspector to verify)

Test Description	Indoor			Outdoor	Confirmed	
Equipment Requiring Testing or Verification	# of units	NRCA-LTI-02-A (No Sensors / Auto Time Switch)	NRCA-LTI-03-A Auto Daylight	NRCA-LTI-04-A Demand Responsive	NRCA-LTO-02-A Outdoor Controls	Pass	Fail
Occupant Sensors	0	☐	☐	☐	☐	☐	☐
Automatic Time Switch	0	☐	☐	☐	☐	☐	☐
Automatic Daylighting	0	☐	☐	☐	☐	☐	☐
Demand Responsive	0	☐	☐	☐	☐	☐	☐
Outdoor Controls	0	☐	☐	☐	☐	☐	☐

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Compliance Scope:	New/Complete	Input File Name:	cottage5&6714.cibdx

C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E) — $ 149.6

Sand walls: 0

D. GENERAL LIGHTING POWER (Adapted from NRCC-LTI-04-E) — $ 149.6-0

This Section Does Not Apply

E. GENERAL LIGHTING FROM SPECIAL FUNCTION AREAS (Adapted from NRCC-LTI-04-E) — $ 149.6[1] SH

Room Number	Primary Function Area	Multifamily Area (SqFt)	Room Cavity Ratio (Table 5)	Allowed LPD	Floor Area (ft²)	Allowed Watts	Confirmed: Pass	Confirmed: Fail
NA	NA	NA	NA	NA	NA	NA	☐	☐

Use Tailored Method for small Hotels (less than 10 units) instead

I. ROOM CAVITY RATIO (Adapted from NRCC-LTI-04-E)

Rectangular Spaces						Confirmed	
Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Pass	Fail
NA	NA	NA	NA	NA	NA	☐	☐

Non-Rectangular Spaces

This Section Does Not Apply

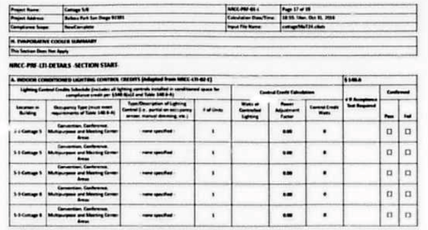
Use 'A' outside space on first walk to for Rectangle Spaces table

K. ADDITIONAL "USE IT OR LOSE IT" (Adapted from NRCC-LTI-04-E)

1. Wall Display	2. Combined Floor Display and Task Lighting	3. Combined Ornamental and Special Effects Lighting	4. Very Valuable Merchandise	Allowed Watts	Confirmed: Pass	Confirmed: Fail
0	0	0	0	0	☐	☐

L. Wall Display

This Section Does Not Apply



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Compliance Scope:	New/Complete	Input File Name:	cottage5&6714.cibdx

H. TURNOVER CODE SUMMARY

This Section Does Not Apply

NRCC-PRF-01-E DETAILS SECTION START

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) — $ 148.6

Lighting Control Credits: Schedule (includes all lighting controls installed or reconfigured space for compliance credit per §140.6(a)2 and Table 140.6-A)									Confirmed: Pass	Confirmed: Fail
Location in Building	Occupancy Type (must meet requirements of Table 140.6-A)	# of Units	Control Credit Calculation: Wall or Controlled Lighting	Control Credit Calculation: Daylighting Adjustment Factor	Control Credit Calculation: Control Credit Watts	# of Acceptance Test Required				
1-1 Cottage 5	Multipurpose and Meeting Center Area	none specified	1		0.00	0			☐	☐

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Compliance Scope:	New/Complete	Input File Name:	cottage78a724.ribd6

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) -
Doc orientation author to indicate which Certificates must be submitted for the features to be recognized for compliance
Certain copiers and verify forms are completed and signed to post in field for field inspector to verify).
See Tables G and H in 8CH and IT Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms (required for submittal)	Confirmed: Pass	Confirmed: Fail
Envelope	☐ NRCI-ENV-01-E - For all buildings	☐	☐
	☐ NRCA-ENV-02-F - NFRC Low-rise Rubber for Fenestration	☐	☐
	☐ NRCI-MCH-01-E - For all buildings with Mechanical Systems	☐	☐
	☑ NRCA-MCH-02-E - Outdoor Air	☐	☐
	☐ NRCA-MCH-03-A - Constant Volume Single Zone HVAC	☐	☐
	☐ NRCA-MCH-04-A - Air Distribution Duct Leakage	☐	☐
	☐ NRCA-MCH-05-A - Air Economizer Controls	☐	☐
	☐ NRCA-MCH-06-A - Demand Control Ventilation	☐	☐
	☐ NRCA-MCH-07-A - Supply Fan Variable Flow Controls	☐	☐
	☐ NRCA-MCH-08-A - Valve Leakage Test	☐	☐
	☐ NRCA-MCH-09-A - Supply Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-10-A - Hydronic System Variable Flow Controls	☐	☐
	☐ NRCA-MCH-11-A - Auto Demand Shed Controls	☐	☐
	☐ NRCA-MCH-12-A - Packaged Direct Expansion Units	☐	☐
	☐ NRCA-MCH-13-A - Air Handling Units and Zone Terminal Units	☐	☐
	☐ NRCA-MCH-14-A - Distributed Energy Storage	☐	☐
	☐ NRCA-MCH-15-A - Thermal Energy Storage	☐	☐
	☐ NRCA-MCH-16-A - Supply Air Temp Reset Controls	☐	☐
	☐ NRCA-MCH-17-A - Condensate Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-18-A - Energy Management Control Systems	☐	☐
	☐ NRCV-MCH-04-H - Duct Leakage Test	☐	☐
Mechanical		☐	☐

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components are only eligible for prescriptive compliance. Indicate which are which are relevant to the project.

Yes	NA	Prescriptive Requirement	Compliance Forms
☐	☐	Lighting Interior (Installed LLMD)	NRCC-LTI-01 / 02 / 03 / 04 / 05-E
☐	☐	Lighting (Outdoor) LLMD	NRCC-LTO-01 / 02 / 03-E
☐	☐	Lighting (Sign) LLMD	NRCC-LTS-01-E
☐	☐	Solar Thermal Water Heating SLMD	NRCC-STH-01-E

The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project.

Yes	NA	Mandatory Requirement	Compliance Forms
☐	☐	Commissioning 120.8	
		Simple Systems	NRCC-CXR-01 / 02 / 03 / 05-E
		Complex Systems	NRCC-CXR-01 / 02 / 04 / 05-E
☐	☐	Electrical 130.5	NRCC-ELC-01-E
☐	☐	Solar Ready 110.10	NRCI-SRA-01 / 02-E
☐	☐	Covered Process 120.6	NRCC-PRC-02-E
		Parking Garage	NRCC-PRC-03-E
		Commercial Refrigerated Warehouse Refrigeration	NRCC-PRC-04-E
		Compressed Air	NRCC-PRC-05-E
		Process Boilers	NRCC-PRC-06-E

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G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components use the performance or prescriptive path for compliance. "N/A" is not a project.
For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans.

Building Component	Compliance Path	Compliance Forms (required for submittal)	Mandatory Notes on Plans
Envelope	☑ Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-ENV-02 / 02 / 03 / 04 / 05 / 06-E	
	☐ N/A		
Mechanical	☑ Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐ N/A		
Domestic Hot Water	☑ Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PLB-02-E	
	☐ N/A		
Lighting (Indoor Constrained)	☑ Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E	
	☐ N/A		
Covered Process: Commercial Kitchens	☐ Performance	12 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-01-E	
	☑ N/A		
Covered Process: Computer Rooms	☐ Performance	13 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-02-E	
	☑ N/A		
Covered Process: Laboratory Exhaust	☐ Performance	14 (section of the NRCC-PRF-01-E)	
	☐ Prescriptive	NRCC-PRC-03-E	
	☑ N/A		

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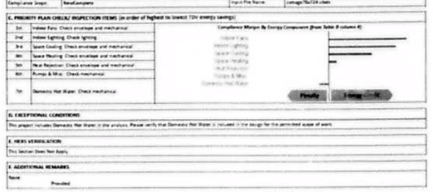
E. PREDICTED FLEXIBILITY RATING (OPTIONAL)

Int	Indoor Fans: Check envelope and mechanical
2nd	Indoor Lighting: Check lighting
3rd	Space Cooling: Check envelope and mechanical
4th	Space Heating: Check envelope and mechanical
5th	Hour Reservoir: Check envelope and mechanical
6th	Pumps & Misc.: Check mechanical
7th	Domestic Hot Water: Check mechanical



F. EXCEPTIONAL CONDITIONS

This project includes Domestic Hot Water in the analysis. Please verify that Domestic Hot Water is included in the design for the permitted scope of work.

E. HERS VERIFICATION

This Section Does Not Apply.

F. ADDITIONAL REMARKS

None

Provided

Project Name:	Cottage 7/8	NRCC-PRF-01-E	Page 5 of 20
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A. PROJECT GENERAL INFORMATION

1. Project Location (city)	San Diego	9. Standards Version	Compliance 2013
2. CZ Zip Code	92101	9. Compliance Software Version	EnergyPro 6.5
3. Climate Zone	7	10. Building Orientation (deg)	180 (S Bldg)
4. Total Conditioned Floor Area (+ Space)	982 ft²	11. Permitted Scope of Work	New/Complete
5. Total Unconditioned Floor Area	1,199 ft²	12. Building Use(s)	Hotel/motel/cc
6. Total # of Stories (Multizone Above Grade)	1	13. Site Type	Private
7. Total # of Dwelling Units	0		

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² yr) $ 140.1

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	20.2	7.8	12.4	61.3%
Space Cooling	107.4	73.8	33.6	31.2%
Indoor Fans	153.6	75.9	118.7	77.3%
Heat Rejection	-	-	-	-
Pumps & Misc.	-	-	-	-
Domestic Hot Water	11	10.2	15.9	10.0%
Indoor Lighting	114.2	9.7	104.5	91.5%
COMPLIANCE TOTAL	426.3	177.4	284.9	71.7%
Receptacle	94.6	94.6	0.0	0.0%
Process	-	-	-	-
Other Log	-	-	-	-
TOTAL	522.7	272.0	284.9	54.7%

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Compliance Scope:	New/Complete	Input File Name:	cottage78a724.ribd6

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) -
Doc orientation author to indicate which Certificates must be submitted for the features to be recognized for compliance
Certain copiers and verify forms are completed and signed to post in field for field inspector to verify).
See Tables G and H in 8CH and IT Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms (required for submittal)	Confirmed: Pass	Confirmed: Fail
Plumbing	☐ NRCI-PLB-01-E - For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐
	☐ NRCA-PLB-23-E - HERS verified central systems in high-rise residential, hotel/motel application	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐
	☐ NRCA-PLB-23-E - HERS verified central systems in high-rise residential, hotel/motel application	☐	☐
	☐ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐
	☐ NRCA-STH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☑ NRCI-LTI-01-E - For all buildings	☐	☐
	☐ NRCA-LTI-02-E - Lighting control systems, as for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter or for a supplementary overcurrent protection panel used to energize any line-voltage track lighting	☐	☐
	☐ NRCA-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Control Field Power Adjustment Factor (FAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☐ NRCA-LTI-02-E - Occupancy sensors and automatic time switch controls	☐	☐
	☐ NRCA-LTI-05-E - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-06-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☐ NRCI-LTO-01-E - Outdoor Lighting	☐	☐
	☐ NRCI-LTO-02-E - EMCS Lighting Control System	☐	☐
	☐ NRCA-LTO-02-E - Outdoor Lighting Controls	☐	☐
Sign Lighting	☐ NRCI-LTS-01-E - Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-SPV-01-E Photovoltaic Systems	☐	☐

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H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) -
Doc orientation author to indicate which Certificates must be submitted for the features to be recognized for compliance
Certain copiers and verify forms are completed and signed to post in field for field inspector to verify).
See Tables G and H in 8CH and IT Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms (required for submittal)	Confirmed: Pass	Confirmed: Fail
Covered Process	☐ NRCI-PRC-01-E Refrigerated Warehouse	☐	☐
	☐ NRCI-PRC-02-E - unenclosed Air Systems	☐	☐
	☐ NRCA-PRC-02-F Kitchen Exhaust	☐	☐
	☐ NRCA-PRC-03-E Garage Exhaust	☐	☐
	☐ NRCA-PRC-04-F Refrigerated Warehouse: Evaporator Fan Motor Controls	☐	☐
	☐ NRCA-PRC-05-F Refrigerated Warehouse: Evaporative Condenser Controls	☐	☐
	☐ NRCA-PRC-06-F Refrigerated Warehouse: Air Cooled Condenser Controls	☐	☐
	☐ NRCA-PRC-07-F Refrigerated Warehouse: Variable Speed Compressor	☐	☐
	☐ NRCA-PRC-08-F Electrical Resistance Underslab Heating System	☐	☐

I. ENVELOPE - GENERAL INFORMATION (see NRCC-PRF-ENV-DETAILS for more information)

1.	Total Conditioned Floor Area	982 ft²	5.	Number of Floors Above Grade	1
2.	Total Unconditioned Floor Area	1,199 ft²	6.	Number of Floors Below Grade	0
3.	Addition Conditioned Floor Area	0 ft²			
4.	Addition Unconditioned Floor Area	0 ft²			

7. Opaque Surfaces & Orientation	8. Total Gross Surface Area	9. Total Fenestration Area	10. Window to Wall Ratio
North Wall	311 ft²	45 ft²	14.5%
East Wall	288 ft²	32 ft²	11.1%
South Wall	248 ft²	34 ft²	13.7%
West Wall	273 ft²	36 ft²	13.2%
Total	1,117 ft²	207 ft²	18.5%
Roof	982 ft²	0 ft²	00.0%

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I. FENESTRATION ASSEMBLY SUMMARY $ 110.6 / $ 140.2

1. Fenestration Assembly Name / Tag or ID	2. Fenestration Type	3. Certification Method	4. Assembly Method	5. Area ft²	6. Overall U-Factor	7. Overall SHGC	8. Overall VT	9. Confirmed: Pass	9. Confirmed: Fail
Name= Double Non Metal Clear	Vertical/Horizontal	Default/Performance	Simplified	234	0.71	0.73	0.77	☐	☐

Name= Double Non Metal Clear has a window NFRC Label certificate or can be U-default values from Table 110.6-A and Table 110.6-B. Table 110.6-A and Table 110.6-B values of Table 110.6-A are the same as the default values, and are shown for ease of verification. See Section 10-111(a) for more information.

Table 10-1, Table 10-2, Table 10-3, Table 10-4

Tubing compliance credit for fenestration shading devices? (If "Yes", see NRCC-PRF-ENV-DETAILS for more information)	No

H. OPAQUE SURFACE ASSEMBLY SUMMARY $ 110.7 / $ 140.3

1. Surface Name	2. Surface Type	3. Area (ft²)	4. Framing Type	5. Cavity R-Value	6. Continuous R-Value	7. Overall U-Factor / U-Factor Adjustment Factor	8. Confirmed: Pass	8. Confirmed: Fail
R-19 Wall SS	Exterior Wall	1,103	Wood	19	N/A	U-Factor: 0.057 / 1	☐	☐
R-19 Roof Cathedral SS	Roof	982	Wood	19	N/A	U-Factor: 0.052 / 1	☐	☐
Uninsulated Raised Slab F22	Exterior Floor	1,180	Wood	19	N/A	U-Factor: 0.056 / 1	☐	☐
R-19 Wall SS1	Interior Wall	1,715	Wood	19	N/A	U-Factor: 0.065 / 1	☐	☐
Sub On Grade 28	Underground Floor	1,180	N/A	N/A	N/A	F-Factor: 0.730 / 1	☐	☐

Name= R-19 Wall SS1 has a Framing Type of Staggering Stud Wall

J. GLAZING PRODUCT SUMMARY $ 140.3

1. Product Type	2. Product Density (lbs/ft³)	3. Aged Solar Reflectance	4. Thermal Emittance	5. Dirt	6. Cool Roof Credit	7. Roofing Product Description	8. Confirmed: Pass	8. Confirmed: Fail
R-19 Roof Cathedral SS	0.0500	0.00	0.75	N/A	No	N/A	☐	☐

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M. HVAC SYSTEM SUMMARY (see NRCC-PRC-MCH-DETAILS for more information) $ 110.1 / $ 140.1

Dry System Equipment (Fan & Economizer info included below in Table N)

1. Equip Name	2. Equip Type	3. Supply Fan (Sample Tag or Complete ?)	4. Qty	5. Total Heating Output (kBtu/h)	6. Supply Heat Source (%TR)	7. Total Cooling Output (kBtu/h)	8. Efficiency	9. Acceptance Testing Required? (Y/N)	10. Confirmed: Pass	10. Confirmed: Fail
						Cooling	Heating			
HP-1 PC 1	12HP Split DX Heat	Unique	1	22	Yes	8	17	EER 10.1 / IEER 13.0	No	☐ ☐
HP-2 PC 6	12HP Split DX Heat	Unique	1	22	Yes	8	17	EER 10.1 / IEER 13.0	No	☐ ☐

Wet System Equipment

11. Equip Name	12. Equip Type	13. Qty	14. Vol (gal)	15. Rated Capacity (kBtu/h)	16. Efficiency	17. Standby Loss	18. Tank Ext. R-Value	19. Qty	20. GPM	21. Head (TDH)	22. Confirmed: Pass	22. Confirmed: Fail
Boilers PRIOR TO 1/1/2015 (DEC)	Storage	1	80	11	87.0 %Et	N/A	N/A	N/A	41	N/A	☐	☐

Any boiler (regardless of size) with a standby loss, must comply with the following:
Min. system input for boilers with standby losses, or standby units, heat pumps, or
Min. system input for boilers with standby losses, or standby units, heat pumps, or
* Indicates boilers shall comply with the following: Minimum thermal efficiency, Et, at maximum output capacity.
* Indicates boilers shall comply with the following: Minimum thermal efficiency, Et, at maximum output capacity.
* Indicates boilers shall comply with the following: Minimum thermal efficiency, Et, at maximum output capacity.

Table 10-8, Table 10-9, Table 10-10

Discrepancy between modeled and designed equipment sizing? (If "Yes", see Table F - Additional Remarks)	No

N. ECONOMIZERS & FAN SYSTEMS SUMM - DRY $ 140.4

1. Equip Name	2. Outside Air CFM	3. Supply Fan: CFM	3. Supply Fan: HP	3. Supply Fan: BHP	3. Supply Fan: Fan Shaft Motor Eff.	3. Supply Fan: Control	4. Return Fan: CFM	4. Return Fan: HP	4. Return Fan: BHP	4. Return Fan: Fan Shaft Motor Eff.	4. Return Fan: Control	5. Economizer Type (if present)	6. Confirmed: Pass	6. Confirmed: Fail
HP-1 PC	245	670	0.500	0.500	0.840	Constant Volume	N/A	N/A	N/A	N/A	N/A	NoEconomizer	☐	☐

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N. ECONOMIZERS & FAN SYSTEMS SUMMARY $ 140.4

1. Equip Name	2. Outside Air CFM	3. Supply Fan: CFM	3. Supply Fan: HP	3. Supply Fan: BHP	3. Supply Fan: Fan Shaft Motor Eff.	3. Supply Fan: Control	4. Return Fan: CFM	4. Return Fan: HP	4. Return Fan: BHP	4. Return Fan: Fan Shaft Motor Eff.	4. Return Fan: Control	5. Economizer Type (if present)	6. Confirmed: Pass	6. Confirmed: Fail
HP-6 PC 6	245	670	0.500	0.500	0.840	Constant Volume	N/A	N/A	N/A	N/A	N/A	No Economizer	☐	☐

Table 140.4-A, Table 140.4-B, Table 140.4-C, Table 140.4-D, Table 140.4-E, Table 140.4-F, Table 140.4-G, Table 140.4-H, Table 140.4-I, Table 140.4-J, Table 140.4-K, Table 140.4-L, Table 140.4-M, Table 140.4-N, Table 140.4-O, Table 140.4-P, Table 140.4-Q, Table 140.4-R, Table 140.4-S, Table 140.4-T, Table 140.4-U, Table 140.4-V, Table 140.4-W, Table 140.4-X, Table 140.4-Y, Table 140.4-Z, Table 140.4-AA, Table 140.4-AB, Table 140.4-AC, Table 140.4-AD, Table 140.4-AE, Table 140.4-AF, Table 140.4-AG, Table 140.4-AH, Table 140.4-AI, Table 140.4-AJ, Table 140.4-AK, Table 140.4-AL, Table 140.4-AM, Table 140.4-AN, Table 140.4-AO, Table 140.4-AP, Table 140.4-AQ, Table 140.4-AR, Table 140.4-AS, Table 140.4-AT, Table 140.4-AU, Table 140.4-AV, Table 140.4-AW, Table 140.4-AX, Table 140.4-AY, Table 140.4-AZ, Table 140.4-BA, Table 140.4-BB, Table 140.4-BC, Table 140.4-BD, Table 140.4-BE, Table 140.4-BF, Table 140.4-BG, Table 140.4-BH, Table 140.4-BI, Table 140.4-BJ, Table 140.4-BK, Table 140.4-BL, Table 140.4-BM, Table 140.4-BN, Table 140.4-BO, Table 140.4-BP, Table 140.4-BQ, Table 140.4-BR, Table 140.4-BS, Table 140.4-BT, Table 140.4-BU, Table 140.4-BV, Table 140.4-BW, Table 140.4-BX, Table 140.4-BY, Table 140.4-BZ, Table 140.4-CA, Table 140.4-CB, Table 140.4-CC, Table 140.4-CD, Table 140.4-CE, Table 140.4-CF, Table 140.4-CG, Table 140.4-CH, Table 140.4-CI, Table 140.4-CJ, Table 140.4-CK, Table 140.4-CL, Table 140.4-CM, Table 140.4-CN, Table 140.4-CO, Table 140.4-CP, Table 140.4-CQ, Table 140.4-CR, Table 140.4-CS, Table 140.4-CT, Table 140.4-CU, Table 140.4-CV, Table 140.4-CW, Table 140.4-CX, Table 140.4-CY, Table 140.4-CZ, Table 140.4-DA, Table 140.4-DB, Table 140.4-DC, Table 140.4-DD, Table 140.4-DE, Table 140.4-DF, Table 140.4-DG, Table 140.4-DH, Table 140.4-DI, Table 140.4-DJ, Table 140.4-DK, Table 140.4-DL, Table 140.4-DM, Table 140.4-DN, Table 140.4-DO, Table 140.4-DP, Table 140.4-DQ, Table 140.4-DR, Table 140.4-DS, Table 140.4-DT, Table 140.4-DU, Table 140.4-DV, Table 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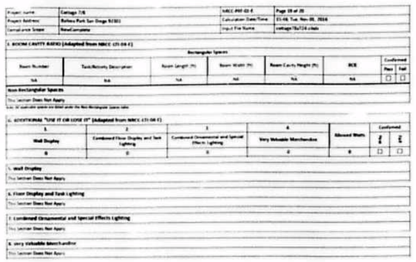

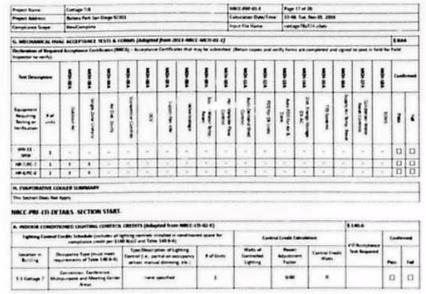

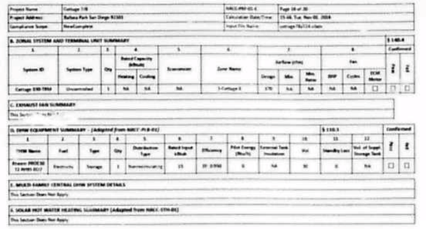

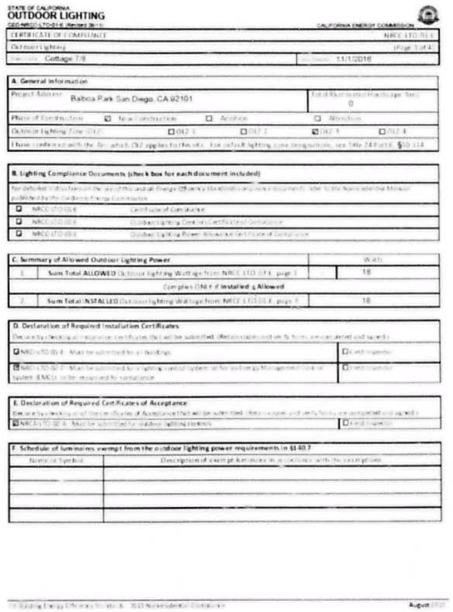

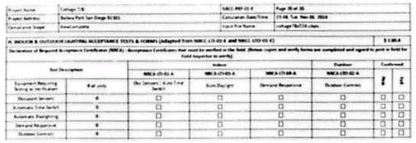

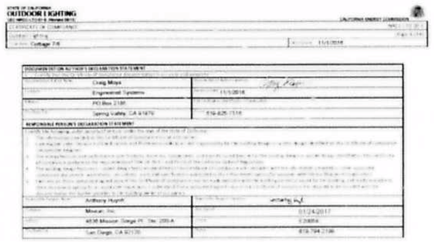

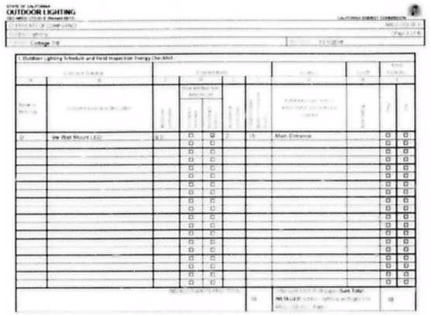

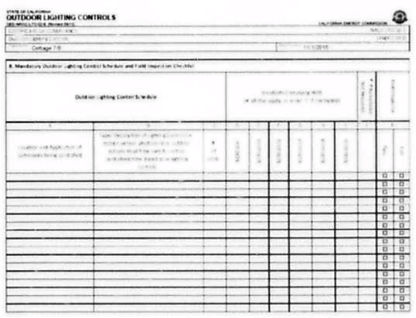

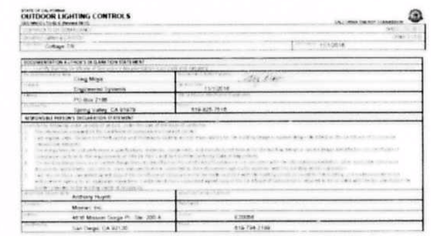

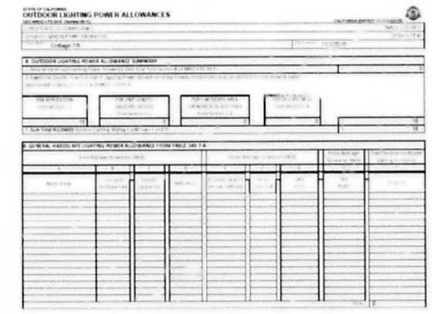

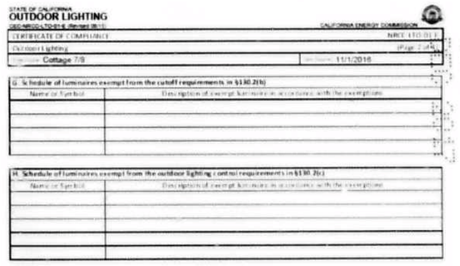

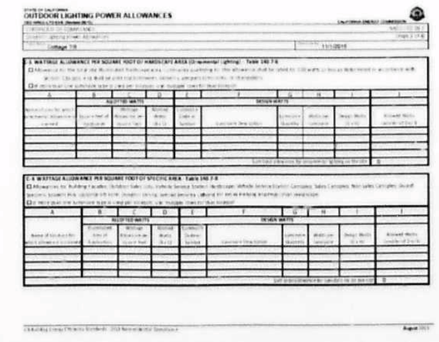

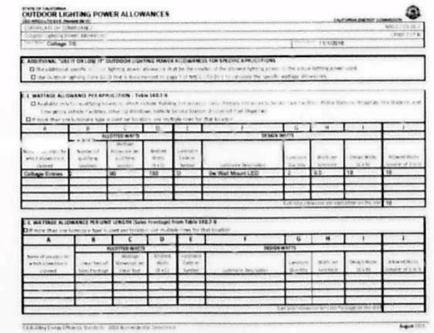

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ENGINEERED SYSTEMS
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09-30-2018
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COUNCIL DISTRICT: 3

DATE	ACTION	REFERENCE DOCUMENTS		
	SITE ACQUIRED	RESO. NO. R-	COST $:	ACRES:
	SITE DEDICATED	ORD. NO.		ACRES:
1/18/2012	GDP CONSULTANT HIRED	RESO. NO.	NAME: ESTRADA LAND PLANNING	
	P&R BOARD APPROVAL	PF&R APPROVAL	DATE:	
	INITIAL DEVELOPMENT	CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.
		CIP NO.	J.O. NO.	DRWG. NO.

IMPROVEMENTS SUMMARY (DATA FROM AS-BUILT DRAWINGS)

ITEM	QUANTITY	ITEM	QUANTITY	ITEM	QUANTITY	ITEM	QUANTITY
TOTAL SITE	AC.	TOT LOT	SF	PAVED WALKWAYS	SF	SECURITY LTS.	STDS.
IMPROVED AREA	AC.	MULTI-PURPOSE CT.	SF	PARK ROADS	SF	BALLFIELD LTS.	STDS.
TURF	AC.	TENNIS CTS.	SF	PARKING LOT	SF	TENNIS COURT LTS.	STDS.
SHRUB BED	AC.	RESTROOM	SF	PARKING STALLS-STD.		MULTI-PURPOSE CT. LTS.	STDS.
NATURAL	AC.	REC. BLDG.	SF	PARKING STALLS-DISABLED	1	BACKSTOPS	EA.
D.G. PAVING	AC.	POOL BLDG.	SF	COURT GAME AREA	SF	BENCHES	EA.
DIRT INFIELDS	AC.	POOL DECK	SF	LAWN EDGING	LF	PICNIC TABLES	EA.
		POOL WATER	SF	BLEACHERS	EA	TRASH RECEPTACLES	EA.
						REVISION	

DECEMBER 6, 2016

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

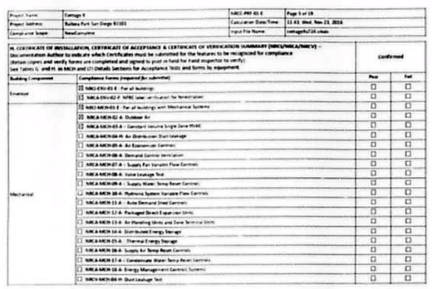
INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: **ENERGY CODE FORMS - COTTAGE 7/8**

SHEET NUMBER: **EN4.2**

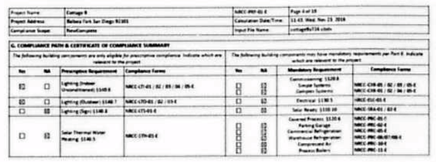
LAMBERT COORDINATES: 204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)



Project Name:	Cottage 9	NRCC-PRF-01-E	Page 3 of 19
Project Address:	Balboa Park San Diego 92101	Calculation Date/Time:	11:43, Wed, Nov 23, 2016
Compliance Scope:	New/Complete	Input File Name:	cottage9a724.ribd6

H. CERTIFICATE OF INSTALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATION SUMMARY (NRCI/NRCA/NRCV) –
Documentation author to indicate which Certificates must be submitted for the features to be recognized for compliance
(Retain copies and verify forms are completed and signed to post in hard for hand inspector to verify)
See Tables G and H in 4th CH and 5th Details Sections for Acceptance Tests and forms by equipment.

Building Component	Compliance Forms (required for submittal)	Confirmed: Pass	Confirmed: Fail
Envelope	☐ NRCI-ENV-01-E - For all buildings	☐	☐
	☑ NRCA-ENV-02-F - NFRC Label or Attached Tag Verification	☐	☐
	☑ NRCI-MCH-01-E - For all buildings with Mechanical Systems	☐	☐
Mechanical	☑ NRCA-MCH-02-A - Outdoor Air	☐	☐
	☑ NRCA-MCH-03-A - Constant-volume Single Zone HVAC	☐	☐
	☐ NRCA-MCH-04-A - Air Economizer Controls	☐	☐
	☐ NRCA-MCH-05-A - Demand Control Ventilation	☐	☐
	☐ NRCA-MCH-07-A - Supply Air Variable Flow Controls	☐	☐
	☐ NRCA-MCH-08-A - Valve Leakage Test	☐	☐
	☐ NRCA-MCH-09-A - Supply Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-10-A - Pumping Systems Variable Flow Controls	☐	☐
	☐ NRCA-MCH-11-A - Auto Demand Shed Controls	☐	☐
	☐ NRCA-MCH-12-A - Packaged Direct Expansion Units	☐	☐
	☐ NRCA-MCH-13-A - Air Handling Units and Zone Terminal Units	☐	☐
	☐ NRCA-MCH-14-A - Distributed Energy Storage	☐	☐
	☐ NRCA-MCH-15-A - Thermal Energy Storage	☐	☐
	☐ NRCA-MCH-16-A - Supply Air Temp Reset Controls	☐	☐
	☐ NRCA-MCH-17-A - Condensate Water Temp Reset Controls	☐	☐
	☐ NRCA-MCH-18-A - Energy Management Control Systems	☐	☐
	☐ NRCV-MCH-04-H - Duct Leakage Test	☐	☐
Plumbing	☐ NRCI-PLB-01-E - For all buildings with Plumbing Systems	☐	☐
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCI-PLB-22-E - HERS verified central systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCI-PLB-23-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCI-PLB-24-E - HERS verified central systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCI-PLB-25-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel applications	☐	☐
	☐ NRCI-SWH-01-E - Any solar water heating	☐	☐
Indoor Lighting	☐ NRCI-LTI-01-E - For all buildings	☐	☐
	☐ NRCA-LTI-02-E - Lighting control system, as for an Energy Management Control System (EMCS)	☐	☐
	☐ NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, as for a supplementary overcurrent protection panel, used to energize only line voltage track lighting	☐	☐
	☐ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater	☐	☐
	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)	☐	☐
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio	☐	☐
	☐ NRCI-LTI-07-E - Occupancy sensors and automatic time switch controls	☐	☐
	☐ NRCA-LTI-03-A - Automatic daylighting controls	☐	☐
	☐ NRCA-LTI-04-A - Demand responsive lighting controls	☐	☐
Outdoor Lighting	☐ NRCI-LTI-02-E - Outdoor lighting	☐	☐
	☐ NRCA-LTI-01-E - EMCS Lighting Control System	☐	☐
	☐ NRCA-LTI-02-A - Outdoor Lighting Control	☐	☐
Sign Lighting	☐ NRCI-LTI-03-E - Sign Lighting	☐	☐
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution	☐	☐
Photovoltaic	☐ NRCI-PVS-01-E Photovoltaic Systems	☐	☐



Project Name:	Cottage 9	NRCC-PRF-01-E	Page 4 of 19
Project Address:	Balboa Park San Diego 92101	Calculation Date/Time:	11:43, Wed, Nov 23, 2016
Compliance Scope:	New/Complete	Input File Name:	cottage9a724.ribd6

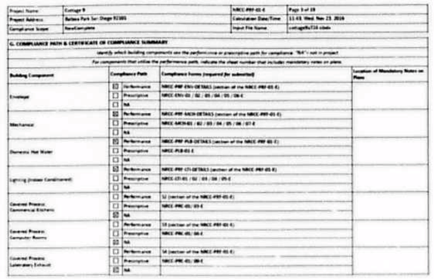
G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

The following building components are eligible for prescriptive compliance. Indicate which are selected to be the project

Yes	NA	Prescriptive Requirement	Compliance Forms
☑	☐	Lighting (Interior Amendment): 134B-8	NRCC-LTI-01 - E
☒	☐	Lighting (Outdoor): 147B-7	NRCC-LTO-01 - E
☐	☒	Lighting (Sign): 148B-6	NRCC-LTS-01-E
☐	☒	Solar Thermal Water Heating: 114B-5	NRCC-ENV-02-E

The following building components may have mandatory requirements per Part 6. Indicate which are relevant to the project

Yes	NA	Mandatory Requirement	Compliance Forms
☐	☐	Commissioning: 132B-8	NRCI-ENV-01-E / 02 / 03 / 04 / 05-E
		Simple Systems:	NRCI-ENV-01 / 02 / 03 / 04 / 05 / 06-E
		Complex Systems:	
☐	☑	Electrical: 119B-1	NRCI-ELC-01-E
☐	☑	Solar Ready: 110B-10	NRCA-ENV-01 - E/ C
☐	☐	Covered Process: 131B-6	NRCI-PRC-01-E
		Parking Garage:	NRCI-PRC-02-E
		Commercial Refrigeration:	NRCI-PRC-03-E
		Warehouse Refrigeration:	NRCI-PRC-04/07/08-E
		Compressed Air:	NRCI-PRC-10-E
		Process Boilers:	NRCI-PRC-11-E



Project Name:	Cottage 9	NRCC-PRF-01-E	Page 5 of 19
Project Address:	Balboa Park San Diego 92101	Calculation Date/Time:	11:43, Wed, Nov 23, 2016
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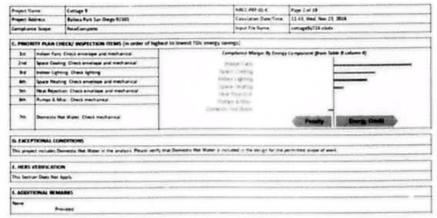
G. COMPLIANCE PATH & CERTIFICATE OF COMPLIANCE SUMMARY

Identify which building components are the performance or prescriptive path for compliance. "N/A" is not in project
For components that utilize the performance path, indicate the sheet number that includes mandatory notes on plans

Building Component		Compliance Path	Compliance Forms (required for submittal)	Location of Mandatory Notes on Plans
Envelope	☑	Performance	NRCC-PRF-ENV-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-ENV-01 - E / 02 / 03 / 04 / 05 / 06-E	
	☐	NA		
Mechanical	☑	Performance	NRCC-PRF-MCH-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-MCH-01 - E / 02 / 03 / 04 / 05 / 06 / 07-E	
	☐	NA		
Domestic Hot Water	☑	Performance	NRCC-PRF-PLB-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-PLB-01-E	
	☐	NA		
Lighting (Indoor Conditioned):	☑	Performance	NRCC-PRF-LTI-DETAILS (section of the NRCC-PRF-01-E)	
	☐	Prescriptive	NRCC-LTI-01 - E / 02 / 03 / 04 / 05-E	
	☐	NA		
Covered Process: Commercial Kitchens:	☐	Performance	52 (section of the NRCC-PRF-01-E)	
	☑	Prescriptive	NRCC-PRC-01-E	
	☐	NA		
Covered Process: Computer Rooms:	☐	Performance	53 (section of the NRCC-PRF-01-E)	
	☑	Prescriptive	NRCC-PRC-01-E	
	☐	NA		
Covered Process: Laboratory Exhaust:	☐	Performance	54 (section of the NRCC-PRF-01-E)	
	☑	Prescriptive	NRCC-PRC-01-E	
	☐	NA		



Project Name:	Cottage 9	NRCC-PRF-01-E	Page 2 of 19
Project Address:	Balboa Park San Diego 92101	Calculation Date/Time:	11:43, Wed, Nov 23, 2016
Compliance Scope:	New/Complete	Input File Name:	cottage9a724.ribd6

C. PRIORITY PLAN CHECK INSPECTION ITEMS (in order of highest to lowest TDV energy savings)

1st	Indoor Fans: Check envelope and mechanical
2nd	Space Cooling: Check envelope and mechanical
3rd	Indoor Lighting: Check lighting
4th	Space Heating: Check envelope and mechanical
5th	Heat Rejection: Check envelope and mechanical
6th	Pumps & Misc.: Check mechanical
Yes	Domestic Hot Water: Check mechanical

D. EXCEPTIONAL CONDITIONS

This project includes Domestic Hot Water in the analysis. Please verify that Domestic Hot Water is included in the design for the permitted scope of work.

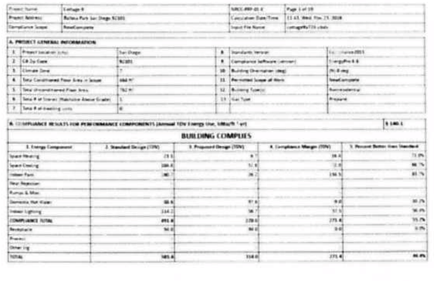
E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

None

Printed:



Project Name:	Cottage 9	NRCC-PRF-01-E	Page 1 of 19
Project Address:	Balboa Park San Diego 92101	Calculation Date/Time:	11:43, Wed, Nov 23, 2016
Compliance Scope:	New/Complete	Input File Name:	cottage9a724.ribd6

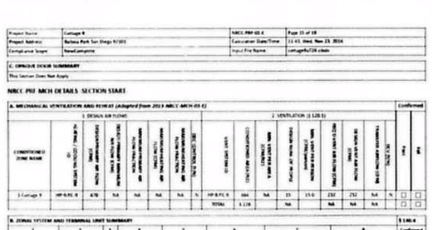
A. PROJECT GENERAL INFORMATION

1	Project location (city)	San Diego	8	Standards Version	15 - Version 2013
2	CA Zip Code	92101	9	Compliance Software (version)	CompliancE 9.6
3	Climate Zone	7	10	Building Orientation (deg)	As drawn
4	Total Conditioned Floor Area in Scope	4840 ft²	11	Permitted Scope of Work	New/Complete
5	Total Unconditioned Floor Area	762 ft²	12	Building Type(s)	Non-residential
6	Total # of Stories (Residential Above Grade)	1	13	Fuel Type	Propane
7	Total # of dwelling units	0			

B. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² yr) § 140.1

BUILDING COMPLIES

1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard
Space Heating	13.1	4.1	9.0	71.3%
Space Cooling	104.0	11.9	92.1	88.7%
Indoor Fans	38.1	26.1	196.9	83.7%
Heat Rejection				
Pumps & Misc.				
Domestic Hot Water	98.6	97.6	9.0	90.7%
Indoor Lighting	114.3	38.1	97.9	98.4%
COMPLIANCE TOTAL	493.8	178.0	273.4	55.7%
Receptacle	96.0	96.0	0.0	0.0%
Process				
Other Log				
TOTAL	589.8	318.0	273.4	46.4%



Project Name:	Cottage 9	NRCC-PRF-01-E	Page 11 of 19
Project Address:	Balboa Park San Diego 92101	Calculation Date/Time:	11:43, Wed, Nov 23, 2016
Compliance Scope:	New/Complete	Input File Name:	cottage9a724.ribd6

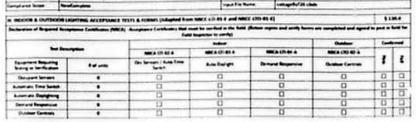
C. OPAQUE DOOR SUMMARY

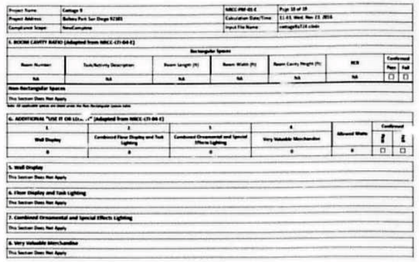
This Section Does Not Apply

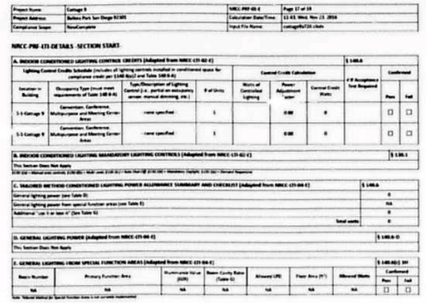
NRCC PRF DETAILS SECTION START

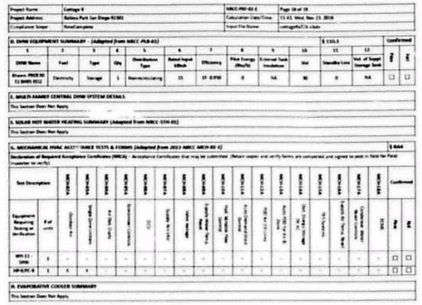
A. MECHANICAL VENTILATION AND PIPING (Adapted from 2013 ABUC ARCH-03-E) Confirmed

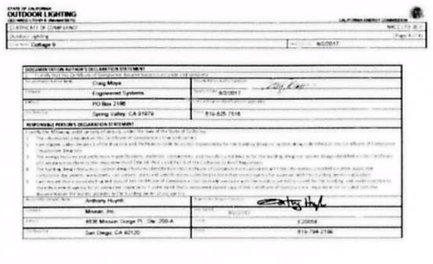
| 1. DESIGN AIR FLOWS | | | | | | | | | | | | | | | | | | | | 2. VENTILATION (§ 120.1) | | | | | | | | | | | | | | | | | | |

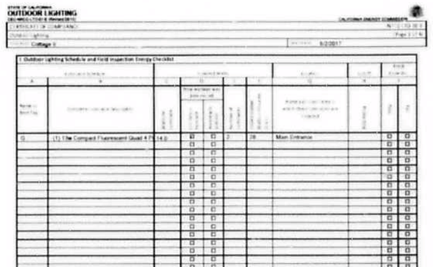


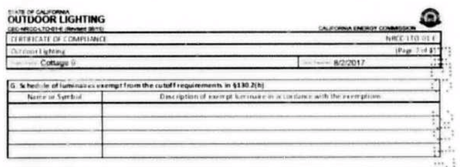


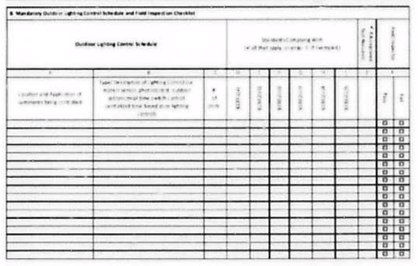


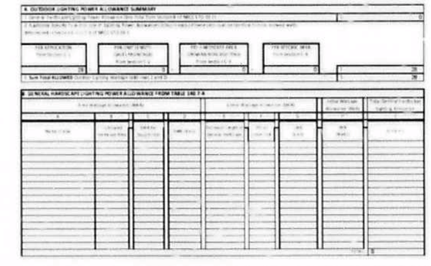


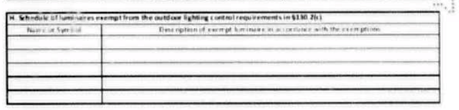


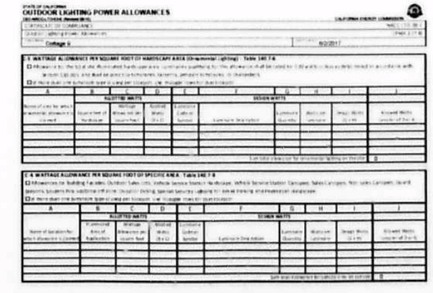


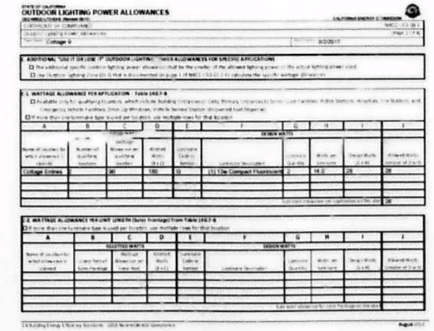












phone 619.825.7516
PO Box 2188
Spring Valley, CA
91979
[redacted]
ENGINEERED SYSTEMS
Consulting Engineers
project number 14057 engsysMatt.net

ARCHITECT OF WORK

P. DAVID MARSHALL C-24785

HERITAGE ARCHITECTURE & PLANNING 633 FIFTH AVENUE SAN DIEGO CALIFORNIA 92101 (619)239-7000 FAX (619)234-6280

JUNE 26, 2017

CITY OF SAN DIEGO PARK AND RECREATION DEPARTMENT

THE GENERAL DEVELOPMENT PLAN
HOUSE OF PACIFIC RELATIONS

INTERNATIONAL COTTAGES

(A PORTION OF BALBOA PARK)

SHEET TITLE: **ENERGY CODE FORMS - COTTAGE 9**

SHEET NUMBER: **EN5.2**

LAMBERT COORDINATES:204-1721 THOMAS BROTHERS PAGE: 60, D-6 (PSD #)

APPENDIX

L

DESIGN & CONSTRUCTION COST ESTIMATE

The City of SAN DIEGO
Engineering & Capital Projects

Project: Balboa Park International Cottages Electrical Upgrades Study, WBS P-24000

Base Renovation		
ADA Improvements	$	365,000.00
Asbestos Abatement	$	295,000.00
Electrical Construction and Design cost/Consultant estimate*	$	1,945,443.00
Total	$	2,605,443.00

Recommendation 1		
ADA Improvements	$	365,000.00
Asbestos Abatement	$	295,000.00
Electrical Construction and Design cost/Consultant estimate*	$	1,980,088.00
Total	$	2,640,088.00

Recommendation 2		
ADA Improvements	$	365,000.00
Asbestos Abatement	$	295,000.00
Electrical Construction and Design cost/Consultant estimate*	$	2,264,907.00
Total	$	2,924,907.00

* Per WSP estimates

City of San Diego
Balboa Park International Cottages
Present Day Cost
FEBRUARY 2026

BASE RENOVATION

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL AMOUNT
1	Mobilization, Permits, Bonds, Cleanup, & Demobilization	LS	10% of Subtotal	1	$ 93,000
2	Stormwater	LS	$ 22,000	1	$ 22,000
3	Building Repairs	LS	$ 42,000	1	$ 42,000
4	Surface Restoration	LS	$ 27,000	1	$ 27,000
5	Sidewalk Repairs	LF	$ 25	100	$ 2,500
6	Landscape Repairs	LF	$ 16	1,769	$ 28,304
7	Verification of Utility Locations	LS	$ 25,000	1	$ 25,000
8	Archaeological Monitoring	LS	$ 1,000	38	$ 38,000
9	Electrical - General Electrical Specifications*	LS	$ 17,250	1	$ 17,250
10	Electrical - Demolition	LS	$ 74,500	1	$ 74,500
11	Electrical - SDG&E Transformers (by SDG&E)	EA	$ 65,400	4	$ 261,600
12	Electrical - Trenching, Back Filling, Compaction	LS	$ 43,700	1	$ 43,700
13	Electrical - Pull boxes	EA	$ 430	4	$ 1,720
14	Electrical - Metering	EA	$ 9,200	19	$ 174,800
15	Electrical - 200A Panelboards	EA	$ 5,250	19	$ 99,750
16	Electrical - 50A Camlocks	EA	$ 1,200	19	$ 22,800
17	Electrical - Grounding	LS	$ 35,226	1.0	$ 35,226
18	Electrical - 1" PVC SCH 40	LF	$ 11	545	$ 5,995
19	Electrical - 2" PVC SCH 40	LF	$ 16	1,259	$ 19,829
20	Electrical - 4" PVC SCH 40	LF	$ 38	65	$ 2,470
21	Electrical - Low Voltage Terminations	EA	$ 435	95	$ 41,325
22	Electrical - Low Voltage Cable Splices	EA	$ 435	76	$ 33,060
23	Electrical - #3/0 Low Voltage Cable, THHN-2/THWN-2 stranded	CLF	$ 162	12.6	$ 2,040
24	Electrical - #6 Low Voltage Cable	MLF	$ 4,300	0.5	$ 2,150
25	Electrical - Tags, Labels, and other Identifications	LS	$ 6,500	1	$ 6,500
26	Electrical - Acceptance Test and Inspections	LS	$ 15,500	1	$ 15,500
			SUBTOTAL		**$ 1,138,019**
	Design and Project Management			**0.245**	**$ 278,815**
	Construction Admin/Support			**0.07**	**$ 79,661**
			SUBTOTAL		**$ 1,496,495**
			Contingency (30%)		**$ 448,948**
*Excludes lighting fixture quanities and lighting controls costs			**TOTAL**		**$ 1,945,443**

City of San Diego
Balboa Park International Cottages
Present Day Cost
FEBRUARY 2026

RECOMMENDATION 1

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL AMOUNT
1	Mobilization, Permits, Bonds, Cleanup, & Demobilization	LS	10% of Subtotal	1	$ 94,000
2	Stormwater	LS	$ 22,000	1	$ 22,000
3	Building Repairs	LS	$ 42,000	1	$ 42,000
4	Surface Restoration	LS	$ 27,000	1	$ 27,000
5	Sidewalk Repairs	LF	$ 25	120	$ 3,000
6	Landscape Repairs	LF	$ 16	2,005	$ 32,080
7	Street Repairs	LF	$ 29	30	$ 870
8	Verification of Utility Locations	LS	$ 25,000	1	$ 25,000
9	Archaeological Monitoring	LS	$ 1,000	46	$ 46,000
10	Electrical - General Electrical Specifications*	LS	$ 17,250	1	$ 17,250
11	Electrical - Demolition	LS	$ 74,500	1	$ 74,500
12	Electrical - SDG&E Transformers (by SDG&E)	EA	$ 65,400	4	$ 261,600
13	Electrical - Trenching, Back Filling, Compaction	LS	$ 53,600	1	$ 53,600
14	Electrical - Pull boxes	EA	$ 430	14	$ 6,020
15	Electrical - Metering	EA	$ 9,200	19	$ 174,800
16	Electrical - 200A Panelboards	EA	$ 5,250	19	$ 99,750
17	Electrical - 50A Camlocks	EA	$ 1,200	10	$ 12,000
18	Electrical - Grounding	LS	$ 35,226	1.0	$ 35,226
19	Electrical - 1" PVC SCH 40	LF	$ 11	966	$ 10,626
20	Electrical - 2" PVC SCH 40	LF	$ 16	1,259	$ 19,829
21	Electrical - 4" PVC SCH 40	LF	$ 38	65	$ 2,470
22	Electrical - Low Voltage Terminations	EA	$ 435	86	$ 37,410
23	Electrical - Low Voltage Cable Splices	EA	$ 435	76	$ 33,060
24	Electrical - #3/0 Low Voltage Cable, THHN-2/THWN-2 stranded	CLF	$ 162	12.6	$ 2,040
25	Electrical - #6 Low Voltage Cable	MLF	$ 4,300	0.97	$ 4,154
26	Electrical - Tags, Labels, and other Identifications	LS	$ 6,500	1	$ 6,500
27	Electrical - Acceptance Test and Inspections	LS	$ 15,500	1	$ 15,500
			SUBTOTAL		**$ 1,158,285**
	Design and Project Management			**0.245**	**$ 283,780**
	Construction Admin/Support			**0.07**	**$ 81,080**
			SUBTOTAL		**$ 1,523,144**
			Contingency (30%)		**$ 456,943**
*Excludes lighting fixture quanities and lighting controls costs			**TOTAL**		**$ 1,980,088**

City of San Diego
Balboa Park International Cottages
Present Day Cost
FEBRUARY 2026

RECOMMENDATION 2

ITEM NO.	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	TOTAL AMOUNT
1	Mobilization, Permits, Bonds, Cleanup, & Demobilization	LS	10% of Subtotal	1	$ 110,000
2	Stormwater	LS	$ 22,000	1	$ 22,000
3	Building Repairs	LS	$ 42,000	1	$ 42,000
4	Surface Restoration	LS	$ 27,000	1	$ 27,000
5	Sidewalk Repairs	LF	$ 25	100	$ 2,500
6	Landscape Repairs	LF	$ 16	1,800	$ 28,800
7	Verification of Utility Locations	LS	$ 25,000	1	$ 25,000
8	Archaeological Monitoring	LS	$ 1,000	66	$ 66,000
9	Boring	LF	$ 46	1,943	$ 88,407
10	Electrical - General Electrical Specifications*	LS	$ 17,250	1	$ 17,250
11	Electrical - Demolition	LS	$ 74,500	1	$ 74,500
12	Electrical - SDG&E Transformers (by SDG&E)	EA	$ 65,400	4	$ 261,600
13	Electrical - Trenching, Back Filling, Compaction	LS	$ 84,400	1	$ 84,400
14	Electrical - Pull boxes	EA	$ 430	16	$ 6,880
15	Electrical - Metering	EA	$ 9,200	19	$ 174,800
16	Electrical - 200A Panelboards	EA	$ 5,250	19	$ 99,750
17	Electrical - 50A Camlocks	EA	$ 1,200	19	$ 22,800
18	Electrical - Grounding	LS	$ 35,226	1.0	$ 35,226
19	Electrical - 1" PVC SCH 40	LF	$ 11	1,943	$ 21,373
20	Electrical - 2" PVC SCH 40	LF	$ 16	1,259	$ 19,829
21	Electrical - 4" PVC SCH 40	LF	$ 38	65	$ 2,470
22	Electrical - Low Voltage Terminations	EA	$ 435	76	$ 33,060
23	Electrical - Low Voltage Cable Splices	EA	$ 435	76	$ 33,060
24	Electrical - #3/0 Low Voltage Cable, THHN-2/THWN-2 stranded	CLF	$ 162	12.6	$ 2,040
25	Electrical - #6 Low Voltage Cable	MLF	$ 4,300	0.5	$ 2,150
26	Electrical - Tags, Labels, and other Identifications	LS	$ 6,500	1	$ 6,500
27	Electrical - Acceptance Test and Inspections	LS	$ 15,500	1	$ 15,500
			SUBTOTAL		**$ 1,324,894**
	Design and Project Management			**0.245**	**$ 324,599**
	Construction Admin/Support			**0.07**	**$ 92,743**
			SUBTOTAL		**$ 1,742,236**
			Contingency (30%)		**$ 522,671**
*Excludes lighting fixture quanities and lighting controls costs			**TOTAL**		**$ 2,264,907**

APPENDIX

M SITE PHOTOS DURING DECEMBER NIGHTS

SITE PHOTOS DURING DECEMBER NIGHTS

Figure 2. Existing extension cord routing from installed Cam-Locks at Hall of Nations during December nights.

Figure 3. December nights, electrical equipment and cable routing on public rights-of-way and near event layouts.

Figure 4. Generator connection and placement during December nights.

APPENDIX

N

ASBESTOS ABATEMENT SPECIFICATION

The City of SAN DIEGO
Environmental Services Department
Disposal and Environmental Protection Division

ASBESTOS ABATEMENT SPECIFICATION

for

BALBOA PARK INTERNATIONAL COTTAGES

June 5, 2024

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I. DEFINITIONS

A. ABATEMENT: Any set of measures involving the removal, repair, encapsulation, enclosure, or demolition is ACM.

B. ABATEMENT CONTRACTOR: The designated sub-contractor performing the required abatement work outlined in this specification.

C. ACCREDITED or ACCREDITATION (when referring to a person or laboratory): A person or laboratory accredited in accordance with section 206 of Title II of the Toxic Substances Control Act (TSCA).

D. AIR MONITORING: The process of measuring the fiber content of a specific volume of air.

E. AMENDED WATER: Water to which a surfactant has been added to decrease the surface tension to 35 or less dynes.

F. ASBESTOS: The asbestiform varieties of Serpentinite (Chrysotile), Riebeckite (Crocidolite), Cummingtonite Grunerite, Anthophyllite, and Actinolite Tremolite. For purposes of determining respiratory and worker protection both the asbestiform and non-asbestiform varieties of the above minerals and any of these materials that have been chemically treated and/or altered shall be considered as asbestos.

G. ASBESTOS CONTAINING MATERIAL (ACM): Any material containing more than 1% by weight of asbestos of any type or mixture of types.

H. ASBESTOS-CONTAINING BUILDING MATERIAL (ACBM): Surfacing ACM, thermal system insulation ACM, or miscellaneous ACM that is found in or on interior structural members or other parts of a building.

I. ASBESTOS CONTAINING WASTE MATERIAL: Any material which is or is suspected of being or any material contaminated with an asbestos containing material which is to be removed from a work area for disposal.

J. ASBESTOS DEBRIS: Pieces of ACBM that can be identified by color, texture, or composition, or means dust, if the dust is determined by an accredited inspector to be ACM.

K. AUTHORIZED VISITOR: The Owner, the Owner's Representative, testing lab personnel, the Architect/Engineer, emergency personnel or a representative of any federal, state and local regulatory or other agency having authority over the project.

L. BARRIER: Any surface that seals off the work area to inhibit the movement of fibers.

L. BARRIER: Any surface that seals off the work area to inhibit the movement of fibers.

M. BREATHING ZONE: A hemisphere forward of the shoulders with a radius of approximately 6 to 9 inches.

N. DEMOLITION: The wrecking or taking out of any building component, system, finish or assembly of a facility together with any related handling operations.

O. DISPOSAL BAG: A properly labeled 6 mil thick leak tight plastic bags used for transporting asbestos waste from work and to disposal site.

P. ENCAPSULANT: A penetrating encapsulant specifically designed to minimize fiber release during removal of asbestos containing materials rather that for in situ encapsulation.

Q. ENCAPSULATION: Treatment of asbestos containing materials, with an encapsulant.

R. ENCLOSURE: The construction of an air tight, impermeable, permanent barrier around asbestos containing material to control the release of asbestos fibers into the air.

S. FILTER: A media component used in respirators to remove solid or liquid particles from the inspired air.

T. FRIABLE ASBESTOS MATERIAL: Material that contains more than 1.0% asbestos by weight and that can be crumbled, pulverized, or reduced to powder by hand pressure when dry. A material can also be rendered friable via mechanical means.

U. HEPA FILTER: A High Efficiency Particulate Air (HEPA) filter capable of trapping and retaining 99.97% of asbestos fibers greater than 0.3 microns in diameter.

V. HEPA FILTER VACUUM COLLECTION EQUIPMENT (or vacuum cleaner): High efficiency particulate air filtered vacuum collection equipment with a filter system capable of collecting and retaining asbestos fibers. Filters should be of 99.97% efficiency for retaining fibers of 0.3 microns or larger.

W. NEGATIVE PRESSURE RESPIRATOR: A respirator in which the air pressure inside the respiratory inlet covering is positive during exhalation in relation to the air pressure of the outside atmosphere and negative during inhalation in relation to the air pressure of the outside atmosphere.

X. PERSONAL MONITORING: Sampling of the asbestos fiber concentrations within the breathing zone of an employee.

Y. PROTECTION FACTOR: The ratio of the ambient concentration of an airborne substance to the concentration of the substance inside the respirator at the breathing zone of the wearer. The protection factor is a measure of the degree of protection provided by a respirator to the wearer.

Z. PROJECT MONITOR: City of San Diego Asbestos & Lead Management Program staff or their designated consultant.

AA. VISIBLE EMISSIONS: Any emissions containing particulate asbestos material that are visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.

BB. WET CLEANING: The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning utensils which have been dampened with amended water or diluted removal encapsulant and afterwards thoroughly decontaminated or disposed of as asbestos-contaminated waste.

CC. WORK AREA: The area where asbestos-related work or removal operations are performed which is defined and/or isolated to prevent the spread of asbestos dust, fibers or debris, and entry by unauthorized personnel. Work area is a Regulated Area as defined by Title 8 CCR 1529

II. GENERAL REQUIREMENTS

A. DESCRIPTION OF WORK FOR: **BALBOA PARK INTERNATIONAL COTTAGES**

1. ABATEMENT CONTRACTOR shall supply all labor, transportation, material, apparatus, and equipment for the removal, and disposal of asbestos-containing materials (ACM) to be impacted as a result of this project, as identified in Appendix C of this section. **The building(s) and building materials affected are:**

House of Poland (Facility #663): Kitchen Drywall
House of Germany (Facility #657): Exterior Stucco Walls
House of Ireland (Facility #665): Exterior Stucco Walls
House of Ukraine (Facility #667): Exterior Stucco Walls
House of Denmark (Facility #666) Exterior Stucco Walls
House of Italy (Facility #634) Main Room/Kitchen Drywall

2. ABATEMENT CONTRACTOR shall be responsible for ensuring the building will not be contaminated with asbestos containing material during work and shall be responsible for any clean-up determined necessary by City of San Diego's PROJECT MONITOR.

3. Before submitting his/her bid, the ABATEMENT CONTRACTOR shall visit the project site and verify the location of the asbestos-containing materials that will be removed under the terms and conditions of the contract and this specification.

4. Abatement work shall be performed within agreed upon hours submitted prior to project start which will not include designated City holidays.

5. Before the beginning of the work related to asbestos abatement, ABATEMENT CONTRACTOR shall hold a safety construction meeting with all asbestos related supervisors, workers, and other contractors on-site that provides an overview of the accepted asbestos work plan, decontamination procedures specific to this project (decontamination procedures shall be on paper with copies for all present), and disposal plan for this project. Meeting shall include the PROJECT MONITOR and any other designated City representative.

B. CONTRACTOR USE OF THE PREMISES

1. All site rules and regulations affecting the work should be complied with while engaged in project activities. The existing building should be maintained in a safe condition throughout the asbestos abatement activities. The ABATEMENT CONTRACTOR will be responsible for adhering to all applicable building codes and fire safety requirements.

2. All public areas will be kept free of accumulated waste, materials, rubbish, and debris.

C. PROJECT COORDINATION

1. It will be the responsibility of the ABATEMENT CONTRACTOR to coordinate all site activities with the City's Asbestos, Lead & Mold Program's (ALMP) PROJECT MONITOR including any meetings, surveys, special reports, and site usage limitations.

D. PROJECT SUBMITTALS

The ABATEMENT CONTRACTOR shall not commence any work until approval has been given from the City. The ABATEMENT CONTRACTOR shall submit the following 60 days prior to commencement of any asbestos abatement activities:

1. Asbestos Abatement Work Plan:

a) In addition to information required in this section, Work Plan shall contain all information required under Title 8 CCR 1529. Submit a detailed job-specific plan that includes:

(1) The procedures proposed to comply with the requirements of this specification and all applicable regulations.

(2) Detailed drawings that identify the location, size, layout and details of the Work Areas, any equipment, disposal storage, restrooms, and worker decontamination facilities.

(3) The sequencing of abatement work and the interface of trades involved in the performance of work. Provide a time line that details each major phase of work activity and anticipated time it will occur.

(4) The methods to be used to assure the safety of occupants and visitors to the site.

(5) Detailed description of the methods to be employed to ensure asbestos is not released above background air levels.

(6) The method of removal to minimize asbestos dust generation in the Work Area,

b) Work site coordination submittals including:

(1) Contingency and Spill Plan: Prepare a contingency plan for emergencies including fire, accident, power failure, or any other event that may require modification or abridgement of decontamination or Work Area isolation procedures. Include in plan specific procedures for decontamination or Work Area isolation. Plan should be specific for all types of hazardous materials or situations specific to this work site. Note that nothing in this specification should impede safe exiting or providing of adequate medical attention in the event of an emergency.

(2) Telephone numbers and locations of emergency services including but not limited to fire, ambulance, doctor, hospital, police, power company, telephone company.

2. Notifications:

a) If required by regulations, submit copies of notifications made to regulatory agencies along with a copy of certified mail receipt.

b) Notify emergency service agencies including fire, ambulance, police or other agency that may service the abatement work site in case of an emergency. Notification is to include methods of entering Work Area, emergency entry and exit locations, modifications to fire notification or fire-fighting equipment, and other information needed by agencies providing emergency services.

c) Notifications of Emergency: Any individual at the job site may notify emergency service agencies if necessary without effect on this contract or the Contract Sum.

d) Provide submittal identifying person responsible for responding to project site emergencies twenty-four hours a day, seven days a week.

3. ABATEMENT CONTRACTOR qualifications and personnel information submittals that include but are not limited to:

a) Submit a copy of the ABATEMENT CONTRACTOR's Asbestos DOSH Handling License.

b) Identify state licensed transporter, disposal location, and associated permits for all asbestos waste.

c) Provide all staff names, certifications, and experience. Identify their duties and responsibilities on this project. ABATEMENT CONTRACTOR shall have the following minimum levels of qualified supervision on the project site:

(1) General Superintendent: Provide a full-time General Superintendent who is experienced in administration and supervision of asbestos abatement projects including work practices, protective measures for building and personnel, disposal procedures, etc. This person is the ABATEMENT CONTRACTOR`s representative responsible for compliance with all applicable federal, state and local regulations and guidelines,

particularly those relating to asbestos abatement and hazardous waste. Should, in the opinion of the OWNER, any language barrier exist between the on-site superintendent and the OWNER or PROJECT MONITOR, the ABATEMENT CONTRACTOR shall employ a qualified full-time interpreter or provide a new on-site superintendent at no additional cost to the OWNER. Shall be AHERA certified as asbestos supervisor.

(2) Foreman: Provide a full time Foreman to directly supervise and direct no more than 10 abatement workers. Each Foreman will act as the Competent Person as required by Title 8 CCR 1529 for the workers the foreman is directing. The Foreman has oversight authority over the workers and reports to the General Superintendent. If there are 10 or fewer abatement workers on the project the General Superintendent may fill the Foreman's position. Shall be AHERA certified as asbestos supervisor.

(3) Experience and Training: The General Superintendent and foreman shall meet all the requirements as a Competent Person as required by Title 8 CCR 1529. They shall have completed training in EPA Asbestos Supervisor Training. They shall have experience with projects of similar types and sizes.

(4) Workers: All asbestos abatement workers shall have current EPA and OSHA asbestos abatement training.

(5) Certificate of Worker's Acknowledgment: Submit an original signed copy of the Certificate of Worker's Acknowledgment found in Appendix A of this section, for each worker and supervisor who is to be at the job site or enter the Work Area.

d) Submit respiratory protection information and air monitoring data as per the following:

(1) Operating Instruction: Submit complete operating and maintenance instructions for all components and systems as a whole. Submittal is to be in bound manual form suitable for field use.

(2) Respiratory Protection Program: Submit ABATEMENT CONTRACTOR's written respiratory protection program manual as required by Title 8 CCR 1529 and 5144.

(3) Respiratory Protection Schedule: Submit level of respiratory protection intended for each operation required by the project.

(4) Copies of current respirator fit test: Fit tests must be performed annually.

e) Submit doctor's report from medical examination conducted within the last 12 months as part of compliance with OSHA medical surveillance requirements for each worker who is to enter the Work Area. Submit, at a minimum, the following for each worker:

(1) Name and Social Security Number

(2) Physicians Written Opinion from examining physician including at a minimum the following:

(a) Whether worker has any detected medical conditions that would place the worker at an increased risk of material health impairment from exposure to asbestos. Any recommended limitations on the worker or on the use of personal protective equipment such as respirators.

(b) Statement that the worker has been informed by the physician of the results of the medical examination and of any medical conditions that may result from asbestos exposure.

f) Submit a notarized certification, signed by an officer of the ABATEMENT CONTRACTOR firm that exposure measurements, medical surveillance, and worker training records are being kept in conformance with Title 8 CCR 1529.

g) Identify the laboratory that will be performing the analysis of the personal samples and provide their accreditation. Also discuss the method by which the ABATEMENT CONTRACTOR will provide the analytical results to the PROJECT MONITOR within 24 hours of sampling completion.

4. Submit the following during and at the completion of the work

a) Copies of all Waste Shipment Records

b) Copies of all air monitoring results within 24 hours

5. At the end of a project, the ABATEMENT CONTRACTOR shall submit the following to the PROJECT MONITOR:

a) Personal Air Sample Results

b) Copies of Project Daily Logs

c) Containment Entry/Exit Logs

d) Waste Disposal Documentation

e) Certificate of Visual Inspection

E. SCHEDULES AND REPORTS

1. Prior to each phase of project, the ABATEMENT CONTRACTOR shall provide the City with a tentative time line which outlines the project schedule. These documents will be reviewed and approved by the City prior to the commencement of work.

F. PRODUCT DATA

1. The ABATEMENT CONTRACTOR shall submit product information that is to be used during the abatement activities prior to commencement of work (i.e., encapsulants). General information required includes manufacturer's standard printed recommendations for application and use, compliance with recognized standards of trade association and testing agencies, and safety data sheets (SDSs).

2. Polyethylene sheet

a) A single polyethylene film in the largest sheet size possible to minimize seams, 4.0 or 6.0 mil thick as indicated, and clear, frosted, or black as indicated.

b) Provide flame resistant polyethylene film that conforms to requirements set forth by the National Fire Protection Association Standard 701, Small Scale Fire Test for Flame-resistant Textiles and Films. Provide largest size possible to minimize seams, 4.0 or 6.0 mil thick as indicated, and frosted or black as indicated.

c) Reinforced Polyethylene Sheet: Where plastic sheet is the only separation between the Work Area and building exterior, provide translucent, nylon reinforced, laminated, flame resistant, polyethylene film that conforms to requirements set forth by the National Fire Protection Association Standard 701, Small Scale Fire Test for Flame-resistant Textiles and Films. Provide largest size possible to minimize seams, 4.0 or 6.0 mil thick as indicated, frosted or black as indicated.

3. Tape

a) Provide duct tape in 2" or 3" widths as indicated, with an adhesive which is formulated to stick aggressively to sheet polyethylene.

4. Spray adhesive

a) Provide spray adhesive in aerosol cans which is specifically formulated to stick tenaciously to sheet polyethylene.

G. PROJECT CLOSE-OUT

1. Upon completion of work and prior to payment, the PROJECT MONITOR will proceed with an initial inspection of the abatement work area. A Certificate of Visual Inspection (Appendix B) will be signed by both the ABATEMENT CONTRACTOR and PROJECT MONITOR. The ABATEMENT CONTRACTOR will not be paid until the area meets the established project-specific clearance criteria and has submitted the required information.

III. SITE WORK

A. INTRODUCTION

This portion of the specification describes procedures and protocols for asbestos abatement activities. The protocols/procedures described hereafter are in accordance with federal/state/local requirements. In the absence of these requirements, the procedure/protocols are based on current industry standards.

B. BACKGROUND INFORMATION

PROJECT SPECIFIC INFORMATION: The scope of work for this project is to install new electrical panels with new wiring, plugs, and switches in 26 international cottages located at various addresses where the international cottages are located. Sampling of building materials has been performed by inspectors from the City's Asbestos, Lead & Mold Program (ALMP) and has been provided in Appendix C of this specification.

C. GENERAL INFORMATION

1. Potential Asbestos Hazard

The disturbance of asbestos containing materials may cause exposure to workers and building occupants. All workers, supervisory personnel, subcontractors, and consultants who will be at the job site, need to be apprised of the seriousness of the hazard and of proper work practices which must be followed to minimize exposure. The procedures and methods described herein must be followed and the ABATEMENT CONTRACTOR must comply with all applicable federal/state/local requirements.

2. Stop Work

If the PROJECT MONITOR presents a verbal or written stop work order, the ABATEMENT CONTRACTOR shall immediately and automatically stop all work. Recommencement of the work may not begin until authorized by the PROJECT MONITOR.

D. PROJECT ADMINISTRATION

1. Certified Supervisor

The ABATEMENT CONTRACTOR needs to provide a full-time asbestos abatement supervisor who is experienced in administration and supervision of asbestos abatement projects including work practices, protective measures for building and personnel, disposal procedures, etc. This supervisor must have completed an "Asbestos Abatement Supervision" course. This person will act as the competent person on the job.

In addition, all employees working on the project must have taken an "Asbestos Abatement Worker" course.

2. Special Reports

a) Reporting Unusual Events

When an event of unusual and significant nature occurs at the site (e.g., a spill of asbestos debris, failure of special equipment used to contain asbestos), the ABATEMENT CONTRACTOR shall prepare and submit a special report listing the chain of events, persons participating, response by ABATEMENT CONTRACTOR's personnel, evaluation of results, and other pertinent information.

b) Reporting Accidents

The ABATEMENT CONTRACTOR shall prepare and submit reports of significant accidents at the subject site. Pertinent data and actions need to be recorded. In addition, response actions should comply with industry standards. For this purpose, a significant accident is defined to include events where personal injury or property loss of substance is sustained, or where the event posed a significant threat of loss or personal injury or potential environmental contamination.

3. Compliance with Codes and Regulations

a) Except to the extent that more explicit, or more stringent requirements are written directly into this Asbestos Abatement Contract/Specification, all applicable codes, regulations, and standards have the same force and effect (and are made a part of the contract documents by reference) as if copied directly into the contract documents, or as if published copies are bound herewith.

b) The ABATEMENT CONTRACTOR will assume full responsibility and liability for the compliance with all applicable federal/state/local regulations pertaining to work practices, protection of workers, and visitors to the site, persons occupying areas adjacent to the site, hauling, and disposal of waste. The ABATEMENT CONTRACTOR shall hold the City and its representative harmless for the ABATEMENT CONTRACTOR's failure to comply with any applicable work, hauling, disposal, safety, health, or other regulation on the part of itself, its employees, or its SUB CONTRACTORs.

4. State requirements which govern asbestos abatement activities or hauling and disposal of hazardous waste include, but are not limited to, the following:

a) As required, ABATEMENT CONTRACTOR shall notify all Local, State, and Federal agencies regulating standards for the removal of asbestos-containing materials, including but not limited to: Cal-OSHA, San Diego Air Pollution Control District, and U.S. Environmental Protection Agency. ABATEMENT CONTRACTOR shall provide Owner a copy of each notification and a copy of a certified mail receipt proving proper notification to all required agencies.

b) ABATEMENT CONTRACTOR shall be registered as an asbestos contractor before performing any asbestos related work; a licensee must also be registered with the Department of Industrial Relations, Division of Occupational Safety and Health.

c) Transportation of hazardous materials shall be in accordance with the State of California Title 22 and the Department of Transportation regulations.

d) ABATEMENT CONTRACTOR shall comply with all provisions of California Title 8, Section 5208 and Section 1529.

e) ABATEMENT CONTRACTOR shall be in compliance with all provisions of Title 40 CFR Part 61.

f) ABATEMENT CONTRACTOR shall assume full responsibility and liability for compliance with all applicable Federal, State, and local regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to site, and persons occupying areas adjacent to the site.

E. PERMITS AND LICENSES

The ABATEMENT CONTRACTOR shall submit to the City in the bid submittal any permits or licenses necessary to carry out this work.

1. Permits

A valid Hazardous Waste Hauler registration is required for transporting any hazardous waste. Certain types of equipment require APCD permits (e.g., abrasive blasters).

2. Licenses

The ABATEMENT CONTRACTOR must be certified by the California Contractors State License Board. The ABATEMENT CONTRACTOR, or its subcontractor, shall have current licenses, as required by all applicable state or local

jurisdictions for the removal, transportation, disposal, or other regulated activity relative to the work described in this plan.

F. HEALTH AND SAFETY

This section describes the equipment and procedures required for protecting workers from asbestos contamination and other workplace hazards.

1. Provide worker protection as required by the most stringent OSHA and/or EPA standards applicable to the work.

2. Training

a) All workers are to be trained, certified and accredited as required by state or local code or regulation.

b) Train all workers, in accordance with Title 8 CCR section 5208 and section 1529, regarding the dangers inherent in handling asbestos and breathing asbestos dust, proper work procedures, and personal and area protective measures.

c) Provide medical examinations for all workers who may encounter an airborne fiber level of 0.1 fibers/cc or greater for an 8 hour Time Weighted Average. In the absence of specific airborne fiber data, provide medical examinations for all workers who will enter the Work Area for any reason. Examination shall as a minimum meet requirements as set forth in Title 8 CCR 1529. In addition, provide an evaluation of the individual's ability to work in environments capable of producing heat stress in the worker.

3. Protective clothing

a) Coveralls: Provide disposable "full body" coveralls and disposable head covers, and require that they be worn at all times by all workers in the Work Area. Provide a sufficient number for all required changes, for all workers in the Work Area.

b) Boots: Provide work boots with non-skid soles, and where required by OSHA, foot protection for all workers. Provide boots at no cost to workers. Do not allow boots to be removed from the Work Area for any reason, after being contaminated with asbestos-containing material. Thoroughly clean, decontaminate and bag boots before removing them from Work Area at the end of the work shift.

c) Hard Hats: Provide head protection (hard hats) as required by OSHA for all workers, and provide 1 spare for use by Owner's Representative, Project Administrator, and Owner. Require hard hats to be worn at all times that work is in progress that may potentially cause head injury. Provide hard hats of the type with plastic strap suspension. Require hats to remain in the Work Area throughout the work. Thoroughly clean, decontaminate and bag hats before removing them from Work Area at the end of the work shift.

d) Goggles: Provide eye protection (goggles) as required by OSHA for all workers involved in scraping, spraying, or any other activity which may potentially cause eye injury. Thoroughly clean, decontaminate and bag goggles before removing them from Work Area at the end of the work shift.

e) Gloves: Provide work gloves to all workers and require that they be worn at all times in the Work Area. Do not remove gloves from Work Area. Dispose of gloves as asbestos-contaminated waste at the end of the work shift.

4. Respirators

a) Air Purifying Respirators

(1) Respirator Bodies: Provide half-face or full-face type respirators based upon appropriate protection factor as determined by the ABATEMENT CONTRACTORS competent person. .

(2) Filter Cartridges: Provide, at a minimum, HEPA type filters labeled with NIOSH and for "Radionuclides, Radon Daughters, Dust, Fumes, Mists including Asbestos Containing Dusts and Mists" and color coded in accordance with ANSI Z228.2 (1980). In addition, a chemical cartridge section may be added, if required, for solvents, etc., in use. In this case, provide cartridges that have each section of the combination canister labeled with the appropriate color code and NIOSH Certification.

(3) Non permitted respirators: Do not use single use, disposable or quarter face respirators.

(4) Require that respiratory protection be used at all times when there is any possibility of disturbance of asbestos containing materials whether intentional or accidental.

(5) Require that a respirator be worn by anyone in a Work Area at all times, regardless of activity, during a period that starts with any operation which could cause airborne fibers until the area has been cleared for re occupancy.

(6) Regardless of Airborne Fiber Levels: Require that the minimum level of respiratory protection used be a half-face air purifying respirators with high efficiency filters.

b) Fit testing

(1) Initial Fitting: Provide initial fitting of respiratory protection during a respiratory protection course of training. Only allow an individual to use respirators for which training and fit testing has been provided.

(2) Upon Each Wearing: Require that each time an air purifying respirator is put on it be checked for fit with a positive and negative pressure fit check in accordance with the manufacturer's instructions or ANSI Z88.2 (1980).

c) Respirators, disposable coveralls, head covers, and foot covers shall be provided by the ABATEMENT CONTRACTOR for the City of San Diego's Asbestos and Lead Management Program's PROJECT MONITOR, and other authorized representatives who may inspect the job site. Provide six (6) complete coveralls and, where applicable, six (6) respirator filter changes per day.

5. Materials and Equipment

a) Only material and equipment that are recognized as being suitable for the intended use, by compliance with appropriate standards, may be used.

6. Water Service

a) The ABATEMENT CONTRACTOR will be able to obtain water services from on-site facilities. The City will designate the facilities from which water service may be obtained.

7. Electrical Services

a) The ABATEMENT CONTRACTOR will be able to obtain electrical services from on-site facilities. The City will designate the facilities from which electrical services may be obtained. The ABATEMENT CONTRACTOR shall provide their own electrical hook-ups, i.e. spider boxes, ground fault circuit interrupter (GFCI) etc. and installed by a licensed electrician.

b) The electrical services need to comply with the applicable NEMA, NECA, and UL standards, and governing regulations for materials and lay-out of temporary electrical services.

8. Sanitary Facilities

a) The ABATEMENT CONTRACTOR shall provide sanitary facilities on site, if none have been made available by the City.

9. Fire Extinguisher

a) Applicable recommendations of the National Fire Protection Association (NFPA) Standard 10, "Standard for Portable Fire Extinguishers," must be complied with by the ABATEMENT CONTRACTOR. Fire extinguishers need to be located where they are most convenient and effective for their intended purpose, but not less than one (1) extinguisher in each work area, the equipment room, outside/work areas, and in the clean room.

10. First Aid

a) The ABATEMENT CONTRACTOR will need to provide first aid supplies which should comply with the governing regulations and recognized recommendations within the construction industry.

G. WORK AREA PROCEDURES

1. Require that workers NOT eat, drink, smoke, chew tobacco or gum, or apply cosmetics in the Work Area.

2. ABATEMENT CONTRACTOR shall secure work area from access by public, staff or users of the area. Accomplish this where possible, by locking doors, gates, or other means of access to the area.

3. Barricade fencing is required for securing an outside area from unauthorized access. Work area delineation shall occur at no less then twelve feet (12') from the radius of the work and/or building. Yellow caution tape shall not be used.

4. All windows, vents, mechanical systems, etc., in close proximity to the abatement area shall be sealed with plastic and tape by the ABATEMENT CONTRACTOR prior to the work beginning.

5. View window as required by APCD Rule 1206 will be added where feasible when friable asbestos removal work is being performed under full containment.

6. Provide warning signs at entry to work area in accordance with California Title 8, Section 1529.

7. A visitor entry and exit-log, and an employee daily sign-in log shall be maintained throughout the asbestos abatement activities. The ABATEMENT CONTRACTOR shall be responsible for the project site security during the operations in order to protect work efforts and equipment.

H. REMOVAL OF ASBESTOS-CONTAINING MATERIALS

1. Asbestos-containing materials shall be adequately wetted with either amended water or a removal encapsulant before and during removal process, to reduce fiber emission.

2. The ABATEMENT CONTRACTOR should exercise caution in using water, as he will be solely responsible for any water damage to the facility resulting from the work.

3. ABATEMENT CONTRACTOR is responsible for keeping all asbestos containing debris within the containment area at all times throughout removal. Any interior contamination, if created, is the responsibility of the ABATEMENT CONTRACTOR to clean at no additional cost to the City.

4. ABATEMENT CONTRACTOR shall ensure there is no loose debris around the Work Area during the removal and if found, ABATEMENT CONTRACTOR shall clean the area immediately.

I. DISPOSAL

1. Both non-friable and friable ACM shall be containerized immediately, secured in a locked container, be transported by state licensed hauler with manifest, and disposed of at appropriate landfill location.

2. The PROJECT MONITOR or designated representative will inspect each load and sign all waste manifests before waste leaves the site.

3. Copies of Waste Shipment Records for each load of asbestos waste material shall be given to the City.

4. Cordon off the Work Area, a safe zone around the building, and the dumpster area with barrier fencing, if feasible. Yellow caution tape shall not be used.

5. Provide warning signs at Work Area access in accordance with Title 8 CCR 1529

J. DECONTAMINATION PROCEDURE

1. Prior to leaving the Work Area, HEPA vacuum outer suit completely and remove, turning it inside out while doing so.

2. Hygiene facilities such as change rooms and showers are not required to be adjacent to the operations on top of Work Areas on top of a roof, but these facilities must be provided [Title 8, Section 1529 (1)(3)]. Proceed to decontamination area **where the second suit is to be removed while turning it inside out.**

3. After wiping all areas and respirator, remove respirator and wipe facial area clean.

4. Place contaminated suits, towels, and respirator cartridges in a properly labeled asbestos waste bag.

5. At the completion of the project, boots, hard hats, and goggles should be decontaminated and bagged prior to removal from the Work Area.

6. Equipment leaving the Work Area should be HEPA vacuumed and wet wiped.

K. AIR MONITORING/WORK AREA CLEARANCE

1. The City's PROJECT MONITOR will provide ambient area air monitoring during all phases of the removal of asbestos-containing materials, including the interior and/or exterior of the facility.

2. During the project, personal air monitoring will be conducted by ABATEMENT CONTRACTOR to determine fiber levels. If fiber levels exceed 0.05 fibers/cc then work shall cease and not begin again until after PROJECT MONITOR approves the ABATEMENT CONTRACTOR's revised methodology which will lower fiber levels. Procedures shall be submitted in writing to the City prior to implementing these procedures. At a minimum, ABATEMENT CONTRACTOR shall provide air monitoring for every four workers. Testing of air samples will be by Phase Contrast Microscopy following NIOSH 7400 rules.

3. If any of the ambient area samples taken by the PROJECT MONITOR either inside or outside exceed 0.01 fibers/cc then ABATEMENT CONTRACTOR is required to pay for the additional testing on those samples collected using transmission electron microscopy (TEM).

4. Release of the ABATEMENT CONTRACTOR from the asbestos-containing material removal phase of the contract will be determined by the PROJECT MONITOR based upon the results of visual inspection and/or clearance air sampling.

L. TRANSPORTATION AND DISPOSAL

1. Any packaging used to ship hazardous waste off site such as a container, roll-off bin, tank or other device, must comply with 49 CFR Parts 173, 178, 179 and be labeled and prepared for transportation in accordance with Title 22 CCR Article 3. The hazardous waste label must be affixed and filled out when the first amount of hazardous waste is placed in the container. The label must include the initial accumulation date.

2. All additional pre-transportation labeling, marking or placarding must be conducted prior to transporting off site and in accordance with Title 22 CCR Chapter 12, Article 3.

3. All containers and tanks of hazardous waste must be managed in a way which minimizes the threat of fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste to the air, soil or surface water which could threaten human health or the environment. Management techniques include containment areas capable of holding the contents of largest container within the containment area. Properly store and secure waste at all times. Do not leave hazardous waste in uncovered or unlocked trucks or dumpsters.

4. A hazardous waste manifest will be completed in accordance with Title 22 CCR Chapter 12, Article 2 for each shipment of hazardous waste leaving the work site. All waste shall leave the project site by the end of the project. Only The PROJECT MONITOR shall sign as the generator on manifests.

APPENDIX A

CERTIFICATE OF WORKER'S ACKNOWLEDGMENT

PROJECT NAME: _____DATE: _____

PROJECT ADDRESS: _____

CONTRACTOR'S NAME: _____

Working with asbestos can be dangerous. Inhaling asbestos fibers has been linked with various types of cancer. If you smoke and inhale asbestos fibers the chance that you will develop lung cancer is greater than that of the non-smoking public.

Your employer's contract with the City for the above project requires that: You be supplied with the proper respirator and be trained in its use. You be trained in safe work practices and in the use of the equipment found on the job. You receive a medical examination. These things are to have been done at no cost to you.

RESPIRATORY PROTECTION: You must have been trained in the proper use of respirators, and informed of the type respirator to be used on the above referenced project. You must be given a copy of the written respiratory protection manual issued by your employer. You must be equipped at no cost with the respirator to be used on the above project.

TRAINING COURSE: You must have been trained in the dangers inherent in handling asbestos and breathing asbestos dust and in proper work procedures and personal and area protective measures. The topics covered in the course must have included the following:

- Physical characteristics of asbestos
- Health hazards associated with asbestos
- Respiratory protection
- Use of protective equipment
- Pressure Differential Systems
- Work practices including hands on or on job training
- Personal decontamination procedures
- Air monitoring, personal and area

MEDICAL EXAMINATION: You must have had a medical examination within the past 12 months at no cost to you. This examination must have included: health history, pulmonary function tests and may have included an evaluation of a chest x ray.

By signing this document you are acknowledging only that the City has advised you of your rights to training and protection relative to your employer, the ABATEMENT CONTRACTOR.

Signature: _____
Social Security No.: _____

Printed Name: _____

Witness (print): _____Witness Signature: _____

APPENDIX B

CERTIFICATION OF VISUAL INSPECTION

Project#: _____Date: _____Location: _____

Contractor: _____

The contractor hereby certifies that he/she has visually inspected the Work Area (all surfaces including pipes, counters, ledges, walls, ceiling and floor, behind critical barriers, sheet plastic, etc.) and has found no dust, debris or residue.

By: (Signature):_____ Date: _____

(Print Name): _____

(Company Name): _____

(Print Title): _____

CITY ALMP REPRESENTATIVE

The City ALMP Representative hereby certifies that he has accompanied the contractor on his/her visual inspection and verifies that this inspection has been thorough and to the best of his/her knowledge and belief, the contractor's certification above is a true and honest one.

By: (Signature):_____ Date: _____

(Print Name): _____

WORK AREA

Location: _____

Room: _____

Hazard Reduction Performed: _____

_____

_____

_____

APPENDIX C

SUMMARY OF ASBESTOS RESULTS

Sample #	Material	Estimated Quantity	Location	Condition	Asbestos (%)
B-04A, B-05A, B-06A Order #432403567	Drywall Joint Compound	300 SF	House of Poland (Kitchen)	Good	2% Chrysotile
B-09A Order #432403570	Exterior Stucco Base Coat	2000 SF	House of Germany (Exterior Stucco)	Good	<1% Chrysotile
B-04 Order #432403576	Exterior Stucco Finish Coat	2000 SF	House of Ireland	Good	<1% Chrysotile
B-06 Order #432403596	Exterior Stucco Finish Coat	2000 SF	House of Ukraine	Good	<1% Chrysotile
B-07, B-08, B-09 Order #432403597	Exterior Stucco Finish Coat	2000 SF	House of Sweden	Good	<1% Chrysotile
B-04, B-05, B-06 Order# 430403598	Exterior Stucco Finish Coat	2000 SF	House of Denmark	Good	<1% Chrysotile
B-02A Order #430403602	Drywall Joint Compound	1000 SF	House of Italy	Good	2% Chrysotile

(Contractor to verify all quantities)

APPENDIX D

ASBESTOS INSPECTION REPORT

Attachment # 1

ASBESTOS SAMPLE LOGS & LABORATORY REPORTS

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111
Tel/Fax: (858) 499-1303 / (858) 499-1304
http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403567
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/20/2024 - 04/26/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-01 *432403567-0001* *Only plaster present in sample.*	HOUSE OF POLAND / KITCHEN PLASTER S. SIDE WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02-Skim Coat *432403567-0002*	HOUSE OF POLAND / RESTROOM PLASTER N. SIDE WALL	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02-Plaster *432403567-0002A*	HOUSE OF POLAND / RESTROOM PLASTER N. SIDE WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Skim Coat *432403567-0003*	HOUSE OF POLAND / ENTRANCE N. SIDE WALL	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Plaster *432403567-0003A*	HOUSE OF POLAND / ENTRANCE N. SIDE WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04-Drywall *432403567-0004*	HOUSE OF POLAND / KITCHEN DRYWALL N. SIDE WALL	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
86583-B-04-Joint Compound *432403567-0004A*	HOUSE OF POLAND / KITCHEN DRYWALL N. SIDE WALL	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	**2% Chrysotile**
86583-B-05-Drywall *432403567-0005*	HOUSE OF POLAND / KITCHEN DRYWALL N. SIDE WALL	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
86583-B-05-Joint Compound *432403567-0005A*	HOUSE OF POLAND / KITCHEN DRYWALL N. SIDE WALL	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	**2% Chrysotile**
86583-B-06-Drywall *432403567-0006*	HOUSE OF POLAND / KITCHEN DRYWALL N. SIDE WALL	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
86583-B-06-Joint Compound *432403567-0006A*	HOUSE OF POLAND / KITCHEN DRYWALL N. SIDE WALL	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	**2% Chrysotile**
86583-B-07 *432403567-0007*	HOUSE OF POLAND / EXTERIOR STUCCO SIDE A WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-08 *432403567-0008*	HOUSE OF POLAND / EXTERIOR STUCCO SIDE A WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/29/2024 14:23:29

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111

Tel/Fax: (858) 499-1303 / (858) 499-1304

http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403567
Customer ID:	SAND52
Customer PO:	
Project ID:	

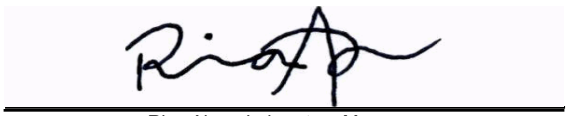
Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-09-Finish Coat *432403567-0009*	HOUSE OF POLAND / EXTERIOR STUCCO SIDE D WALL	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-09-Base Coat *432403567-0009A*	HOUSE OF POLAND / EXTERIOR STUCCO SIDE D WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Emilia Dziedzic (9)

Joseph Gutierrez (6)



Riva Alger, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 “Interim Method”) but augmented with procedures outlined in the 1993 (”final”) version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 04/29/2024 14:23:29

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP - Laboratory Submittal

#4324035567

The City of SAN DIEGO

Project # 40400086583 Sampled by: Adrian Urbina Sampled Date: 04/12/24 Page 1 of 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☑ OTHER: 2 Week

The receiving Laboratory is required to complete the following:

1. All Invoices are to be sent to: ALMP@Sandiego.gov or City of San Diego, ESD, ALMP, 9601 Ridgehaven Court, Suite 310 San Diego, CA 92123
2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

*Type of Sampling: In Work Area (IWA) Outside Work Area (OWA) Clearance (C) Soil (S) Air (A) Bulk (B) Neg. Air Exhaust (NAE) Dust Wipe (DW) Waste Characterization (WC)

Sample # Prefix: 8S83

Lab Number	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
	B-01	B	House of Poland/ Kitchen Plaster S.Side Wall	Bulk							PLM
	B-02	B	House of Poland/ Restroom Plaster N.Side Wall	Bulk							PLM
	B-03	B	House of Poland/ Entrance N.Side Wall	Bulk							PLM
	B-04	B	House of Poland/ Kitchen Drywall N.Side Wall	Bulk							PLM
	B-05	B	House of Poland/ Kitchen Drywall N.Side Wall	Bulk							PLM
	B-06	B	House of Poland/ Kitchen Drywall N.Side Wall	Bulk							PLM
	B-07	B	House of Poland/ Exterior Stucco Side A Wall	Bulk							PLM
	B-08	B	House of Poland/ Exterior Stucco Side A Wall	Bulk							PLM
	B-09	B	House of Poland/ Exterior Stucco Side D Wall	Bulk							PLM

NOTES: Stop Positive B-01 - B-03
B-04 - B-06
B-07 - B-09

Relinquished by (Print name): Adrian Urbina	Relinquished by (Print name):
Signature:	Signature:
Date/Time: 4/17/24	Date/Time:
Received by (Print name): Nevin Wallis	Received by (Print name):
Signature:	Signature:
Date/Time: 4/18/24 10:00am	Date/Time:

Page 1 Of 1

OrderID: 432403567

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111

Tel/Fax: (858) 499-1303 / (858) 499-1304

http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403568
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/26/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086563		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86563-B-01-Skim Coat *432403568-0001*	HOUSE OF FINLAND / HALLWAY PLASTER W. SIDE WALL	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-01-Plaster *432403568-0001A*	HOUSE OF FINLAND / HALLWAY PLASTER W. SIDE WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-02-Skim Coat *432403568-0002*	HOUSE OF FINLAND / LOBBY PLASTER S. SIDE WALL	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-02-Plaster *432403568-0002A*	HOUSE OF FINLAND / LOBBY PLASTER S. SIDE WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-03-Skim Coat *432403568-0003*	HOUSE OF FINLAND / LOBBY PLASTER S. SIDE WALL	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-03-Plaster *432403568-0003A*	HOUSE OF FINLAND / LOBBY PLASTER S. SIDE WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-04-Finish Coat *432403568-0004* *Light gray.*	HOUSE OF FINLAND / EXTERIOR STUCCO SIDE A	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-04-Base Coat *432403568-0004A* *Dark gray.*	HOUSE OF FINLAND / EXTERIOR STUCCO SIDE A	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-05-Finish Coat *432403568-0005* *Light gray.*	HOUSE OF FINLAND / EXTERIOR STUCCO SIDE C	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-05-Base Coat *432403568-0005A* *Dark gray.*	HOUSE OF FINLAND / EXTERIOR STUCCO SIDE C	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-06-Finish Coat *432403568-0006* *Light gray.*	HOUSE OF FINLAND / EXTERIOR STUCCO SIDE D	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-06-Base Coat *432403568-0006A* *Dark gray.*	HOUSE OF FINLAND / EXTERIOR STUCCO SIDE D	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/29/2024 14:32:16

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111

Tel/Fax: (858) 499-1303 / (858) 499-1304

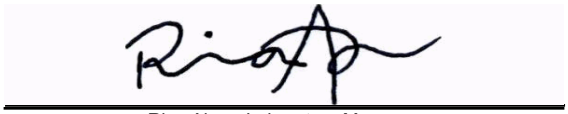
http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403568
Customer ID:	SAND52
Customer PO:	
Project ID:	

Analyst(s)

Gabriella Angulo-Quigley (8)

Lisa Roberts (4)



Riva Alger, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 04/29/2024 14:32:16

#4324035568

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP - Laboratory Submittal

The City of SAN DIEGO

Project # 40400086563 Sampled by: Adrian Urbina Sampled Date: 04/12/24 Page 1 of 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☑ OTHER: 2 Week

The receiving Laboratory is required to complete the following:

1. All Invoices are to be sent to: ALMP@Sandiego.gov or City of San Diego, ESD, ALMP, 9601 Ridgehaven Court, Suite 310 San Diego, CA 92123
2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

*Type of Sampling: In Work Area (IWA) Air (A) Bulk (B) | Outside Work Area (OWA) Neg. Air Exhaust (NAE) | Clearance (C) Dust Wipe (DW) | Soil (S) Waste Characterization (WC)

Sample # Prefix: 8563

Lab Number	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
	B-01	B	House of Finland/ Hallway Plaster W.Side Wall	Bulk							PLM
	B-02	B	House of Finland/ Lobby Plaster S.Side Wall	Bulk							PLM
	B-03	B	House of Finland/ Lobby Plaster S.Side Wall	Bulk							PLM
	B-04	B	House of Finland/ Exterior Stucco Side A	Bulk							PLM
	B-05	B	House of Finland/ Exterior Stucco Side C	Bulk							PLM
	B-06	B	House of Finland/ Exterior Stucco Side D	Bulk							PLM

NOTES: Stop Positive B-01 - B-03
B-04 - B-06

Relinquished by (Print name): Adrian Urbina	Relinquished by (Print name):
Signature:	Signature:
Date/Time: 4/17/2024	Date/Time:
Received by (Print name): Nevin Wallis	Received by (Print name):
Signature:	Signature:
Date/Time: 4/18/24 10:00am	Date/Time:

Page 1 Of 1

OrderID: 432403568

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111
Tel/Fax: (858) 499-1303 / (858) 499-1304
http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403569
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/26/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086563		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86563-B-01 *432403569-0001* *Sample resembles joint compound.*	HOUSE OF ISREAL / KITCHEN DW N. SIDE WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-02 *432403569-0002* *Sample resembles joint compound.*	HOUSE OF ISREAL / ENTRANCE DW W. SIDE WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-03-Drywall *432403569-0003*	HOUSE OF ISREAL / BEHIND DESK DW W. SIDE WALL	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
86563-B-03-Joint Compound *432403569-0003A*	HOUSE OF ISREAL / BEHIND DESK DW W. SIDE WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-04 *432403569-0004*	HOUSE OF ISREAL / EXTERIOR STUCCO SIDE A	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-05 *432403569-0005*	HOUSE OF ISREAL / EXTERIOR STUCCO SIDE C	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-06-Finish Coat *432403569-0006*	HOUSE OF ISREAL / EXTERIOR STUCCO SIDE D	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-06-Base Coat *432403569-0006A*	HOUSE OF ISREAL / EXTERIOR STUCCO SIDE D	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Eric Sun (4)
Lisa Roberts (4)

Riva Alger, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 04/29/2024 14:19:54

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP – Laboratory Submittal

432403569

The City of SAN DIEGO

Project # 40400086563 Sampled by: Adrian Urbina Sampled Date: 04/12/24 Page 1 of 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☑ OTHER: 2 Week

The receiving Laboratory is required to complete the following:

1. All Invoices are to be sent to: ALMP@Sandiego.gov or City of San Diego, ESD, ALMP, 9601 Ridgehaven Court, Suite 310 San Diego, CA 92123
2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

*Type of Sampling: In Work Area (IWA) Air (A) Bulk (B) | Outside Work Area (OWA) Neg. Air Exhaust (NAE) | Clearance (C) Dust Wipe (DW) | Soil (S) Waste Characterization (WC)

Sample # Prefix: 40400

Lab Number	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
	B-01	B	House of Isreal/ Kitchen Drywall N.Side Wall	Bulk							PLM
	B-02	B	House of Isreal/ Entrance Drywall W.Side Wall	Bulk							PLM
	B-03	B	House of Isreal/ Behind Desk Drywall W.Side Wall	Bulk							PLM
	B-04	B	House of Isreal/ Exterior Stucco Side A	Bulk							PLM
	B-05	B	House of Isreal/ Exterior Stucco Side C	Bulk							PLM
	B-06	B	House of Isreal/ Exterior Stucco Side D	Bulk							PLM

NOTES: Stop Positive B-01 - B-03
B-04 - B-06

Relinquished by (Print name): Adrian Urbina Signature: Date/Time: 4/17/2024	Relinquished by (Print name): Signature: Date/Time:
Received by (Print name): Nevin Wallis Signature: Date/Time: 4/18/24 10:00am	Received by (Print name): Signature: Date/Time:

Page 1 Of 1

OrderID: 432403569

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7725 Convoy Court San Diego, CA 92111

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EMSL Order:	432403570
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/27/2024 - 04/30/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-01-Skim Coat *432403570-0001*	HOUSE OF GERMANY / MAIN ROOM PLASTER W. SIDE WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-01-Plaster *432403570-0001A*	HOUSE OF GERMANY / MAIN ROOM PLASTER W. SIDE WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02 *432403570-0002*	HOUSE OF GERMANY / ENTRANCE PLASTER E. SIDE WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03 *432403570-0003*	HOUSE OF GERMANY / RESTROOM N. SIDE WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04 *432403570-0004*	HOUSE OF GERMANY / MAIN ROOM 1 X 1 CEILING TILE	Gray Fibrous Homogeneous	60% Min. Wool	20% Perlite 20% Non-fibrous (Other)	None Detected
86583-B-05 *432403570-0005*	HOUSE OF GERMANY / MAIN ROOM 1 X 1 CEILING TILE	Gray Fibrous Homogeneous	60% Min. Wool	15% Perlite 25% Non-fibrous (Other)	None Detected
86583-B-06 *432403570-0006*	HOUSE OF GERMANY / MAIN ROOM 1 X 1 CEILING TILE	Gray Fibrous Homogeneous	50% Min. Wool	12% Perlite 38% Non-fibrous (Other)	None Detected
86583-B-07-Finish Coat *432403570-0007*	HOUSE OF GERMANY / EXTERIOR STUCCO SIDE B WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-07-Base Coat *432403570-0007A*	HOUSE OF GERMANY / EXTERIOR STUCCO SIDE B WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-08 *432403570-0008*	HOUSE OF GERMANY / EXTERIOR STUCCO SIDE C WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-09-Finish Coat *432403570-0009*	HOUSE OF GERMANY / EXTERIOR STUCCO SIDE D WALL	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-09-Base Coat *432403570-0009A*	HOUSE OF GERMANY / EXTERIOR STUCCO SIDE D WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**<1% Chrysotile**

Initial report from: 04/30/2024 20:22:03

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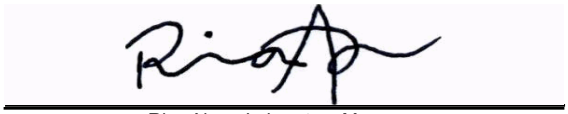
EMSL Order:	432403570
Customer ID:	SAND52
Customer PO:	
Project ID:	

Analyst(s)

Eric Sun (8)

Gabriella Angulo-Quigley (4)



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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 04/30/2024 20:22:03

#4324035 70

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP – Laboratory Submittal

The City of SAN DIEGO

Project # 40400086583 Sampled by: Adrian Urbina Sampled Date: 04/12/24 Page 1 of 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☑ OTHER: 2 Week

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2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

*Type of Sampling: In Work Area (IWA) Outside Work Area (OWA) Clearance (C) Soil (S)
Air (A) Bulk (B) Neg. Air Exhaust (NAE) Dust Wipe (DW) Waste Characterization (WC)

Sample # Prefix: 46583

Lab Number	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
	B-01	B	House of Germany/ Main Room Plaster W.Side Wall	Bulk							PLM
	B-02	B	House of Germany/ Entrance Plaster E.Side Wall	Bulk							PLM
	B-03	B	House of Germany/ Restroom N.Side Wall	Bulk							PLM
	B-04	B	House of Germany/ Main Room 1x1 Ceiling Tile	Bulk							PLM
	B-05	B	House of Germany/ Main Room 1x1 Ceiling Tile	Bulk							PLM
	B-06	B	House of Germany/ Main Room 1x1 Ceiling Tile	Bulk							PLM
	B-07	B	House of Germany/ Exterior Stucco Side B Wall	Bulk							PLM
	B-08	B	House of Germany/ Exterior Stucco Side C Wall	Bulk							PLM
	B-09	B	House of Germany/ Exterior Stucco Side D Wall	Bulk							PLM

NOTES: Stop Positive B-01 - B-03
B-04 - B-06
B-07 - B-09

Relinquished by (Print name): Adrian Urbina	Relinquished by (Print name):
Signature:	Signature:
Date/Time: 4/17/24	Date/Time:
Received by (Print name): Navin Wallis	Received by (Print name):
Signature:	Signature:
Date/Time: 4/18/24 10:00am	Date/Time:

Page 1 Of 1

OrderID: 432403570

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EMSL Order:	432403574
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/22/2024 - 04/27/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-01 *432403574-0001*	HOUSE OF CZECH AND SOLVAK REPUBLICS / PL WALL E. SIDE ENTRANCE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02 *432403574-0002*	HOUSE OF CZECH AND SOLVAK REPUBLICS / PL WALL W. SIDE RESTROOM	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03 *432403574-0003*	HOUSE OF CZECH AND SOLVAK REPUBLICS / PL WALL E. SIDE MAIN ROOM	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04-Finish Coat *432403574-0004*	HOUSE OF CZECH AND SOLVAK REPUBLICS / STUCCO SIDE B WALL	Green/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04-Base Coat *432403574-0004A*	HOUSE OF CZECH AND SOLVAK REPUBLICS / STUCCO SIDE B WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05-Finish Coat *432403574-0005*	HOUSE OF CZECH AND SOLVAK REPUBLICS / STUCCO SIDE C WALL	Green/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05-Base Coat *432403574-0005A*	HOUSE OF CZECH AND SOLVAK REPUBLICS / STUCCO SIDE C WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Finish Coat *432403574-0006*	HOUSE OF CZECH AND SOLVAK REPUBLICS / STUCCO SIDE D WALL	Green/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Base Coat *432403574-0006A*	HOUSE OF CZECH AND SOLVAK REPUBLICS / STUCCO SIDE D WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/29/2024 14:29:50

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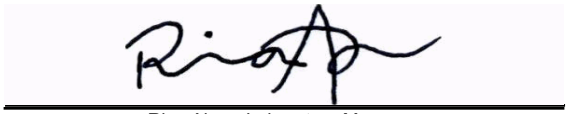
EMSL Order:	432403574
Customer ID:	SAND52
Customer PO:	
Project ID:	

Analyst(s)

Emilia Dziedzic (3)

Joseph Gutierrez (6)



Riva Alger, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 04/29/2024 14:29:50

4324035 74

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP – Laboratory Submittal

The City of SAN DIEGO

Project # 40400086583 Sampled by: Adrian Urbina Sampled Date: 04/12/24 Page 1 of 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☒ OTHER: 2 week

The receiving Laboratory is required to complete the following:

1. All Invoices are to be sent to: ALMP@Sandiego.gov or City of San Diego, ESD, ALMP, 9601 Ridgehaven Court, Suite 310 San Diego, CA 92123
2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

*Type of Sampling: In Work Area (IWA) Air (A) Bulk (B) | Outside Work Area (OWA) Neg. Air Exhaust (NAE) | Clearance (C) Dust Wipe (DW) | Soil (S) Waste Characterization (WC)

Sample # Prefix: 24583

Lab Number	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
	B-01	B	House of Czech and Solvak Republics/ Plaster Wall E.Side Entrance	Bulk							PLM
	B-02	B	House of Czech and Solvak Republics/ Plaster Wall W.Side Restroom	Bulk							PLM
	B-03	B	House of Czech and Solvak Republics/ Plaster Wall E.Side Main Room	Bulk							PLM
	B-04	B	House of Czech and Solvak Republics/ Stucco Side B Wall	Bulk							PLM
	B-05	B	House of Czech and Solvak Republics/ Stucco Side C Wall	Bulk							PLM
	B-06	B	House of Czech and Solvak Republics/ Stucco Side D Wall	Bulk							PLM

NOTES: Stop Positive for B-01 - B-03
" " " B-04 - B-06

Relinquished by (Print name): Adrian Urbina Signature: Date/Time: 4/12/2024	Relinquished by (Print name): Signature: Date/Time:
Received by (Print name): Nuria Walters Signature: Date/Time: 4/18/24 10:00am	Received by (Print name): Signature: Date/Time:

Page 1 Of 1

OrderID: 432403574

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111

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http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403575
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/22/2024 - 04/30/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-01 *432403575-0001*	HOUSES OF FRANCE & COLUMBIA / PLASTER WALL COLUMBIA S. SIDE ENTRANCE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02 *432403575-0002*	HOUSES OF FRANCE & COLUMBIA / PLASTER WALL COLUMBIA W. SIDE KITCHEN	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03 *432403575-0003*	HOUSES OF FRANCE & COLUMBIA / PLASTER WALL BETWEEN COLUMBIA AND FRANCE SEPARATE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04-Finish Coat *432403575-0004*	HOUSES OF FRANCE & COLUMBIA / STUCCO SIDE A WALL	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04-Base Coat *432403575-0004A*	HOUSES OF FRANCE & COLUMBIA / STUCCO SIDE A WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05-Finish Coat *432403575-0005*	HOUSES OF FRANCE & COLUMBIA / STUCCO SIDE C WALL	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05-Base Coat *432403575-0005A*	HOUSES OF FRANCE & COLUMBIA / STUCCO SIDE C WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Finish Coat *432403575-0006*	HOUSES OF FRANCE & COLUMBIA / STUCCO SIDE C WALL	Green/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Base Coat *432403575-0006A*	HOUSES OF FRANCE & COLUMBIA / STUCCO SIDE C WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/30/2024 16:46:00

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111

Tel/Fax: (858) 499-1303 / (858) 499-1304

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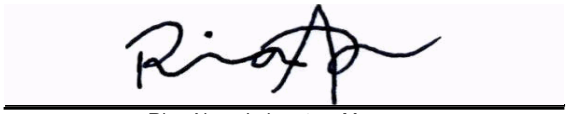
EMSL Order:	432403575
Customer ID:	SAND52
Customer PO:	
Project ID:	

Analyst(s)

Emilia Dziedzic (3)

Joseph Gutierrez (6)



Riva Alger, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 04/30/2024 16:46:00

#432403575

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP - Laboratory Submittal

The City of SAN DIEGO

Project # 40400086583 Sampled by: Adrian Urbina Sampled Date: 04/12/24 Page 1 of 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☒ OTHER: 2 week

The receiving Laboratory is required to complete the following:

1. All Invoices are to be sent to: ALMP@Sandiego.gov or City of San Diego, ESD, ALMP, 9601 Ridgehaven Court, Suite 310 San Diego, CA 92123
2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

*Type of Sampling: In Work Area (IWA) Air (A) Bulk (B) Outside Work Area (OWA) Neg. Air Exhaust (NAE) Clearance (C) Dust Wipe (DW) Soil (S) Waste Characterization (WC)

Sample # Prefix: 8683

Lab Number	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
	B-01	B	Houses of France&Columbia/ Plaster Wall Columbia S.Side Entrance	Bulk							PLM
	B-02	B	Houses of France&Columbia/ Plaster Wall W. Side Kitchen	Bulk							PLM
	B-03	B	Houses of France&Columbia/ Plaster Wall Between Columbia and France Seperate	Bulk							PLM
	B-04	B	Houses of France&Columbia/ Stucco Side A Wall	Bulk							PLM
	B-05	B	Houses of France&Columbia/ Stucco Side C Wall	Bulk							PLM
	B-06	B	Houses of France&Columbia/ Stucco Side C Wall	Bulk							PLM

NOTES: Stop Positive for B-01 - B-03
" " " B-04 - B-06

Relinquished by (Print name): Adrian Urbina	Relinquished by (Print name):
Signature:	Signature:
Date/Time: 4/12/2024	Date/Time:
Received by (Print name): Nevin Wells	Received by (Print name):
Signature:	Signature:
Date/Time: 4/18/24 10:00am	Date/Time:

OrderID: 432403575

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7725 Convoy Court San Diego, CA 92111

Tel/Fax: (858) 499-1303 / (858) 499-1304

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EMSL Order:	432403576
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/22/2024 - 04/30/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086563		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86563-B-01-Skim Coat 1 *432403576-0001*	HOUSE OF IRELAND / MAIN ROOM PLASTER N. SIDE WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-01-Skim Coat 2 *432403576-0001A*	HOUSE OF IRELAND / MAIN ROOM PLASTER N. SIDE WALL	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-01-Plaster *432403576-0001B*	HOUSE OF IRELAND / MAIN ROOM PLASTER N. SIDE WALL	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-02 *432403576-0002*	HOUSE OF IRELAND / RESTROOM PLASTER W. SIDE WALL	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-03-Skim Coat 1 *432403576-0003*	HOUSE OF IRELAND / LOBBY PLASTER E. SIDE WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-03-Skim Coat 2 *432403576-0003A*	HOUSE OF IRELAND / LOBBY PLASTER E. SIDE WALL	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-03-Plaster *432403576-0003B*	HOUSE OF IRELAND / LOBBY PLASTER E. SIDE WALL	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-04-Finish Coat 1 *432403576-0004*	HOUSE OF IRELAND / EXTERIOR STUCCO SIDE A	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**<1% Chrysotile**
86563-B-04-Finish Coat 2 *432403576-0004A*	HOUSE OF IRELAND / EXTERIOR STUCCO SIDE A	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-04-Base Coat *432403576-0004B*	HOUSE OF IRELAND / EXTERIOR STUCCO SIDE A	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-05-Finish Coat *432403576-0005*	HOUSE OF IRELAND / EXTERIOR STUCCO SIDE B	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-05-Base Coat *432403576-0005A*	HOUSE OF IRELAND / EXTERIOR STUCCO SIDE B	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-06-Finish Coat *432403576-0006*	HOUSE OF IRELAND / EXTERIOR STUCCO SIDE C	Green/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-06-Base Coat *432403576-0006A*	HOUSE OF IRELAND / EXTERIOR STUCCO SIDE C	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/30/2024 20:13:42

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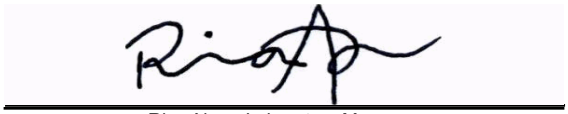
EMSL Order:	432403576
Customer ID:	SAND52
Customer PO:	
Project ID:	

Analyst(s)

Emilia Dziedzic (5)

Joseph Gutierrez (9)



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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 04/30/2024 20:13:42

#432403576

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP – Laboratory Submittal

The City of SAN DIEGO

Project # 40400086563 Sampled by: Adrian Urbina Sampled Date: 04/12/24 Page 1 of 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☑ OTHER: 2 Week

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2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

*Type of Sampling: In Work Area (IWA) Air (A) Bulk (B) | Outside Work Area (OWA) Neg. Air Exhaust (NAE) | Clearance (C) Dust Wipe (DW) | Soil (S) Waste Characterization (WC)

Sample # Prefix: 86563

Lab Number	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
	B-01	B	House of Ireland/ Main Room Plaster N.Side Wall	Bulk							PLM
	B-02	B	House of Ireland/ Restroom Plaster W.Side Wall	Bulk							PLM
	B-03	B	House of Ireland/ Lobby Plaster E.Side Wall	Bulk							PLM
	B-04	B	House of Ireland/ Exterior Stucco Side A	Bulk							PLM
	B-05	B	House of Ireland/ Exterior Stucco Side B	Bulk							PLM
	B-06	B	House of Ireland/ Exterior Stucco Side C	Bulk							PLM

NOTES: Stop Positive B-01 - B-03
B-04 - B-06

Relinquished by (Print name): Adrian Urbina Signature: Date/Time: 4/17/2024	Relinquished by (Print name): Signature: Date/Time:
Received by (Print name): Navin Wallis Signature: Date/Time: 4/18/24 10:00am	Received by (Print name): Signature: Date/Time:

Page 1 Of 1

OrderID: 432403576

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http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403581
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/26/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-01-Skim Coat *432403581-0001*	HOUSE OF ENGLAND / PLASTER WALL E. SIDE ENTRANCE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-01-Plaster *432403581-0001A*	HOUSE OF ENGLAND / PLASTER WALL E. SIDE ENTRANCE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02-Skim Coat *432403581-0002*	HOUSE OF ENGLAND / PLASTER WALL E. SIDE ENTRANCE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02-Plaster *432403581-0002A*	HOUSE OF ENGLAND / PLASTER WALL E. SIDE ENTRANCE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Skim Coat *432403581-0003*	HOUSE OF ENGLAND / PLASTER WALL E. SIDE ENTRANCE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Plaster *432403581-0003A*	HOUSE OF ENGLAND / PLASTER WALL E. SIDE ENTRANCE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Texture *432403581-0003B*	HOUSE OF ENGLAND / PLASTER WALL E. SIDE ENTRANCE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04 *432403581-0004*	HOUSE OF ENGLAND / STUCCO SIDE A WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05 *432403581-0005*	HOUSE OF ENGLAND / STUCCO SIDE C WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Finish Coat *432403581-0006*	HOUSE OF ENGLAND / STUCCO SIDE D WALL	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Base Coat *432403581-0006A*	HOUSE OF ENGLAND / STUCCO SIDE D WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/29/2024 14:25:27

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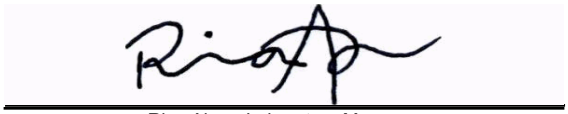
EMSL Order:	432403581
Customer ID:	SAND52
Customer PO:	
Project ID:	

Analyst(s)

Eric Sun (6)
Joseph Gutierrez (5)



Riva Alger, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 04/29/2024 14:25:27

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP – Laboratory Submittal

#4324035581

The City of SAN DIEGO

Project # 40400086583 Sampled by: Adrian Urbina Sampled Date: 04/12/24 Page 1 of 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☒ OTHER: 2 week

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2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

*Type of Sampling: In Work Area (IWA) Air (A) Bulk (B) | Outside Work Area (OWA) Neg. Air Exhaust (NAE) | Clearance (C) Dust Wipe (DW) | Soil (S) Waste Characterization (WC)

Sample # Prefix: 86583

Lab Number	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
	B-01	B	House of England/ Plaster Wall E.Side Entrance	Bulk							PLM
	B-02	B	House of England/ Plaster Wall E.Side Kitchen	Bulk							PLM
	B-03	B	House of England/ Plaster Wall E.Side Kitchen	Bulk							PLM
	B-04	B	House of England/ Stucco Side A Wall	Bulk							PLM
	B-05	B	House of England/ Stucco Side C Wall	Bulk							PLM
	B-06	B	House of England/ Stucco Side D Wall	Bulk							PLM

NOTES: Stop Positive for B-01 - B-03
" " " B-04 - B-06

Relinquished by (Print name): Adrian Urbina Signature: Date/Time: 4/12/2024	Relinquished by (Print name): Signature: Date/Time:
Received by (Print name): Nam Walls Signature: Date/Time: 4/18/24 10:00am	Received by (Print name): Signature: Date/Time:

Page 1 Of 1

OrderID: 432403581

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EMSL Order:	432403582
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/26/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086563		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86563-B-01 *432403582-0001*	HOUSE OF U.S.A / LOBBY PL E. SIDE WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-02 *432403582-0002*	HOUSE OF U.S.A / RESTROOM PL W. SIDE WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-03-Skim Coat *432403582-0003*	HOUSE OF U.S.A / LOBBY PL N. SIDE WALL	Yellow/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-03-Plaster *432403582-0003A*	HOUSE OF U.S.A / LOBBY PL N. SIDE WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-04 *432403582-0004*	HOUSE OF U.S.A / EXTERIOR STUCCO SIDE A	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-05 *432403582-0005*	HOUSE OF U.S.A / EXTERIOR STUCCO SIDE B	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86563-B-06 *432403582-0006*	HOUSE OF U.S.A / EXTERIOR STUCCO SIDE C	Gray/Green/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Joseph Gutierrez (3)
Peter Pham (4)

Riva Alger, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 04/29/2024 14:27:53

432403582

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP – Laboratory Submittal

The City of SAN DIEGO

Project # 40400086563 Sampled by: Adrian Urbina Sampled Date: 04/12/24 Page 1 of 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☑ OTHER: 2 Week

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2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

*Type of Sampling: In Work Area (IWA) Outside Work Area (OWA) Clearance (C) Soil (S) Air (A) Bulk (B) Neg. Air Exhaust (NAE) Dust Wipe (DW) Waste Characterization (WC)

Sample # Prefix: 4563

Lab Number	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
	B-01	B	House of U.S.A/ Lobby Plaster E.Side Wall	Bulk							PLM
	B-02	B	House of U.S.A/ Restroom Plaster W.Side Wall	Bulk							PLM
	B-03	B	House of U.S.A/ Lobby Plaster N.Side Wall	Bulk							PLM
	B-04	B	House of U.S.A/ Exterior Stucco Side A	Bulk							PLM
	B-05	B	House of U.S.A/ Exterior Stucco Side B	Bulk							PLM
	B-06	B	House of U.S.A/ Exterior Stucco Side C	Bulk							PLM

NOTES: Stop Positive B-01 - B-03
B-04 - B-06

Relinquished by (Print name): Adrian Urbina Signature: Date/Time: 4/17/2024	Relinquished by (Print name): Signature: Date/Time:
Received by (Print name): Nwin Wallis Signature: Date/Time: 4/18/24 10:00am	Received by (Print name): Signature: Date/Time:

OrderID: 432403582

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7725 Convoy Court San Diego, CA 92111
Tel/Fax: (858) 499-1303 / (858) 499-1304
http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403596
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/22/2024 - 05/01/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-01-Skim Coat *432403596-0001*	HOUSE OF UKRAINE / PL WALL W. SIDE MAIN ROOM	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-01-Plaster *432403596-0001A*	HOUSE OF UKRAINE / PL WALL W. SIDE MAIN ROOM	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02-Skim Coat *432403596-0002*	HOUSE OF UKRAINE / PL WALL W. SIDE RESTROOM	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02-Plaster *432403596-0002A*	HOUSE OF UKRAINE / PL WALL W. SIDE RESTROOM	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Skim Coat *432403596-0003*	HOUSE OF UKRAINE / PL WALL E. SIDE ENTRANCE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Plaster *432403596-0003A*	HOUSE OF UKRAINE / PL WALL E. SIDE ENTRANCE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Texture *432403596-0003B*	HOUSE OF UKRAINE / PL WALL E. SIDE ENTRANCE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04-Finish Coat *432403596-0004*	HOUSE OF UKRAINE / STUCCO SIDE A WALL	Brown/Black/Green Non-Fibrous Heterogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
Result includes a small amount of inseparable attached black debris.					
86583-B-04-Base Coat *432403596-0004A*	HOUSE OF UKRAINE / STUCCO SIDE A WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05-Finish Coat *432403596-0005*	HOUSE OF UKRAINE / STUCCO SIDE B WALL	Brown/Green Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
Black debris present in sample.					
86583-B-05-Base Coat *432403596-0005A*	HOUSE OF UKRAINE / STUCCO SIDE B WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05-Debris *432403596-0005B*	HOUSE OF UKRAINE / STUCCO SIDE B WALL	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Finish Coat *432403596-0006*	HOUSE OF UKRAINE / STUCCO SIDE C WALL	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**<1% Chrysotile**
86583-B-06-Base Coat *432403596-0006A*	HOUSE OF UKRAINE / STUCCO SIDE C WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/01/2024 19:32:51

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EMSL Order:	432403596
Customer ID:	SAND52
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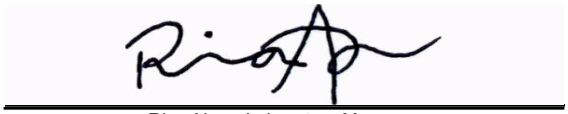
Project ID:	

Analyst(s)

Emilia Dziedzic (5)
Joseph Gutierrez (9)



Riva Alger, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 05/01/2024 19:32:51

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP - Laboratory Submittal

4324035596

The City of SAN DIEGO

Project # 40400086583 **Sampled by:** Adrian Urbina **Sampled Date:** 04/12/24 **Page** 1 **of** 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☒ OTHER: 2 week

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1. All Invoices are to be sent to: ALMP@Sandiego.gov or City of San Diego, ESD, ALMP, 9601 Ridgehaven Court, Suite 310 San Diego, CA 92123
2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

***Type of Sampling:** In Work Area (IWA) Outside Work Area (OWA) Clearance (C) Soil (S) Air (A) Bulk (B) Neg. Air Exhaust (NAE) Dust Wipe (DW) Waste Characterization (WC)

Sample # Prefix: 87593

Lab Number	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	Flow$_{int}$ (LPM)	Flow$_{final}$ (LPM)	Flow$_{avg}$ (LPM)	Volume/ Area	Analyses Requested
	B-01	B	House of Ukraine/ Plaster Wall W.Side Main Room	Bulk							PLM
	B-02	B	House of Ukraine/ Plaster Wall W.Side Restroom	Bulk							PLM
	B-03	B	House of Ukraine/ Plaster Wall E.Side Entrance	Bulk							PLM
	B-04	B	House of Ukraine/ Stucco Side A Wall	Bulk							PLM
	B-05	B	House of Ukraine/ Stucco Side B Wall	Bulk							PLM
	B-06	B	House of Ukraine/ Stucco Side C Wall	Bulk							PLM

NOTES: Stop Positive for B-01 - B-03
" " " B-04 - B-06

Relinquished by (Print name): Adrian Urbina	Relinquished by (Print name):
Signature:	Signature:
Date/Time: 4/12/2024	Date/Time:
Received by (Print name): Kevin Walls	Received by (Print name):
Signature:	Signature:
Date/Time: 4/18/24 10:00am	Date/Time:

OrderID: 432403596

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EMSL Order:	432403590
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/22/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-01-Drywall *432403590-0001*	HOUSE OF HUNGARY / DW WALL W. SIDE KITCHEN	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
86583-B-01-Joint Compound *432403590-0001A*	HOUSE OF HUNGARY / DW WALL W. SIDE KITCHEN	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-01-Texture *432403590-0001B*	HOUSE OF HUNGARY / DW WALL W. SIDE KITCHEN	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02-Drywall *432403590-0002* *No texture present in sample.*	HOUSE OF HUNGARY / DW WALL W. SIDE STORAGE	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
86583-B-02-Joint Compound *432403590-0002A*	HOUSE OF HUNGARY / DW WALL W. SIDE STORAGE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Drywall *432403590-0003*	HOUSE OF HUNGARY / DW WALL W. SIDE RESTROOM	Beige Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
86583-B-03-Joint Compound *432403590-0003A*	HOUSE OF HUNGARY / DW WALL W. SIDE RESTROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04-Finish Coat *432403590-0004*	HOUSE OF HUNGARY / EXTERIOR STUCCO WALL SIDE A	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04-Base Coat *432403590-0004A*	HOUSE OF HUNGARY / EXTERIOR STUCCO WALL SIDE A	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05-Finish Coat *432403590-0005*	HOUSE OF HUNGARY / EXTERIOR STUCCO WALL SIDE B	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05-Base Coat *432403590-0005A*	HOUSE OF HUNGARY / EXTERIOR STUCCO WALL SIDE B	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Finish Coat *432403590-0006*	HOUSE OF HUNGARY / EXTERIOR STUCCO WALL SIDE D	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/24/2024 18:51:02

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EMSL Order:	432403590
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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-06-Base Coat *432403590-0006A*	HOUSE OF HUNGARY / EXTERIOR STUCCO WALL SIDE D	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Gabriella Angulo-Quigley (6)

Lisa Roberts (7)

Riva Alger, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 04/24/2024 18:51:02

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP - Laboratory Submittal

4324035 90

The City of SAN DIEGO

Project # 40400086583 Sampled by: Adrian Urbina Sampled Date: 04/12/24 Page 1 of 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☒ OTHER: 2 week

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2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

***Type of Sampling:** In Work Area (IWA) Outside Work Area (OWA) Clearance (C) Soil (S)
Air (A) Bulk (B) Neg. Air Exhaust (NAE) Dust Wipe (DW) Waste Characterization (WC)

Sample # Prefix: 86583

Lab Number	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
	B-01	B	House of Hungary/ Drywall Wall W.Side Kitchen	Bulk							PLM
	B-02	B	House of Hungary/ Drywall Wall W.Side Storage	Bulk							PLM
	B-03	B	House of Hungary/ Drywall Wall W.Side Restroom	Bulk							PLM
	B-04	B	House of Hungary/ Exterior Stucco Wall Side A	Bulk							PLM
	B-05	B	House of Hungary/ Exterior Stucco Wall Side B	Bulk							PLM
	B-06	B	House of Hungary/ Exterior Stucco Wall Side D	Bulk							PLM

NOTES: Stop Positive for B-01 - B-03
" " " B-04 - B-06

Relinquished by (Print name): Adrian Urbina	Relinquished by (Print name):
Signature:	Signature:
Date/Time: 4/12/2024	Date/Time:
Received by (Print name): Nivin Wallis	Received by (Print name):
Signature:	Signature:
Date/Time: 4/18/24 10:00 am	Date/Time:

OrderID: 432403590

Page 1 Of 1

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EMSL Order:	432403597
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/27/2024 - 05/02/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-01 *432403597-0001*	HOUSE OF SWEDEN / PLASTER E. SIDE ENTRANCE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02 *432403597-0002*	HOUSE OF SWEDEN / PLASTER E. SIDE ENTRANCE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03 *432403597-0003*	HOUSE OF SWEDEN / PLASTER E. SIDE ENTRANCE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04-Drywall *432403597-0004*	HOUSE OF SWEDEN / DRYWALL WALL W. WALL ENTRANCE	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
86583-B-04-Joint Compound *432403597-0004A*	HOUSE OF SWEDEN / DRYWALL WALL W. WALL ENTRANCE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05-Drywall *432403597-0005*	HOUSE OF SWEDEN / DRYWALL WALL N. WALL ENTRANCE	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
86583-B-05-Joint Compound *432403597-0005A*	HOUSE OF SWEDEN / DRYWALL WALL N. WALL ENTRANCE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Drywall *432403597-0006*	HOUSE OF SWEDEN / DRYWALL WALL E. WALL MAIN ROOM	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
86583-B-06-Joint Compound *432403597-0006A*	HOUSE OF SWEDEN / DRYWALL WALL E. WALL MAIN ROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-07-Finish Coat *432403597-0007*	HOUSE OF SWEDEN / EXTERIOR OF STUCCO WALL SIDE A	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**<1% Chrysotile**
86583-B-07-Base Coat *432403597-0007A*	HOUSE OF SWEDEN / EXTERIOR OF STUCCO WALL SIDE A	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-08-Finish Coat *432403597-0008*	HOUSE OF SWEDEN / EXTERIOR OF STUCCO WALL SIDE B	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**<1% Chrysotile**

Initial report from: 05/02/2024 12:51:31

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EMSL Order:	432403597
Customer ID:	SAND52
Customer PO:	
Project ID:	

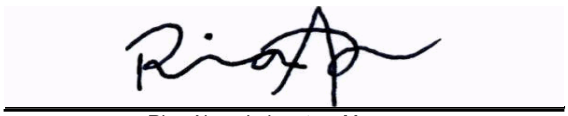
Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-08-Base Coat *432403597-0008A*	HOUSE OF SWEDEN / EXTERIOR OF STUCCO WALL SIDE B	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-09-Finish Coat *432403597-0009*	HOUSE OF SWEDEN / EXTERIOR OF STUCCO WALL SIDE B	Brown/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**<1% Chrysotile**
86583-B-09-Base Coat *432403597-0009A*	HOUSE OF SWEDEN / EXTERIOR OF STUCCO WALL SIDE B	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Eric Sun (10)

Peter Pham (5)



Riva Alger, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 05/02/2024 12:51:31

#432403597

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP – Laboratory Submittal

The City of SAN DIEGO

Project # 40400086583 Sampled by: Adrian Urbina Sampled Date: 04/12/24 Page 1 of 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☒ OTHER: 2 week

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2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

*Type of Sampling: In Work Area (IWA) Air (A) Bulk (B) | Outside Work Area (OWA) Neg. Air Exhaust (NAE) | Clearance (C) Dust Wipe (DW) | Soil (S) Waste Characterization (WC)

Lab Number	Sample # Prefix: 96583	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
		B-01	B	House of Sweden/ Plaster Wall E.Side Entrance	Bulk							PLM
		B-02	B	House of Sweden/ Plaster Wall E.Side Entrance	Bulk							PLM
		B-03	B	House of Sweden/ Plaster Wall E.Side Entrance	Bulk							PLM
		B-04	B	House of Sweden/ Drywall Wall W.Wall Entrance	Bulk							PLM
		B-05	B	House of Sweden/ Drywall Wall N.Wall Entrance	Bulk							PLM
		B-06	B	House of Sweden/ Drywall Wall E.Wall Main Room	Bulk							PLM
		B-07	B	House of Sweden/ Exterior Stucco Wall Side A	Bulk							PLM
		B-08	B	House of Sweden/ Exterior Stucco Wall Side B	Bulk							PLM
		B-09	B	House of Sweden/ Exterior Stucco Wall Side B	Bulk							PLM

NOTES: Stop Positive B-01 - B-03
" " B-04 - B-06
" " B-07 - B-09

Relinquished by (Print name): Adrian Urbina Signature: Date/Time: 4/12/2024	Relinquished by (Print name): Signature: Date/Time:
Received by (Print name): Nevin Wallis Signature: Date/Time: 4/18/24 10:00am	Received by (Print name): Signature: Date/Time:

Page 1 Of 1

OrderID: 432403597

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111

Tel/Fax: (858) 499-1303 / (858) 499-1304

http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403598
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/26/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-01-Skim Coat *432403598-0001*	HOUSE OF DENMARK / PLASTER WALL N. SIDE ENTRANCE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-01-Plaster *432403598-0001A*	HOUSE OF DENMARK / PLASTER WALL N. SIDE ENTRANCE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02-Skim Coat *432403598-0002*	HOUSE OF DENMARK / PLASTER WALL W. SIDE ENTRANCE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02-Plaster *432403598-0002A*	HOUSE OF DENMARK / PLASTER WALL W. SIDE ENTRANCE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Skim Coat *432403598-0003*	HOUSE OF DENMARK / PLASTER WALL E. SIDE MAIN ROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Plaster *432403598-0003A*	HOUSE OF DENMARK / PLASTER WALL E. SIDE MAIN ROOM	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04-Finish Coat *432403598-0004*	HOUSE OF DENMARK / EXTERIOR STUCCO WALL SIDE A	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**<1% Chrysotile**
86583-B-04-Base Coat *432403598-0004A*	HOUSE OF DENMARK / EXTERIOR STUCCO WALL SIDE A	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05-Finish Coat *432403598-0005*	HOUSE OF DENMARK / EXTERIOR STUCCO WALL SIDE A	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**<1% Chrysotile**
86583-B-05-Base Coat *432403598-0005A*	HOUSE OF DENMARK / EXTERIOR STUCCO WALL SIDE A	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Finish Coat *432403598-0006*	HOUSE OF DENMARK / EXTERIOR STUCCO WALL SIDE C	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**<1% Chrysotile**
86583-B-06-Base Coat *432403598-0006A*	HOUSE OF DENMARK / EXTERIOR STUCCO WALL SIDE C	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/29/2024 14:22:08

EMSL Analytical, Inc.

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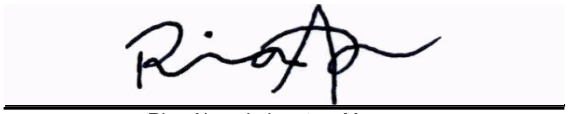
EMSL Order:	432403598
Customer ID:	SAND52
Customer PO:	
Project ID:	

Analyst(s)

Emilia Dziedzic (8)

Eric Sun (4)



Riva Alger, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 04/29/2024 14:22:08

SD Environmental Services

#432403598

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP - Laboratory Submittal

The City of SAN DIEGO

Project # 40400086583 Sampled by: Adrian Urbina Sampled Date: 04/12/24 Page 1 of 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☒ OTHER: 2week

The receiving Laboratory is required to complete the following:

1. All Invoices are to be sent to: ALMP@Sandiego.gov or City of San Diego, ESD, ALMP, 9601 Ridgehaven Court, Suite 310 San Diego, CA 92123
2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

*Type of Sampling: In Work Area (IWA) Air (A) Bulk (B) | Outside Work Area (OWA) Neg. Air Exhaust (NAE) | Clearance (C) Dust Wipe (DW) | Soil (S) Waste Characterization (WC)

Sample # Prefix: 36503

Lab Number	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
	B-01	B	House of Denmark/ Plaster Wall N.Side Entrance	Bulk							PLM
	B-02	B	House of Denmark/ Plaster Wall W.Side Kitchen	Bulk							PLM
	B-03	B	House of Denmark/ Plaster Wall E.Side Main Room	Bulk							PLM
	B-04	B	House of Denmark/ Exterior Stucco Wall Side A	Bulk							PLM
	B-05	B	House of Denmark/ Exterior Stucco Wall Side A	Bulk							PLM
	B-06	B	House of Denmark/ Exterior Stucco Wall Side C	Bulk							PLM

NOTES: Positive Stop B-01 - B-03
" " B-04 - B-06

Relinquished by (Print name): Adrian Urbina	Relinquished by (Print name):
Signature:	Signature:
Date/Time: 4/12/2024	Date/Time:
Received by (Print name): Nevin Wallis	Received by (Print name):
Signature:	Signature:
Date/Time: 4/18/24 10:00am	Date/Time:

OrderID: 432403598

EMSL Analytical, Inc.

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EMSL Order:	432403599
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/23/2024 - 04/26/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-01-Skim Coat *432403599-0001*	HOUSE OF SCOTLAND / PLASTER WALL E. SIDE BY STAIRS	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-01-Plaster *432403599-0001A*	HOUSE OF SCOTLAND / PLASTER WALL E. SIDE BY STAIRS	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02-Skim Coat *432403599-0002*	HOUSE OF SCOTLAND / PLASTER WALL E. SIDE ENTRANCE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02-Plaster *432403599-0002A*	HOUSE OF SCOTLAND / PLASTER WALL E. SIDE ENTRANCE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Skim Coat *432403599-0003*	HOUSE OF SCOTLAND / PLASTER WALL E. SIDE RESTROOM	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Plaster *432403599-0003A*	HOUSE OF SCOTLAND / PLASTER WALL E. SIDE RESTROOM	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04 *432403599-0004*	HOUSE OF SCOTLAND / STUCCO SIDE A WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05 *432403599-0005*	HOUSE OF SCOTLAND / STUCCO SIDE B WALL	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06 *432403599-0006*	HOUSE OF SCOTLAND / STUCCO SIDE D WALL	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/29/2024 14:05:32

EMSL Analytical, Inc.

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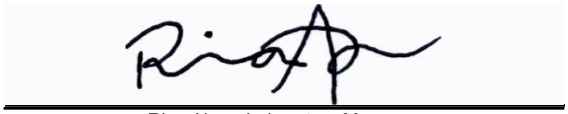
EMSL Order:	432403599
Customer ID:	SAND52
Customer PO:	
Project ID:	

Analyst(s)

Eric Sun (6)

Lisa Roberts (3)



Riva Alger, Laboratory Manager
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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 04/29/2024 14:05:32

SD Environmental Services

#432403599

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP – Laboratory Submittal

The City of SAN DIEGO

Project # 40400086583 Sampled by: Adrian Urbina Sampled Date: 04/12/24 Page 1 of 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☒ OTHER: 2 Week

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2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

*Type of Sampling: In Work Area (IWA) Air (A) Bulk (B) Outside Work Area (OWA) Neg. Air Exhaust (NAE) Clearance (C) Dust Wipe (DW) Soil (S) Waste Characterization (WC)

Sample # Prefix: 8583

Lab Number	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
	B-01	B	House of Scotland/ Plaster Wall E.Side by Stairs	Bulk							PLM
	B-02	B	House of Scotland/ Plaster Wall E.Side Entrance	Bulk							PLM
	B-03	B	House of Scotland/ Plaster Wall E.Side Restroom	Bulk							PLM
	B-04	B	House of Scotland/ Stucco Side A Wall	Bulk							PLM
	B-05	B	House of Scotland/ Stucco Side B Wall	Bulk							PLM
	B-06	B	House of Scotland/ Stucco Side D Wall	Bulk							PLM

NOTES: Stop Positive for B-01 - B-03
" " " B-04 - B-06

Relinquished by (Print name): Adrian Urbina	Relinquished by (Print name):
Signature:	Signature:
Date/Time: 4/12/2024	Date/Time:
Received by (Print name): Nevin Wallis	Received by (Print name):
Signature:	Signature:
Date/Time: 4/18/24 10:00 am	Date/Time:

Page 1 Of 1

OrderID: 432403599

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111
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http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403600
Customer ID:	SAND52
Customer PO:	
Project ID:	

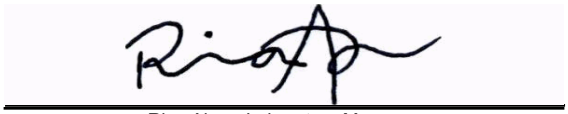
Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/26/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-01 *432403600-0001*	HOUSE OF CHINA / PLASTER WALL W. SIDE ENTRANCE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02 *432403600-0002*	HOUSE OF CHINA / PLASTER WALL N. SIDE ENTRANCE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Skim Coat *432403600-0003*	HOUSE OF CHINA / PLASTER WALL N. SIDE ENTRANCE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Plaster *432403600-0003A*	HOUSE OF CHINA / PLASTER WALL N. SIDE ENTRANCE	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04 *432403600-0004*	HOUSE OF CHINA / EXTERIOR STUCCO WALL SIDE A	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05 *432403600-0005*	HOUSE OF CHINA / EXTERIOR STUCCO WALL SIDE B	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06 *432403600-0006*	HOUSE OF CHINA / EXTERIOR STUCCO WALL SIDE D	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Eric Sun (4)
Joseph Gutierrez (3)



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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 04/29/2024 14:28:54

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP – Laboratory Submittal

#4324036600

The City of SAN DIEGO

Project # 40400086583 Sampled by: Adrian Urbina Sampled Date: 04/12/24 Page 1 of 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☒ OTHER: 2 Week

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2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

*Type of Sampling: In Work Area (IWA) Air (A) Bulk (B) | Outside Work Area (OWA) Neg. Air Exhaust (NAE) | Clearance (C) Dust Wipe (DW) | Soil (S) Waste Characterization (WC)

Sample # Prefix: 86583

Lab Number	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
	B-01	B	House of China/ Plaster Wall W.Side Entrance	Bulk							PLM
	B-02	B	House of China/ Plaster Wall N.Side Entrance	Bulk							PLM
	B-03	B	House of China/ Plaster Wall N.Side Entrance	Bulk							PLM
	B-04	B	House of China/ Exterior Stucco Wall Side A	Bulk							PLM
	B-05	B	House of China/ Exterior Stucco Wall Side B	Bulk							PLM
	B-06	B	House of China/ Exterior Stucco Wall Side D	Bulk							PLM

NOTES: Positive Stop B-01 - B-03
" " B-04 - B-06

Relinquished by (Print name): Adrian Urbina	Relinquished by (Print name):
Signature:	Signature:
Date/Time: 4/12/2024	Date/Time:
Received by (Print name): Nevin Wallis	Received by (Print name):
Signature:	Signature:
Date/Time: 4/18/24 10:00am	Date/Time:

Page 1 Of 1

OrderID: 432403600

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EMSL Order:	432403601
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Adrian Urbina	**Phone:**	(619) 573-7873
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 10:00 AM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/26/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-01 *432403601-0001*	HOUSE OF NORWAY / PLASTER WALL W. SIDE ENTRANCE	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02 *432403601-0002*	HOUSE OF NORWAY / PLASTER WALL S. SIDE ENTRANCE	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03 *432403601-0003*	HOUSE OF NORWAY / PLASTER WALL STORAGE CEILING	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04-Finish Coat 1 *432403601-0004*	HOUSE OF NORWAY / EXTERIOR STUCCO WALL SIDE A	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04-Finish Coat 2 *432403601-0004A*	HOUSE OF NORWAY / EXTERIOR STUCCO WALL SIDE A	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04-Base Coat *432403601-0004B*	HOUSE OF NORWAY / EXTERIOR STUCCO WALL SIDE A	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05-Finish Coat 1 *432403601-0005*	HOUSE OF NORWAY / EXTERIOR STUCCO WALL SIDE B	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05-Finish Coat 2 *432403601-0005A*	HOUSE OF NORWAY / EXTERIOR STUCCO WALL SIDE B	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05-Base Coat *432403601-0005B*	HOUSE OF NORWAY / EXTERIOR STUCCO WALL SIDE B	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Finish Coat 1 *432403601-0006*	HOUSE OF NORWAY / EXTERIOR STUCCO WALL SIDE C	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Finish Coat 2 *432403601-0006A*	HOUSE OF NORWAY / EXTERIOR STUCCO WALL SIDE C	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Base Coat *432403601-0006B*	HOUSE OF NORWAY / EXTERIOR STUCCO WALL SIDE C	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/29/2024 14:31:10

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111

Tel/Fax: (858) 499-1303 / (858) 499-1304

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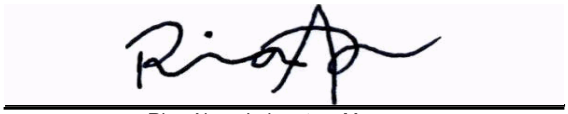
EMSL Order:	432403601
Customer ID:	SAND52
Customer PO:	
Project ID:	

Analyst(s)

Emilia Dziedzic (4)

Lisa Roberts (8)



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or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 04/29/2024 14:31:10

#432403601

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP - Laboratory Submittal

The City of SAN DIEGO

Project # 40400086583 Sampled by: Adrian Urbina Sampled Date: 04/12/24 Page 1 of 1

Laboratory:	Turnaround Time:
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☒ OTHER: 2 week

The receiving Laboratory is required to complete the following:

1. All Invoices are to be sent to: ALMP@Sandiego.gov or City of San Diego, ESD, ALMP, 9601 Ridgehaven Court, Suite 310 San Diego, CA 92123
2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: aurbina @sandiego.gov

*Type of Sampling: In Work Area (IWA) Air (A) Bulk (B) Outside Work Area (OWA) Neg. Air Exhaust (NAE) Clearance (C) Dust Wipe (DW) Soil (S) Waste Characterization (WC)

Sample # Prefix: CISHQ

Lab Number	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
	B-01	B	House of Norway/ Plaster Wall W.Side Entrance	Bulk							PLM
	B-02	B	House of Norway/ Plaster Wall S.Side Kitchen	Bulk							PLM
	B-03	B	House of Norway/ Plaster Wall Storage Ceiling	Bulk							PLM
	B-04	B	House of Norway/ Exterior Stucco Wall Side A	Bulk							PLM
	B-05	B	House of Norway/ Exterior Stucco Wall Side B	Bulk							PLM
	B-06	B	House of Norway/ Exterior Stucco Wall Side C	Bulk							PLM

NOTES: Positive Stop B-01 - B-03
" " B-04 - B-06

Relinquished by (Print name): ~~Adrian Urbina~~	Relinquished by (Print name):
Signature:	Signature:
Date/Time: 4/12/2024	Date/Time:
Received by (Print name): Nevin Wallis	Received by (Print name):
Signature:	Signature:
Date/Time: 4/18/24 10:00 am	Date/Time:

Page 1 Of 1

OrderID: 432403601

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7725 Convoy Court San Diego, CA 92111
Tel/Fax: (858) 499-1303 / (858) 499-1304
http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403602
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Gil Cortinas	**Phone:**	(858) 573-1264
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 4:30 PM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	05/01/2024 - 05/02/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
B-01 *432403602-0001* *Only joint compound present in sample.*	HOUSE OF ITALY / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-02-Drywall *432403602-0002*	HOUSE OF ITALY / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
B-02-Joint Compound *432403602-0002A*	HOUSE OF ITALY / INTERIOR WALL	White Non-Fibrous Homogeneous		98% Non-fibrous (Other)	**2% Chrysotile**
B-03-Drywall *432403602-0003*	HOUSE OF ITALY / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
B-03-Joint Compound *432403602-0003A*	HOUSE OF ITALY / INTERIOR WALL				**Positive Stop (Not Analyzed)**
B-04-Drywall *432403602-0004*	HALL OF NATIONS / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
B-04-Joint Compound *432403602-0004A*	HALL OF NATIONS / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-05-Drywall *432403602-0005*	HALL OF NATIONS / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
B-05-Joint Compound *432403602-0005A*	HALL OF NATIONS / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-06-Drywall *432403602-0006*	HALL OF NATIONS / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
B-06-Joint Compound *432403602-0006A*	HALL OF NATIONS / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-07-Finish Coat *432403602-0007*	HALL OF NATIONS & HOUSE OF ITALY / EXT. STUCCO	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-07-Base Coat *432403602-0007A*	HALL OF NATIONS & HOUSE OF ITALY / EXT. STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-08-Finish Coat *432403602-0008*	HALL OF NATIONS & HOUSE OF ITALY / EXT. STUCCO	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-08-Base Coat *432403602-0008A*	HALL OF NATIONS & HOUSE OF ITALY / EXT. STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-09-Finish Coat *432403602-0009*	HALL OF NATIONS & HOUSE OF ITALY / EXT. STUCCO	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/02/2024 19:39:58

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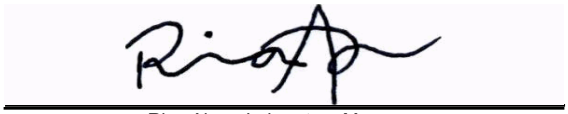
EMSL Order:	432403602
Customer ID:	SAND52
Customer PO:	
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
B-09-Base Coat *432403602-0009A*	HALL OF NATIONS & HOUSE OF ITALY / EXT. STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-10-Finish Coat *432403602-0010*	HALL OF NATIONS & HOUSE OF ITALY / EXT. STUCCO	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-10-Base Coat *432403602-0010A*	HALL OF NATIONS & HOUSE OF ITALY / EXT. STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Eric Sun (9)
Gabriella Angulo-Quigley (9)



Riva Alger, Laboratory Manager
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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 05/02/2024 19:39:58

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP - Laboratory Submittal

#4324036O2

The City of SAN DIEGO

Project # 40400086583 **Sampled by:** Gil Cortinas **Sampled Date:** 04/15/24 **Page** 1 **of** 1

Laboratory:	**Turnaround Time:**
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☑ OTHER: 2 Week

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2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: gcortinas @sandiego.gov

***Type of Sampling:** In Work Area (IWA) Outside Work Area (OWA) Clearance (C) Soil (S) Air (A) Bulk (B) Neg. Air Exhaust (NAE) Dust Wipe (DW) Waste Characterization (WC)

Lab Number	Sample # Prefix:	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	Flow$_{int}$ (LPM)	Flow$_{final}$ (LPM)	Flow$_{avg}$ (LPM)	Volume/ Area	Analyses Requested
		B-01	B	House of Italy / Interior Wall	Bulk							PLM
		B-02	B	House of Italy / Interior Wall	Bulk							PLM
		B-03	B	House of Italy / Interior Wall	Bulk							PLM
		B-04	B	Hall of Nations / Interior Wall	Bulk							PLM
		B-05	B	Hall of Nations / Interior Wall	Bulk							PLM
		B-06	B	Hall of Nations / Interior Wall	Bulk							PLM
		B-07	B	Hall of Nations & House of Italy / Ext. Stucco	Bulk							PLM
		B-08	B	Hall of Nations & House of Italy / Ext. Stucco	Bulk							PLM
		B-09	B	Hall of Nations & House of Italy / Ext. Stucco	Bulk							PLM
		B-10	B	Hall of Nations & House of Italy / Ext. Stucco	Bulk							PLM

NOTES: Stop at first positive or >1% reading for samples B-01 thru B-03; B-04 thru B-06; and B-7 thru B-10

Relinquished by (Print name): Gil Cortinas Signature: [signature] Date/Time: 4/18/2024	Relinquished by (Print name): Signature: Date/Time:
Received by (Print name): Barrett Smith Signature: [signature] Date/Time: 4/18/24 4:30 PM	Received by (Print name): Signature: Date/Time:

Page 1 Of 1

OrderID: 432403602

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EMSL Order:	432403603
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Gil Cortinas	**Phone:**	(858) 573-1264
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 4:30 PM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/26/2024 - 04/30/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
B-01	UNITED NATIONS GS / INTERIOR	Tan/White Non-Fibrous		100% Non-fibrous (Other)	None Detected
432403603-0001	WALL	Heterogeneous			
Result includes a small amount of inseparable skim coat with the plaster.					
B-02-Skim Coat	UNITED NATIONS GS / INTERIOR	Tan Non-Fibrous		100% Non-fibrous (Other)	None Detected
432403603-0002	WALL	Homogeneous			
B-02-Plaster	UNITED NATIONS GS / INTERIOR	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
432403603-0002A	WALL	Heterogeneous			
Result includes a small amount of inseparable skim coat.					
B-03-Skim Coat	UNITED NATIONS GS / INTERIOR	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
432403603-0003	WALL	Homogeneous			
B-03-Plaster	UNITED NATIONS GS / INTERIOR	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
432403603-0003A	WALL	Homogeneous			
B-04-Finish Coat	UNITED NATIONS GS / EXTERIOR	Gray Non-Fibrous	2% Synthetic	98% Non-fibrous (Other)	None Detected
432403603-0004	STUCCO	Heterogeneous			
Result includes a small amount of inseparable attached base coat.					
B-04-Base Coat	UNITED NATIONS GS / EXTERIOR	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
432403603-0004A	STUCCO	Homogeneous			
B-05	UNITED NATIONS GS / EXTERIOR	White Non-Fibrous	<1% Synthetic	100% Non-fibrous (Other)	None Detected
432403603-0005	STUCCO	Homogeneous			
B-06-Finish Coat	UNITED NATIONS GS / EXTERIOR	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
432403603-0006	STUCCO	Homogeneous			
B-06-Base Coat	UNITED NATIONS GS / EXTERIOR	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
432403603-0006A	STUCCO	Homogeneous			
B-07-Finish Coat	UNITED NATIONS GS / EXTERIOR	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
432403603-0007	STUCCO	Homogeneous			
B-07-Base Coat	UNITED NATIONS GS / EXTERIOR	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
432403603-0007A	STUCCO	Homogeneous			

Initial report from: 04/30/2024 15:54:12

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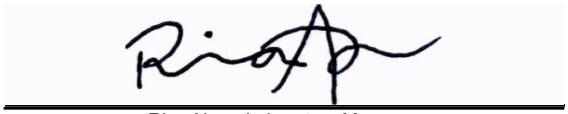
EMSL Order:	432403603
Customer ID:	SAND52
Customer PO:	
Project ID:	

Analyst(s)

Eric Sun (6)

Lisa Roberts (6)



Riva Alger, Laboratory Manager
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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 04/30/2024 15:54:12

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP – Laboratory Submittal

#4324036603

The City of SAN DIEGO

Project # 40400086583 **Sampled by:** Gil Cortinas **Sampled Date:** 04/16/24 **Page** 1 **of** 1

Laboratory:	**Turnaround Time:**
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☑ OTHER: 2 Week

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3. Email report to: gcortinas @sandiego.gov

***Type of Sampling:** In Work Area (IWA) Outside Work Area (OWA) Clearance (C) Soil (S) Air (A) Bulk (B) Neg. Air Exhaust (NAE) Dust Wipe (DW) Waste Characterization (WC)

Lab Number	Sample # Prefix:	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	Flow$_{int}$ (LPM)	Flow$_{final}$ (LPM)	Flow$_{avg}$ (LPM)	Volume/ Area	Analyses Requested
		B-01	B	United Nations GS/ Interior Wall	Bulk							PLM
		B-02	B	United Nations GS / Interior Wall	Bulk							PLM
		B-03	B	United Nations GS / Interior Wall	Bulk							PLM
		B-04	B	United Nations GS/ Exterior Stucco	Bulk							PLM
		B-05	B	United Nations GS / Exterior Stucco	Bulk							PLM
		B-06	B	United Nations GS / Exterior Stucco	Bulk							PLM
		B-07	B	United Nations GS / Exterior Stucco	Bulk							PLM

NOTES: Stop at first positive or >1% reading for samples B-01 thru B-03; and B-04 thru B-07

Relinquished by (Print name): Gil Cortinas Signature: Date/Time: 4/18/2024	Relinquished by (Print name): Signature: Date/Time:
Received by (Print name): Barrett Smith Signature: Date/Time: 4/18/24 4:30 PM	Received by (Print name): Signature: Date/Time:

Page 1 Of 1

OrderID: 432403603

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EMSL Order:	432403611
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Gil Cortinas	**Phone:**	(858) 573-1264
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 4:30 PM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	04/30/2024 - 05/01/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-01-Drywall *432403611-0001*	HOUSE OF SPAIN / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
86583-B-01-Joint Compound *432403611-0001A*	HOUSE OF SPAIN / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02 *432403611-0002* *Only joint compound present.*	HOUSE OF SPAIN / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Drywall *432403611-0003*	HOUSE OF SPAIN / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
86583-B-03-Joint Compound *432403611-0003A*	HOUSE OF SPAIN / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04 *432403611-0004*	HOUSE OF SPAIN / EXTERIOR STUCCO	Peach Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05-Finish Coat *432403611-0005*	HOUSE OF SPAIN / EXTERIOR STUCCO	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05-Base Coat *432403611-0005A*	HOUSE OF SPAIN / EXTERIOR STUCCO	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Finish Coat *432403611-0006*	HOUSE OF SPAIN / EXTERIOR STUCCO	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Base Coat *432403611-0006A*	HOUSE OF SPAIN / EXTERIOR STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-07 *432403611-0007*	HOUSE OF SPAIN / EXTERIOR STUCCO	Pink/Peach Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/01/2024 16:54:59

EMSL Analytical, Inc.

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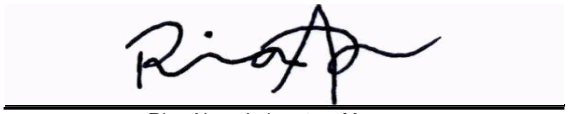
EMSL Order:	432403611
Customer ID:	SAND52
Customer PO:	
Project ID:	

Analyst(s)

Eric Sun (5)

Lisa Roberts (6)



Riva Alger, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 05/01/2024 16:54:59

4324036111

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP - Laboratory Submittal

The City of SAN DIEGO

Project # 40400086583 **Sampled by:** Gil Cortinas **Sampled Date:** 04/16/24 **Page** 1 **of** 1

Laboratory:	**Turnaround Time:**
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☑ OTHER: 2 Week

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3. Email report to: gcortinas @sandiego.gov

***Type of Sampling:** In Work Area (IWA) Air (A) Bulk (B) Outside Work Area (OWA) Neg. Air Exhaust (NAE) Clearance (C) Dust Wipe (DW) Soil (S) Waste Characterization (WC)

Lab Number	Sample # Prefix:	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
		B-01	B	House of Spain / Interior Wall	Bulk							PLM
		B-02	B	House of Spain / Interior Wall	Bulk							PLM
		B-03	B	House of Spain / Interior Wall	Bulk							PLM
		B-04	B	House of Spain / Exterior Stucco	Bulk							PLM
		B-05	B	House of Spain / Exterior Stucco	Bulk							PLM
		B-06	B	House of Spain / Exterior Stucco	Bulk							PLM
		B-07	B	House of Spain / Exterior Stucco	Bulk							PLM

NOTES: Stop at first positive or >1% reading for samples B-01 thru B-03; and B-04 thru B-07

Relinquished by (Print name): Gil Cortinas Signature: Date/Time: 4/18/2024	Relinquished by (Print name): Signature: Date/Time:
Received by (Print name): Barrett Smith Signature: Date/Time: 4/18/24 4:30 PM	Received by (Print name): Signature: Date/Time:

OrderID: 432403611

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111
Tel/Fax: (858) 499-1303 / (858) 499-1304
http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403612
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Gil Cortinas	**Phone:**	(858) 573-1264
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 4:30 PM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	05/01/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-01-Drywall *432403612-0001*	HOUSE OF PHILIPPINES / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
86583-B-01-Joint Compound *432403612-0001A*	HOUSE OF PHILIPPINES / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02-Drywall *432403612-0002*	HOUSE OF PHILIPPINES / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
86583-B-02-Joint Compound *432403612-0002A*	HOUSE OF PHILIPPINES / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03-Drywall *432403612-0003*	HOUSE OF PHILIPPINES / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
86583-B-03-Joint Compound *432403612-0003A*	HOUSE OF PHILIPPINES / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04 *432403612-0004*	HOUSE OF PHILIPPINES / EXTERIOR STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05 *432403612-0005*	HOUSE OF PHILIPPINES / EXTERIOR STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06 *432403612-0006*	HOUSE OF PHILIPPINES / EXTERIOR STUCCO	Gray/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-07 *432403612-0007*	HOUSE OF PHILIPPINES / EXTERIOR STUCCO	Gray/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Emilia Dziedzic (4)
Lisa Roberts (6)

Riva Alger, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 “Interim Method”) but augmented with procedures outlined in the 1993 (”final”) version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 05/02/2024 12:32:31

432403612

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP - Laboratory Submittal

The City of SAN DIEGO

Project # 40400086583 **Sampled by:** Gil Cortinas **Sampled Date:** 04/16/24 **Page** 1 **of** 1

Laboratory:	**Turnaround Time:**
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☑ OTHER: 2 Week

The receiving Laboratory is required to complete the following:

1. All Invoices are to be sent to: ALMP@Sandiego.gov or City of San Diego, ESD, ALMP, 9601 Ridgehaven Court, Suite 310 San Diego, CA 92123
2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: gcortinas @sandiego.gov

***Type of Sampling:** In Work Area (IWA) Outside Work Area (OWA) Clearance (C) Soil (S) Air (A) Bulk (B) Neg. Air Exhaust (NAE) Dust Wipe (DW) Waste Characterization (WC)

Lab Number	Sample # Prefix:	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	Flow$_{int}$ (LPM)	Flow$_{final}$ (LPM)	Flow$_{avg}$ (LPM)	Volume/ Area	Analyses Requested
		B-01	B	House of Philippines / Interior Wall	Bulk							PLM
		B-02	B	House of Philippines / Interior Wall	Bulk							PLM
		B-03	B	House of Philippines / Interior Wall	Bulk							PLM
		B-04	B	House of Philippines / Exterior Stucco	Bulk							PLM
		B-05	B	House of Philippines / Exterior Stucco	Bulk							PLM
		B-06	B	House of Philippines / Exterior Stucco	Bulk							PLM
		B-07	B	House of Philippines / Exterior Stucco	Bulk							PLM

NOTES: Stop at first positive or >1% reading for samples B-01 thru B-03; and B-04 thru B-07

Relinquished by (Print name): Gil Cortinas Signature: Date/Time: 4/18/2024	Relinquished by (Print name): Signature: Date/Time:
Received by (Print name): Barrett Smith Signature: Date/Time: 4/18/24 4:30 PM	Received by (Print name): Signature: Date/Time:

OrderID: 432403612

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111
Tel/Fax: (858) 499-1303 / (858) 499-1304
http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403613
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Gil Cortinas	**Phone:**	(858) 573-1264
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/18/2024 4:30 PM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	05/01/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B-01-Drywall *432403613-0001*	HOUSE OF PUERTO RICO / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
86583-B-01-Joint Compound *432403613-0001A*	HOUSE OF PUERTO RICO / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-02-Drywall *432403613-0002*	HOUSE OF PUERTO RICO / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
86583-B-02-Joint Compound *432403613-0002A*	HOUSE OF PUERTO RICO / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-03 *432403613-0003*	HOUSE OF PUERTO RICO / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04-Finish Coat *432403613-0004*	HOUSE OF PUERTO RICO / EXTERIOR STUCCO	Peach Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-04-Base Coat *432403613-0004A*	HOUSE OF PUERTO RICO / EXTERIOR STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-05 *432403613-0005*	HOUSE OF PUERTO RICO / EXTERIOR STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Finish Coat *432403613-0006*	HOUSE OF PUERTO RICO / EXTERIOR STUCCO	Peach Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-06-Base Coat *432403613-0006A*	HOUSE OF PUERTO RICO / EXTERIOR STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-07-Finish Coat *432403613-0007*	HOUSE OF PUERTO RICO / EXTERIOR STUCCO	Peach Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B-07-Base Coat *432403613-0007A*	HOUSE OF PUERTO RICO / EXTERIOR STUCCO	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/02/2024 12:35:36

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111

Tel/Fax: (858) 499-1303 / (858) 499-1304

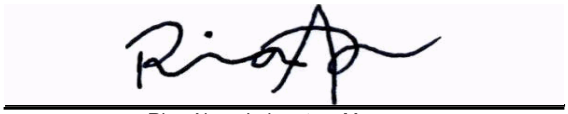
http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403613
Customer ID:	SAND52
Customer PO:	
Project ID:	

Analyst(s)

Eric Sun (7)

Lisa Roberts (5)



Riva Alger, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 05/02/2024 12:35:36

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP - Laboratory Submittal

4324036 13

The City of SAN DIEGO

Project # 40400086583 **Sampled by:** Gil Cortinas **Sampled Date:** 04/16/24 **Page** 1 **of** 1

Laboratory:	**Turnaround Time:**
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☑ OTHER: 2 Week

The receiving Laboratory is required to complete the following:

1. All Invoices are to be sent to: ALMP@Sandiego.gov or City of San Diego, ESD, ALMP, 9601 Ridgehaven Court, Suite 310 San Diego, CA 92123
2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: gcortinas @sandiego.gov

***Type of Sampling:** In Work Area (IWA) Outside Work Area (OWA) Clearance (C) Soil (S) Air (A) Bulk (B) Neg. Air Exhaust (NAE) Dust Wipe (DW) Waste Characterization (WC)

Lab Number	Sample # Prefix:	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	Flow$_{int}$ (LPM)	Flow$_{final}$ (LPM)	Flow$_{avg}$ (LPM)	Volume/ Area	Analyses Requested
		B-01	B	House of Puerto Rico / Interior Wall	Bulk							PLM
		B-02	B	House of Puerto Rico / Interior Wall	Bulk							PLM
		B-03	B	House of Puerto Rico / Interior Wall	Bulk							PLM
		B-04	B	House of Puerto Rico / Exterior Stucco	Bulk							PLM
		B-05	B	House of Puerto Rico / Exterior Stucco	Bulk							PLM
		B-06	B	House of Puerto Rico / Exterior Stucco	Bulk							PLM
		B-07	B	House of Puerto Rico / Exterior Stucco	Bulk							PLM

NOTES: Stop at first positive or >1% reading for samples B-01 thru B-03; and B-04 thru B-07

Relinquished by (Print name): Gil Cortinas Signature: Date/Time: 4/18/2024	Relinquished by (Print name): Signature: Date/Time:
Received by (Print name): Barrett Smith Signature: Date/Time: 4/18/24 4:30PM	Received by (Print name): Signature: Date/Time:

Page 1 Of 1

OrderID: 432403613

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7725 Convoy Court San Diego, CA 92111
Tel/Fax: (858) 499-1303 / (858) 499-1304
http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403709
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Gil Cortinas	**Phone:**	(858) 573-1264
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/22/2024 3:00 PM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	05/01/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
86583-B01-Drywall *432403709-0001*	HOUSE OF MEXICO / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
86583-B01-Joint Compound *432403709-0001A*	HOUSE OF MEXICO / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B01-Caulk *432403709-0001B*	HOUSE OF MEXICO / INTERIOR WALL	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B02-Drywall *432403709-0002*	HOUSE OF MEXICO / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
86583-B02-Joint Compound *432403709-0002A*	HOUSE OF MEXICO / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B03-Drywall *432403709-0003*	HOUSE OF MEXICO / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
86583-B03-Joint Compound *432403709-0003A*	HOUSE OF MEXICO / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B04-Finish Coat *432403709-0004* *Dark gray.*	HOUSE OF MEXICO / EXTERIOR STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B04-Base Coat *432403709-0004A* *Light gray.*	HOUSE OF MEXICO / EXTERIOR STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B05-Finish Coat *432403709-0005* *Dark gray.*	HOUSE OF MEXICO / EXTERIOR STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
86583-B05-Base Coat *432403709-0005A* *Light gray.*	HOUSE OF MEXICO / EXTERIOR STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/06/2024 17:00:27

EMSL Analytical, Inc.

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Tel/Fax: (858) 499-1303 / (858) 499-1304

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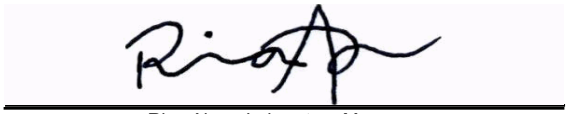
EMSL Order:	432403709
Customer ID:	SAND52
Customer PO:	
Project ID:	

Analyst(s)

Eric Sun (4)

Lisa Roberts (7)



Riva Alger, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 05/06/2024 17:00:27

Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP - Laboratory Submittal

The City of SAN DIEGO

Project # 40400086583 **Sampled by:** Gil Cortinas **Sampled Date:** 04/15/24 **Page** 1 **of** 1

Laboratory:	**Turnaround Time:**
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☑ OTHER: 2 Weeks

The receiving Laboratory is required to complete the following:

1. All Invoices are to be sent to: ALMP@Sandiego.gov or City of San Diego, ESD, ALMP, 9601 Ridgehaven Court, Suite 310 San Diego, CA 92123
2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: gcortinas @sandiego.gov

***Type of Sampling:** In Work Area (IWA) Outside Work Area (OWA) Clearance (C) Soil (S) Air (A) Bulk (B) Neg. Air Exhaust (NAE) Dust Wipe (DW) Waste Characterization (WC)

Lab Number	Sample # Prefix:	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	Flow$_{int}$ (LPM)	Flow$_{final}$ (LPM)	Flow$_{avg}$ (LPM)	Volume/ Area	Analyses Requested
		B-01	B	House of Mexico / Interior Wall	Bulk							PLM
		B-02	B	House of Mexico / Interior Wall	Bulk							PLM
		B-03	B	House of Mexico / Interior Wall	Bulk							PLM
		B-04	B	House of Mexico / Exterior Stucco	Bulk							PLM
		B-05	B	House of Mexico / Exterior Stucco	Bulk							PLM

NOTES: Stop at first positive or >1% reading for samples B-01 thru B-03; and B-04 thru B-05

Relinquished by (Print name): G. Cortinas Signature: Date/Time: 4/22/24	Relinquished by (Print name): Signature: Date/Time:
Received by (Print name): Barrett Smith Signature: Date/Time: 4/22/24 3:00PM	Received by (Print name): Signature: Date/Time:

OrderID: 432403709

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111
Tel/Fax: (858) 499-1303 / (858) 499-1304
http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403717
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Gil Cortinas	**Phone:**	(858) 573-1264
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/22/2024 3:00 PM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	05/01/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
B-01-Drywall *432403717-0001*	HOUSE OF PANAMA / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
B-01-Joint Compound *432403717-0001A*	HOUSE OF PANAMA / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-02-Drywall *432403717-0002*	HOUSE OF PANAMA / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
B-02-Joint Compound *432403717-0002A*	HOUSE OF PANAMA / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-03-Drywall *432403717-0003*	HOUSE OF PANAMA / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
B-03-Joint Compound *432403717-0003A*	HOUSE OF PANAMA / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-04 *432403717-0004*	HOUSE OF PANAMA / EXTERIOR STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-05-Finish Coat *432403717-0005*	HOUSE OF PANAMA / EXTERIOR STUCCO	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-05-Base Coat *432403717-0005A*	HOUSE OF PANAMA / EXTERIOR STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Alberto Guerrero (4)
Lisa Roberts (5)

Riva Alger, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 05/02/2024 12:34:07

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP - Laboratory Submittal

#432403717

The City of SAN DIEGO

Project # 40400086583 **Sampled by:** Gil Cortinas **Sampled Date:** 04/15/24 **Page** 1 **of** 1

Laboratory:	**Turnaround Time:**
EMSL	☐ 3 HOUR ☐ 24 HOUR ☐ 48 HOUR ☐ 72 HOUR ☐ 5 DAY ☑ OTHER: 2 Week

The receiving Laboratory is required to complete the following:

1. All Invoices are to be sent to: ALMP@Sandiego.gov or City of San Diego, ESD, ALMP, 9601 Ridgehaven Court, Suite 310 San Diego, CA 92123
2. Lab reports/invoices are to contain the Project Number listed above. Do not include Purchase Order Numbers on Invoices
3. Email report to: gcortinas @sandiego.gov

***Type of Sampling:** In Work Area (IWA) Air (A) Bulk (B) | Outside Work Area (OWA) Neg. Air Exhaust (NAE) | Clearance (C) Dust Wipe (DW) | Soil (S) Waste Characterization (WC)

Lab Number	Sample # Prefix:	Sample No.	*Type of Sampling	Location/Material	Media	Time On	Time Off	$Flow_{int}$ (LPM)	$Flow_{final}$ (LPM)	$Flow_{avg}$ (LPM)	Volume/ Area	Analyses Requested
		B-01	B	House of Panama / Interior Wall	Bulk							PLM
		B-02	B	House of Panama / Interior Wall	Bulk							PLM
		B-03	B	House of Panama / Interior Wall	Bulk							PLM
		B-04	B	House of Panama / Exterior Stucco	Bulk							PLM
		B-05	B	House of Panama / Exterior Stucco	Bulk							PLM

NOTES: Stop at first positive or >1% reading for samples B-01 thru B-03; and B-04 thru B-07

Relinquished by (Print name): Gil Cortinas Signature: Date/Time: 4/22/2024	Relinquished by (Print name): Signature: Date/Time:
Received by (Print name): Barrett Smith Signature: Date/Time: 4/22/24 3:00PM	Received by (Print name): Signature: Date/Time:

Page 1 Of 1

OrderID: 432403717

EMSL Analytical, Inc.

7725 Convoy Court San Diego, CA 92111
Tel/Fax: (858) 499-1303 / (858) 499-1304
http://www.EMSL.com / sandiegolab@emsl.com

EMSL Order:	432403719
Customer ID:	SAND52
Customer PO:	
Project ID:	

Attention:	Gil Cortinas	**Phone:**	(858) 573-1264
	City of San Diego	**Fax:**	(858) 492-5089
	Environmental Svcs Dept/ES & EP Division	**Received Date:**	04/22/2024 3:00 PM
	9601 Ridgehaven Court, Suite 310	**Analysis Date:**	05/01/2024
	San Diego, CA 92123	**Collected Date:**	
Project:	40400086583		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
B-01 *432403719-0001*	HOUSE OF IRAN / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-02 *432403719-0002*	HOUSE OF IRAN / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-03-Drywall *432403719-0003*	HOUSE OF IRAN / INTERIOR WALL	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
B-03-Joint Compound *432403719-0003A*	HOUSE OF IRAN / INTERIOR WALL	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-04 *432403719-0004*	HOUSE OF IRAN / EXTERIOR STUCCO	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-05 *432403719-0005*	HOUSE OF IRAN / EXTERIOR STUCCO	White/Peach Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-06-Finish Coat *432403719-0006*	HOUSE OF IRAN / EXTERIOR STUCCO	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-06-Base Coat *432403719-0006A*	HOUSE OF IRAN / EXTERIOR STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-07-Finish Coat *432403719-0007*	HOUSE OF IRAN / EXTERIOR STUCCO	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
B-07-Base Coat *432403719-0007A*	HOUSE OF IRAN / EXTERIOR STUCCO	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Eric Sun (6)
Lisa Roberts (4)

Riva Alger, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 “Interim Method”) but augmented with procedures outlined in the 1993 (”final”) version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713, HI L-09-03

Initial report from: 05/02/2024 12:36:44

SD Environmental Services

CITY OF SAN DIEGO
Environmental Services Department
ALMP/LSHHP - Laboratory Submittal

#432403719

The City of SAN DIEGO

Project # 40400086583 **Sampled by:** Gil Cortinas **Sampled Date:** 04/15/24 **Page** 1 **of** 1

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		B-05	B	House of Iran / Exterior Stucco	Bulk							PLM
		B-06	B	House of Iran / Exterior Stucco	Bulk							PLM
		B-07	B	House of Iran / Exterior Stucco	Bulk							PLM

NOTES: Stop at first positive or <1% reading for samples B-01 thru B-03 and B-4 thru B-07

Relinquished by (Print name): Gil Cortinas Signature: Date/Time: 4/22/2024	Relinquished by (Print name): Signature: Date/Time:
Received by (Print name): Barrett Smith Signature: Date/Time: 4/22/24 3:00pm	Received by (Print name): Signature: Date/Time:

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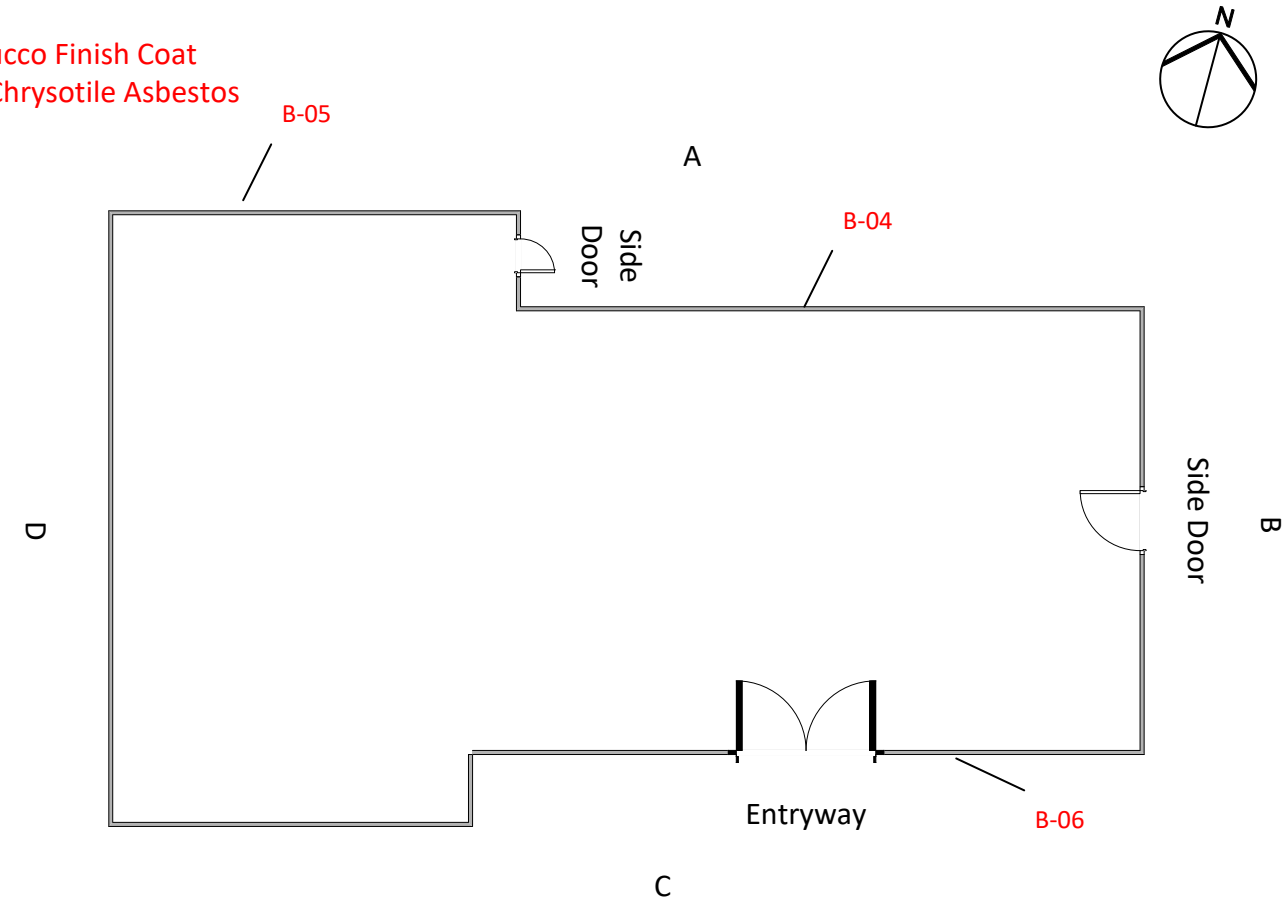
OrderID: 432403719

Attachment # 4

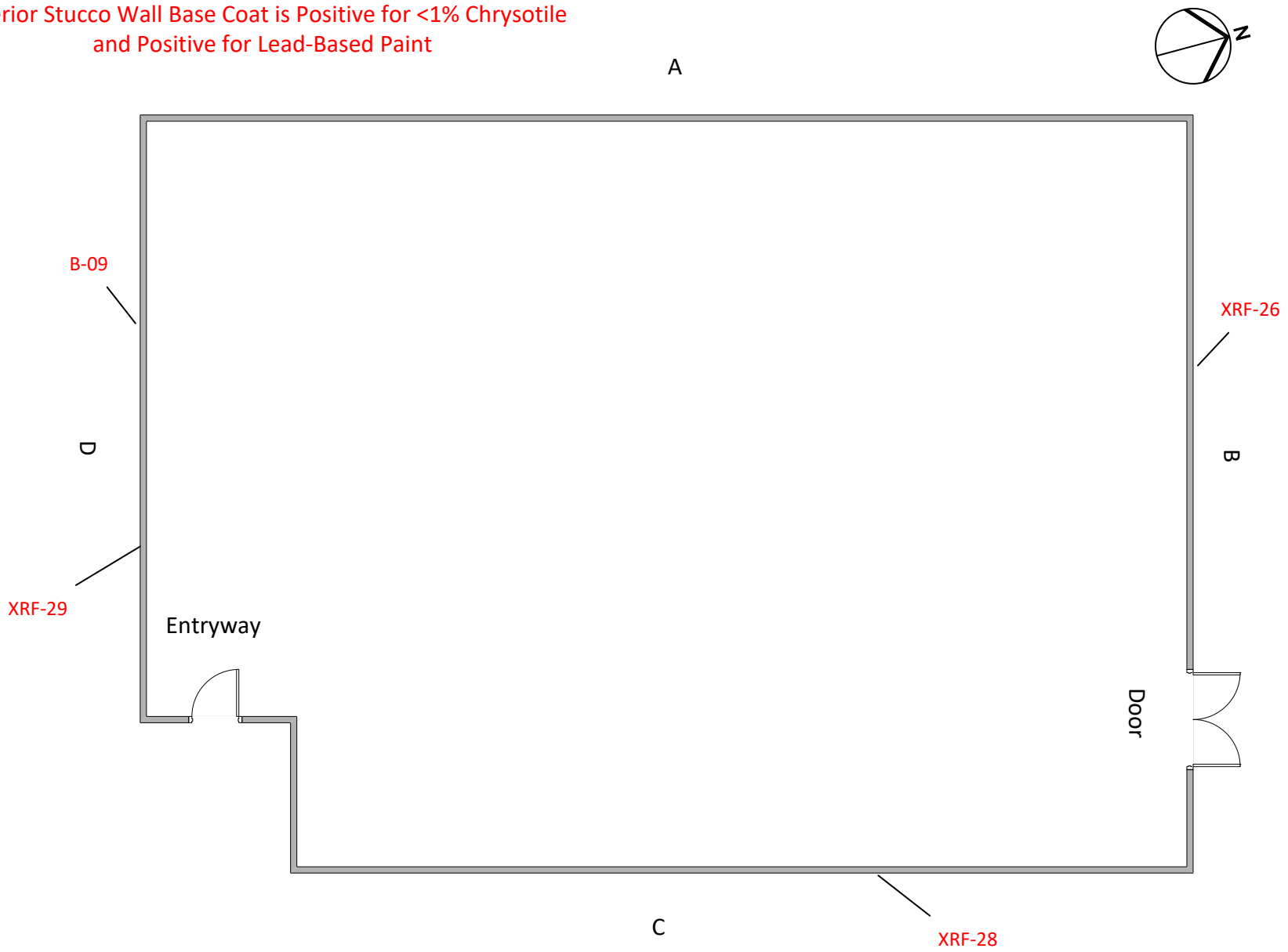
SITE DIAGRAM

Exterior Wall Stucco Finish Coat
is Positive for <1% Chrysotile Asbestos



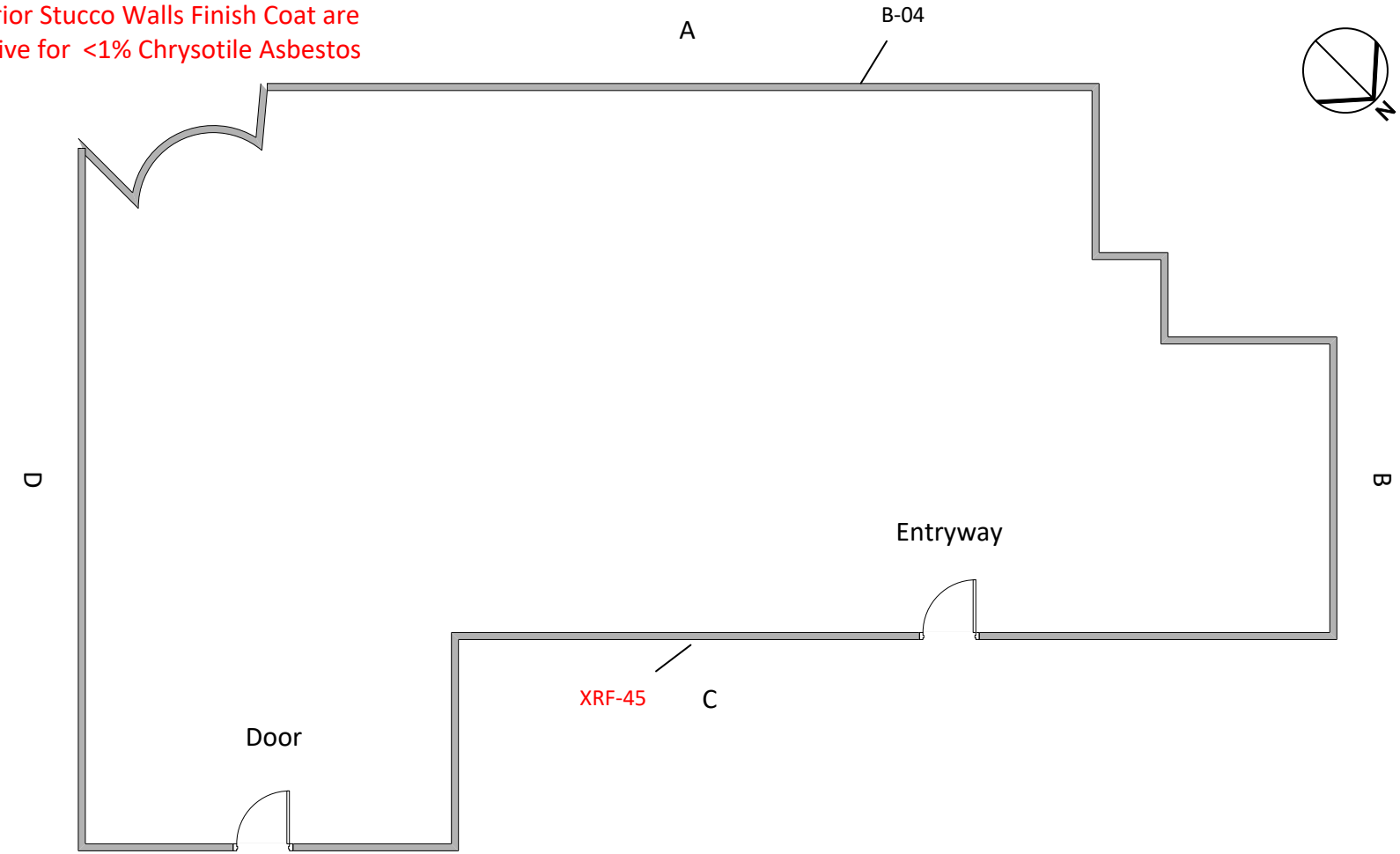
Notification#: 404000086583
Balboa Park International Cottages
House of Denmark – Facility #666 / Floc #F0280
666 Pan American W. Road
San Diego, CA 92101

Exterior Stucco Wall Base Coat is Positive for <1% Chrysotile
and Positive for Lead-Based Paint



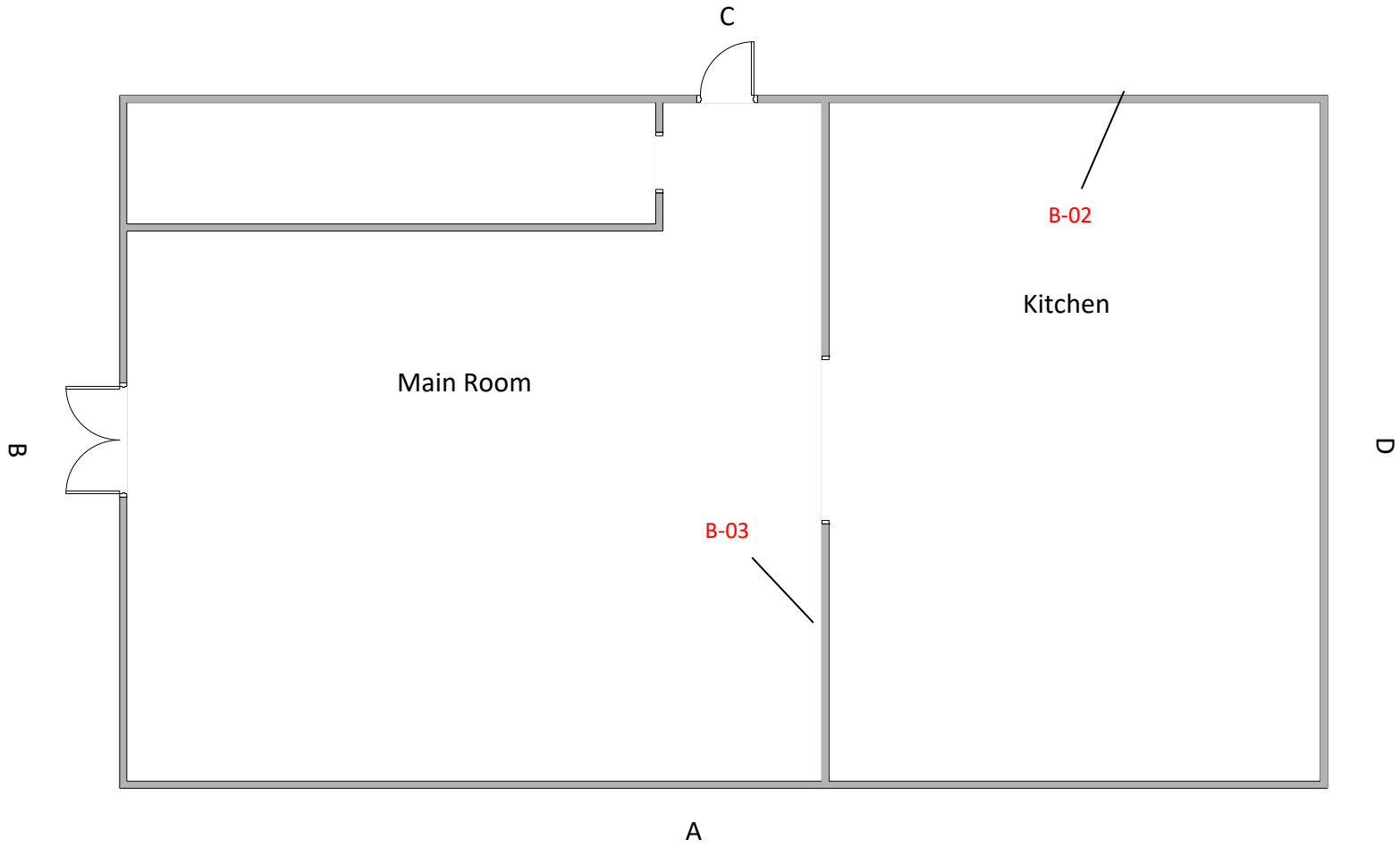
Notification #40400086583
Balboa Park International Cottages
House of Germany – Facility #657 / Floc #F0272
657 Pan American Plaza
San Diego, CA 92101

Exterior Stucco Walls Finish Coat are
Positive for <1% Chrysotile Asbestos



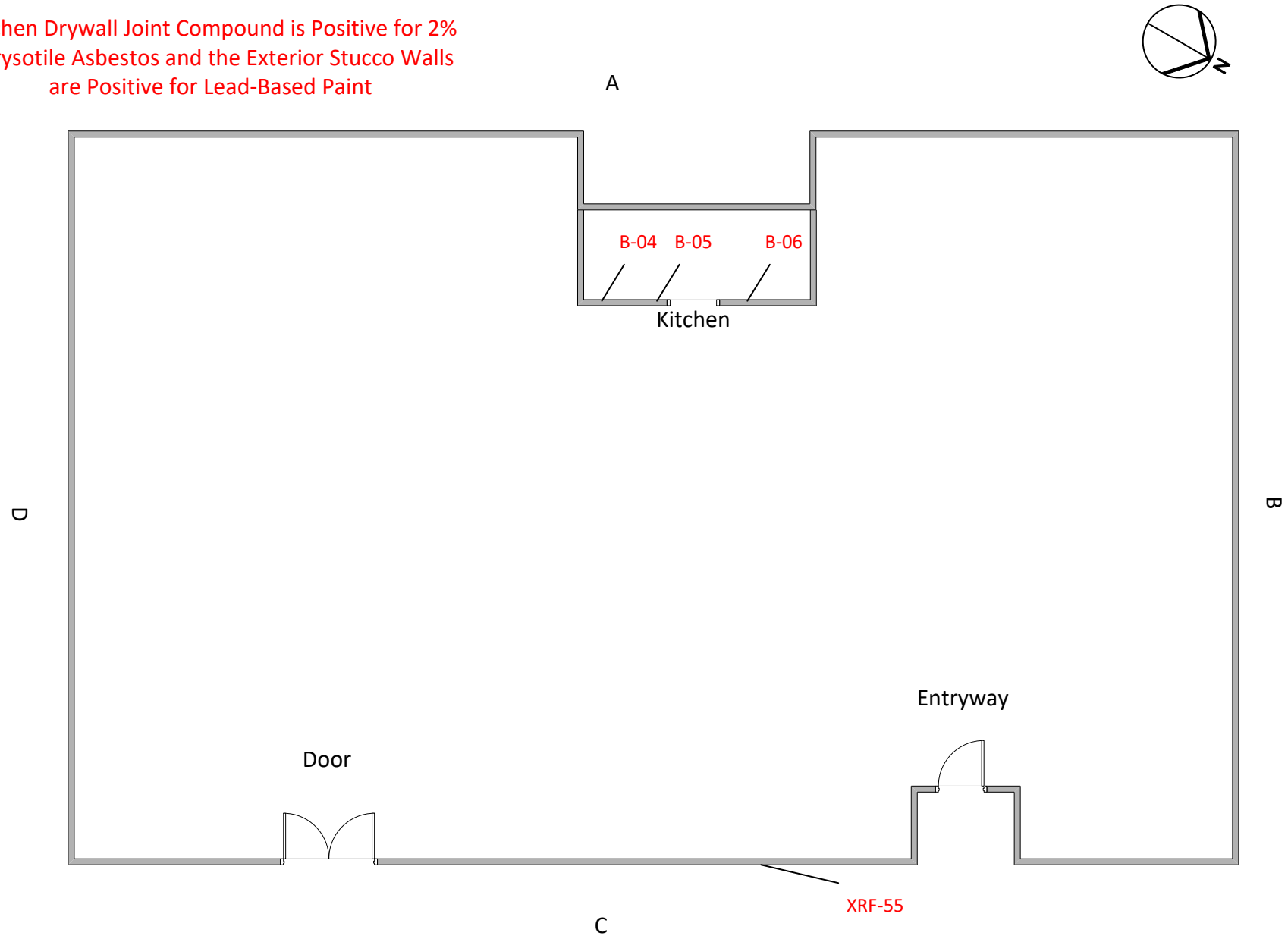
Notification #40400086583
Balboa Park International Cottages
House of Ireland – Facility #665 / Floc #F0279
665 Pan American Plaza
San Diego, CA 92101

Drywall Joint Compound is Positive
for 2% Chrysotile Asbestos



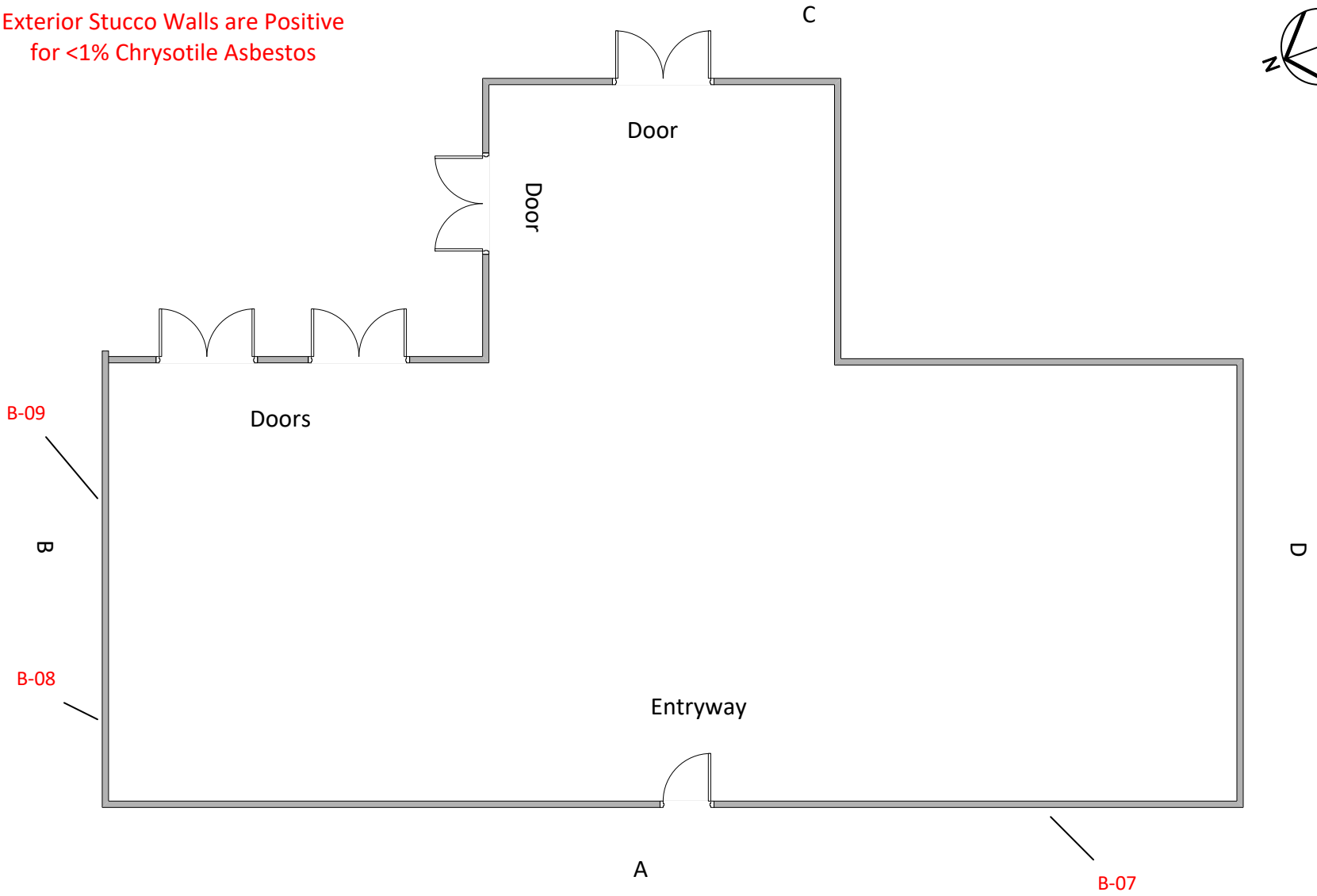
Notification #40400086583
Balboa Park International Cottages
House of Italy – Facility #634 / Floc #F0255
2191 Pan American W. Road
San Diego, CA 92101

Kitchen Drywall Joint Compound is Positive for 2% Chrysotile Asbestos and the Exterior Stucco Walls are Positive for Lead-Based Paint



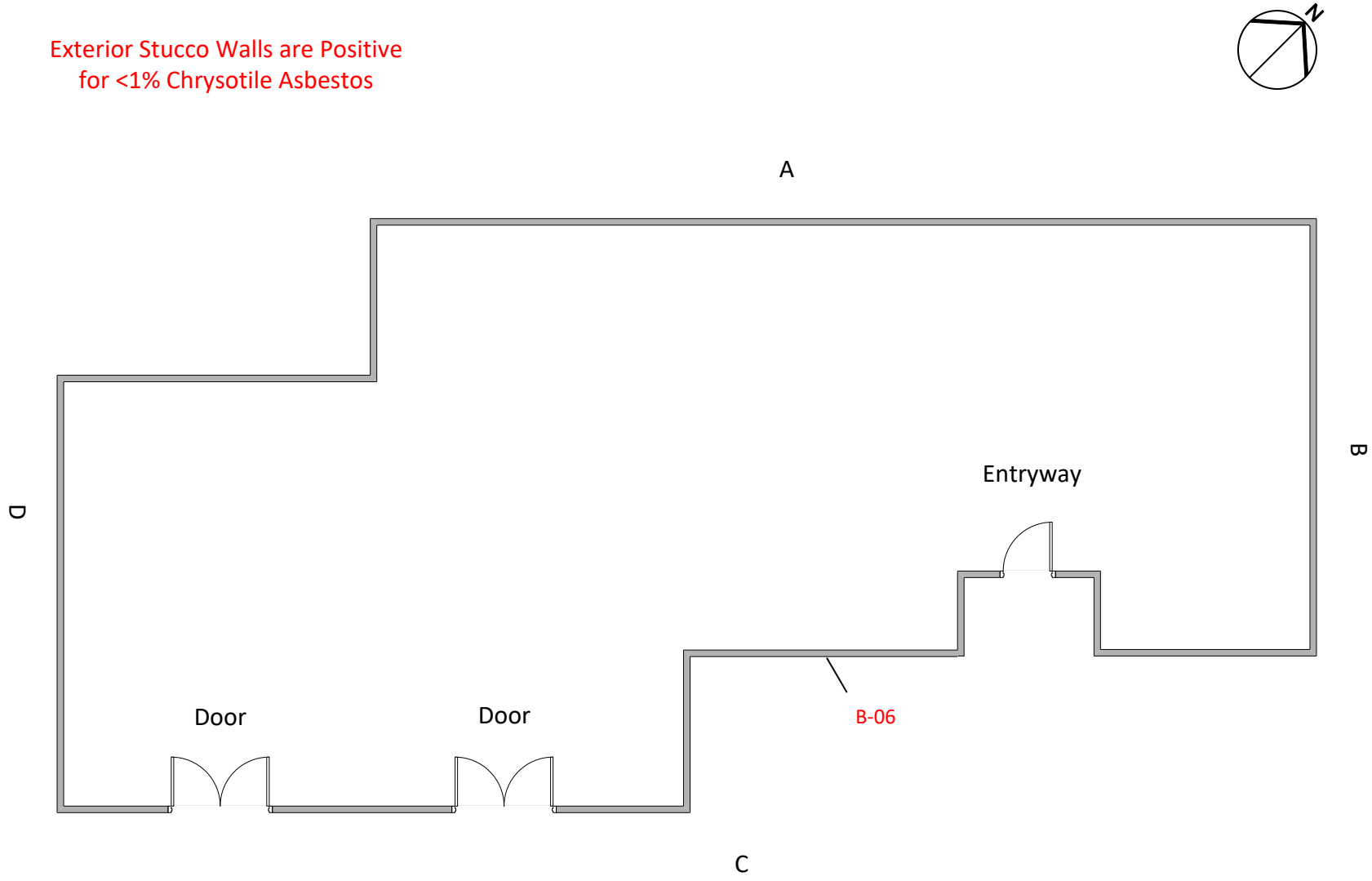
Notification #40400086583
Balboa Park international Cottages
House of Poland – Facility #663 / Floc #F0277
663 Pan American W. Road
San Diego, CA 92101

Exterior Stucco Walls are Positive
for <1% Chrysotile Asbestos



Notification #40400086583
Balboa Park International Cottages
House of Sweden – Facility #664 / Floc #F0278
664 Pan American W. Road
San Diego, CA 92101

Exterior Stucco Walls are Positive
for <1% Chrysotile Asbestos



Notification #40400086583
Balboa Park International Cottages
House of Ukraine – Facility #667 / Floc #F0281
667 Pan American W. Road
San Diego, CA 92101