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March 6, 2017

Vapor Intrusion Mitigation Plan

Property Identification:

Former Young's Cleaners 10700 MacArthur Blvd. Oakland, California Toxics Case No. RO0002580

AEI Project No. 261829

Prepared for:

Mr. John Jay Jay-Phrase Corporation 10700 MacArthur Boulevard Oakland, California 94605

Prepared by:

AEI Consultants 2500 Camino Diablo Walnut Creek, California 94567 (925) 746-6000 Environmental & Engineering Due Diligence

Site Investigation & Remediation

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JAY-PHARES CORPORATION

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March 6, 2017

Kit Soo Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Subject: Perjury Statement and Report Transmittal Vapor Intrusion Mitigation Plan 10700 MacArthur Blvd. Oakland, California AEI Project # 261829 Toxics Case No. RO0002580

Dear Kit Soo:

I declare under penalty of perjury, that the information and/or recommendations contained in the attached report for the above-referenced site are true and correct to the best of my knowledge.

If you have any questions or need additional information, please do not hesitate to call me at (510) 562-9500, or Mr. Peter McIntyre at AEI Consultants, (925) 746-6004.

Sincerely,

MACARTHUR BOULEVARD ASSOCIATES (a California limited partnership)

BY:	JAY-PHARES CORPORATION
	(Its Management Agent)
	By:
	John Jay, President

cc: Mr. Peter McIntyre, AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597

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Vapor Intrusion Mitigation Plan Former Young's Cleaners 10700 MacArthur Blvd. Oakland, California Toxics Case No. RO0002580

SIGNATURES

This document was prepared by, or under the direction of, the undersigned:

Jonathan Sanders, E.I.T. Project Engineer

Trent A. Weise, P.E. Principal Engineer





1. INTRODUCTION

On behalf of MacArthur Boulevard Associates (MBA), AEI Consultants (AEI) is pleased to present this document describing the *Vapor Intrusion Mitigation Plan (VIMP)* for the new Shoe Palace tenant space, at the Former Young's Cleaners in the Foothill Square Shopping Center (GeoTracker ID SL18344764) at 10700 MacArthur Blvd. Oakland, California ("the Site"). Subsurface investigations performed at the Site have identified tetrachloroethylene (PCE) in soil, soil vapor, and groundwater at the Site, released from the former operations of Young's Cleaners at the Site. Indoor air samples collected at the Site suggest that vapor intrusion of PCE-affected soil vapor is occurring at the Site and impacting indoor air quality. At the request of the Alameda County Department of Environmental Heath (DEH), AEI has prepared this VIMP to describe the installation of a vapor barrier as part of tenant improvements prior to occupancy by the new tenant, Shoe Palace, evaluation of the heating, ventilation, and air conditioning (HVAC) systems serving the new tenant and the existing Rainbow Apparel tenant, and performance monitoring.

2. BACKGROUND

The Site is approximately 13.5 acres in size and is currently developed with the Foothill Square Shopping Center. The shopping center consists of five buildings, totaling approximately 155,600 square feet. The area of concern is the former Young's Cleaners, located on the north side of the property. The Site includes a multi-tenant commercial shopping center which was recently purchased from MBA by WAC Enterprise FHS, LLC (WAC) on November 2, 2016.

Young's Cleaners previously operated within a tenant space within a multi-tenant commercial building located at 10700 MacArthur Blvd in the City of Oakland, California (APN 47-5589-1-13). This VIMP addresses the installation of a barrier system as part of tenant improvements of a 6,000 square-foot tenant space for use by Shoe Palace. The Site vicinity is shown on Figure 1. Figure 2 presents a detailed Site plan focused on the tenant improvement area.

Young's Cleaners operated at the Site from 1984 to 1995 and has been identified as the source of PCE in the subsurface. Based on historical environmental investigations conducted at this Site, PCE and its degradation products have been identified in environmental media at the Site. The Site currently maintains a *Site Management Plan* (SMP) dated January 29, 2012, that provides communication of the known contamination and administrative controls for the excavation and handling of impacted media.

Remedial and mitigation actions completed at the Site consist of excavation of impacted soils and the installation and operation of a sub-slab depressurization system (SSDS) and a soil vapor extraction and treatment system (SVET). Routine Groundwater monitoring has been conducted at the Site since 1999.

A soil vapor extraction well, VE-1 was installed at the Site. SVE well VE-1 is a four-inch diameter vapor well set to a total depth of 12-feet below ground surface (bgs) with five-feet of screen set at depth. Six sub-slab depressurization sumps have been installed consisting of an approximately 20-inch long four-inch diameter vapor well placed within gravel. Extraction from the SVE well and sub-slab depressurization sumps commenced on January 14, 2014 and operation of the system continues to-date.



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As documented in AEI's Indoor Air Sampling Report dated September 20, 2016, two indoor air samples were collected during August 2016 at the request of the DEH to assess indoor air quality at the Site. Both PCE and its degradation product trichloroethylene (TCE) were present in the indoor air samples collected during the August 2016 sampling event, with PCE being present at levels exceeding the applicable screening level as provided in the California Regional Water Quality Control Board, San Francisco Bay Region Interim Final Environmental Screening Levels (ESLs) dated February 2016 as determined by the San Francisco Bay Regional Water Quality Control Board (RWQCB). At the request of the DEH, AEI conducted a second round of indoor air sampling to further assess the potential threat to human health from vapor intrusion in December 2016 as documented in the AEI's Additional Indoor Air Sampling Report dated January 10, 2017. PCE and its degradation products were positively identified in each of the six indoor air samples collected as part of the December indoor air sampling, with one sample (IA-3) exceeding the applicable commercial ESL. Based on the results of historical indoor air sampling events, the DEH requested in a letter dated February 16, 2017, and in a subsequent email dated March 1, 2017, that a work plan be prepared to address vapor intrusion issues at the Site in a manner which would be protective of human health and would include, at a minimum, the following components:

- a) The extents and components of the proposed VIMS engineering controls, including conceptual design details and schematics;
- b) The procedures for general installation, quality assurance, and quality control (QA/QC) measures, and performance monitoring of the VIMS; and
- c) Proposed development and implementation of administrative controls, including the implementation of soil management, hazard communication, and risk management plans.

This VIMP has been prepared to meet those requirements.

3. PLANNED USE AND DEVELOPMENT

The Site is currently vacant and undergoing tenant improvements for occupancy by Shoe Palace, a retail shoe store. Tenant improvement construction drawings are provided in Appendix A. Tenant improvements which have or may affect potentially impacted soils or which are relevant to the development of the VIMP are highlighted below:

- Installation of two new bathrooms in the northern corner of the tenant space, including trenching for the installation of sanitary sewer and domestic water lines as depicted in Figure 3.
- Installation of sub-slab electrical trench to center of sales area.

In addition to the tenant improvement considerations identified above, seismic requirements for securing shelves in the sales or stock area may require penetrating the foundation for the installation of lag bolts or the use of adhesives.



3.1. Activities Performed

As the tenant improvement has been commencing, changes to the foundation and excavation of potential impacted soils as part of tenant improvements has been performed. These activities have been limited to two areas as depicted in Figure 3, including:

- Approximately 23 linear feet of trenching was excavated to a depth of 6-inches below the concrete floor slab for the installation of subgrade electrical lines to a pedestal located near the center of the sales floor.
- Approximately 40 linear feet of trenching was excavated to a depth of 36-inches the concrete floor slab to allow for the installation of sanitary sewer and domestic water lines for two restrooms located in the northern corner of the tenant space.

Soils excavated as part of these tenant improvements have been stock piled on-site pending testing for off-site disposal. No sidewall samples or other environmental sampling was conducted during these excavation activities.

4. CHEMICALS OF POTENTIAL CONCERN AND MITIGATION GOALS

Chemicals of potential concern (COPCs) were selected based on the known historical use of the Site and available historical analytical data. A detailed description of the selection of COPCs is provided in the SMP. The primary COPCs for vapor intrusion include: PCE, trichloroethylene (TCE), cis-1,2-dichloroethene (DCE), and vinyl chloride.

To assess whether the concentrations of CPOCs identified in soil vapor beneath the Site pose a significant potential risk to human health under a commercial use scenario, AEI compared the detected concentrations to the Tier II Environmental Screening Levels developed by the California Regional Water Quality Control Board, San Francisco Bay Region for the protection of human health under a commercial exposure scenario for soil vapor intrusion (Table SG-1) and indoor air (IA-1). The selected screening levels are summarized in Table A below.

Chemical	Indoor Air Goal (µg/m³)	Soil Vapor Tier II ESL (µg/m³)		
PCE	2.1	2,100		
TCE	3.0	3,000		
cis-1,2-DCE	35	35,000		
Vinyl Chloride	0.16	160		

Table A – Summary of Commercial Exposure Screening Levels



5. PROPOSED VAPOR INTRUSION CONTROLS

To address the potential risk to indoor air quality posed by the presence of COPCs in soil vapor at concentrations above their respective screening levels, AEI proposes to augment the existing SSDS system by installing and maintaining a vapor intrusion mitigation system within the new Shoe Palace tenant space, and maintaining proper operation of the heating, ventilation, and air conditioning (HVAC) systems for the affected building such that a positive pressure environment inside the building interior is maintained.

The engineered barrier system within Shoe Palace is intended to sufficiently retard the migration of COPC-affected soil vapor into the on-site building such that COPCs in soil vapor no longer represent a potentially unacceptable risk to human health. Proper operation of the HVAC system within Shoe Palace is intended to provide redundancy in the event of failures in the engineered barrier system, and to reduce the potential for vapor intrusion within the Rainbow Apparel tenant space.

The proposed VIMS will be installed and maintained in general accordance with the October 2011 *Vapor Intrusion Mitigation Advisory, Revision 1, Final* (VIMA) issued by the DTSC.

5.1. Design Basis

The purpose of the proposed vapor intrusion controls is to further augment the SSDS system at the Site as additional measures to protect indoor air quality from the potential of vapor intrusion of VOC-affected soil vapor. The additional vapor intrusion controls include the installation of a vapor barrier system within the new Shoe Palace tenant space and confirming and maintaining the proper operation of the HVAC systems, which together will further limit the potential for vapor intrusion and further protect indoor air quality.

AEI proposes to use Land Science Technologies Retro-Coat[™] vapor intrusion coating system to provide a physical barrier to vapor intrusion. The Retro-Coat[™] system will be applied to the existing concrete floor of the Shoe Palace tenant space as part of tenant improvements. The system includes cleaning the concrete surface, sealing cracks or penetrations greater than 1/8th of an inch, installation of a six-mil coat of Retro-Coat[™] primer followed by a 20-mil application of Retro-Coat[™].

To further protect indoor air quality, the existing HVAC systems servicing both Shoe Palace and Rainbow Apparel tenant spaces will be evaluated and modified as needed. The intent of the evaluation is to ensure that the HVAC system is operating properly and providing sufficient makeup air such that the building is not operated at a negative pressure, but at either a neutral to positive pressure.

These activities are presented in detail below.

5.2. Retro-Coat[™] Installation

This section presents the method of installation of the Retro-Coat[™] vapor barrier system to be installed within the 6,000-sugare-foot Shoe Palace tenant space as shown on Figure 4. Installation details are presented in Figure 5.



5.2.1. Closure of Potential Preferential Pathways

Potential preferential pathways for the migration of PCE-affected soil vapor, such as cracks or penetrations through the foundation or unused utilities will be closed and sealed prior to the installation of the vapor barrier system. AEI and the application contractor will first visually inspect the Site for potential preferential pathways. Observable cracks, minor punctures, or small diameter preferential vapor migration pathways greater than 1/8th of an inch will be sealed using the appropriate Retro-Coat[™] product. This process will at a minimum include applying the appropriate Retro-Coat[™] product to the following:

- a) The base of all pipe and conduit penetrations to the slab
- b) Along expansion joints, saw cuts, or other separations between concrete slabs
- c) Along vertical to horizontal transitions
- d) Cracks, minor punctures, or damage to the slab greater than 1/8th of an inch that are accessible and bridgeable with Retro-Coat[™] products.

Larger cracks, punctures, or penetrations which are not bridgeable with a Retro-Coat[™] product, if identified, will be filled using neat cement grout, prior to application of the appropriate Retro-Coat[™] product. Unused utilities will be abandoned and sealed where appropriate using fiberglass wadding and 3M Fire Barrier Sealant (3M CP 25WB), or approved equivalent, to limit the potential migration of vapors.

The existing sub-slab and soil vapor probes will be protected during the installation and tenant improvements, to allow for access and future sampling.

5.2.2. Barrier System Application

Application of the Retro-Coat[™] vapor barrier system will be performed following manufacturer recommendations, including the following five-step process:

- 1) The application area (the 6,000-sugare-foot Shoe Palace tenant space as shown on Figure 4) will be cleaned using a pressure washer to remove oils and debris from the surface as appropriate. The surface will be abraded to optimize adhesion of the applied vapor intrusion barrier.
- 2) Apply Retro-Coat[™] primer across the application area
 - a. Retro-Coat[™] primer will be applied to a minimum thickness of 6 mil per manufacturer specifications
 - b. Retro-Coat[™] primer will be allowed to dry to tack-free
- 3) Apply 20 mil thick Retro-Coat[™] Core across the application area
 - a. Activate the Retro-Coat[™] Core polymer by mixing Retro-Coat[™] Core, part A with a jiffy style mixer until uniform in color and then mixing in Retro-Coat[™] Core part B for another thirty to sixty seconds.
 - b. Pour the Retro-Coat[™] Core on the application area in a ribbon pattern



- c. Squeegee the Retro-Coat[™] Core across the application area to approximately uniform thickness and then back-roll at a coverage rate of approximately 80 square feet per gallon of Retro-Coat[™] Core to achieve a thickness of approximately 20 mil.
- d. Allow Retro-Coat[™] Core solution to dry to tack-free.

This very low permeability layer will be applied across the concrete foundation of the existing structure. Portions of the Retro-Coat[™] system will be overlain with architectural flooring, including in the show area by 24-inch square porcelain tile, 12-inch by 24-inch porcelain tile, or 5-inch wide wood plank as shown in the tenant improvement plan included as Appendix A. The porcelain tiles will be installed using standard tile installation procedures, applying grout directly on to the Retro-Coat[™] surface. The wood plank flooring will be a floating floor. The stock area will not be overlain by any additional finish.

5.2.3. Construction Quality Assurance and Quality Control

AEI will implement the following quality assurance and quality control (QA/QC) measures during the implementation of the VIMS:

- The vapor intrusion barrier will be installed by a manufacturer-certified installer.
- Installation materials will be purchased from a single manufacturer to ensure compatibility and conformity of the products. The manufacturer will provide certification-testing documentation that the materials specified meet or exceed their minimum design requirements.
- Field observation and confirmation that cracks and penetrations with the application area have been appropriate sealed.
- Field observation will be performed on the applied barrier system to ensure that the system has been applied appropriate thickness.

5.2.4. Future Penetrations

Future penetrations or damage to the vapor intrusion barrier, including but not limited to the installation of lag bolts, will be sealed by first cleaning the affected area and then sealing using Retro-Coat[™] Caulk as described in Section 5.1.1.

5.3. HVAC System Evaluation

To further protect indoor air quality, the HVAC systems servicing the Shoe Palace and Rainbow Apparel tenant spaces will be evaluated and modified as needed to ensure proper operation. A licensed commercial HVAC specialist will be contracted to evaluate and adjust the HVAC systems to maintain a positive pressure within the building. The HVAC system evaluation and confirmation that sufficient make-up air is provided by the systems will be measured by performing an airbalance test and documenting the results.

6. PERFORMANCE MONITORING

Following installation of the Retro-Coat[™] vapor barrier system and the HVAC system evaluation, and modification if necessary, performance monitoring will be performed. Two sampling events are proposed: 1) immediately following the tasks presented in Section 5, and 2) six-months



following the initial sampling. This will provide cool and warm weather data points for evaluation. Performance monitoring will include collecting indoor air, sub-slab, and soil vapor samples. Indoor air samples will be collected at locations similar to those used as documented in the *Additional Indoor Air Sampling Report* dated January 10, 2017.

6.1. Indoor Air Sampling

A total of six indoor air samples and one ambient air sample will be collected at the Site at the locations shown on Figure 2. This includes two indoor air samples within the new Shoe Palace tenant space, three within Rainbow Apparel tenant space, and one within an unleased stock area. Each air sample will be collected using laboratory-suppled six-liter evacuated canisters and calibrated flow-controllers to allow a sample to be collected over a 24-hour period. The indoor air sample canisters will be placed within the breathing zone, between the heights of three to five feet above the floor. The ambient air sample will be collected from the roof of the building.

Prior to sampling and after sampling, the initial vacuum for each sample canister will be measured and recorded. Following approximately 24-hours, each sample will be sealed, final vacuum measured and recorded, labeled and transported to the laboratory under chain-of-custody protocol. The collected air samples will be analyzed for PCE, trichloroethene (TCE), cis- and trans-1,2-dichloroethene (DCE), and vinyl chloride using US EPA Testing Method TO-15 SIM.

6.2. Soil Vapor Sampling

Following completion of the indoor air sampling, soil vapor samples will be collected. Sampling soil vapor and indoor air will not be performed concurrently to limit the potential for cross-contamination. Sub-slab and soil vapor samples will be collected from the existing sampling points. A total of ten sub-slab (SS-1 through SS-10) and ten co-located soil vapor (VM-1 through VM-10) are present at the Site and will be sampled.

Soil vapor samples will be collected using one-liter evacuated canisters. Prior to collecting the samples, a shut-in test will be performed by placing a vacuum on the above-grade sampling train and vacuum canisters. The vacuum will be observed for approximately six minutes and verified to not change. Isopropyl alcohol or helium will be used as a leak-check compound. Prior to sampling, and following purging of the sampling lines and approximately three pore volumes of the sand pack and dried bentonite, the purge valve will be closed and the initial vacuum of the laboratory-supplied, certified clean, one-liter vacuum canister will be recorded. Soil vapor samples will be collected through laboratory-supplied, regulators at approximately 150-milliliters per minute. After approximately five minutes (depending on the down-hole vacuum), or -5 in Hg vacuum in the canister, each canister will be closed and removed from the sampling line and the final canister vacuum recorded. Each sample collected will be analyzed for PCE, TCE, cis- and trans-DCE, and vinyl chloride using US EPA Testing Method TO-15.

6.3. Evaluation of Results

Upon receipt of the results of the indoor air and soil vapor samples collected AEI will compare the data to the above-described screening levels. If the indoor air samples do not yield COPC concentrations greater than the screening levels protective of human health, then the proposed vapor intrusion controls will be deemed successful. If COPCs are detected above the screening levels, then the results will be further evaluated and a plan to address the exceedance of the



screening level will presented to the DEH, which may include re-sampling to confirm, further evaluation of potential pathways, etc. The soil vapor results will be used to 1) document subsurface conditions and 2) be compared to the indoor air results to assess site-specific attenuation factors. The results of the sampling will be submitted to the DEH in the VIMS Installation and Performance Monitoring Report described below.

7. LONG-TERM OPERATION AND MAINTENANCE

The proposed vapor mitigation system is an engineered protection for the building from the potential for vapor intrusion of COPC-affected soil vapor, proper operation and maintenance (O&M) is required to ensure that the systems are not damaged and remain operational while COPC concentrations in soil vapor remain elevated. Therefore, as part of the report on the installation of the VIMS, a long-term O&M plan will be prepared that at a minimum will include:

- Written procedures for the evaluation of the integrity of the floor systems, including visual observations for damage or activities that may have damaged the systems.
- A schedule for when to perform the inspections, who is qualified to perform the inspections, and the protocol for how to consider modifications or repairs to the VIMS are warranted.
- Performance measures to ensure that VIMS are operating as intended, which may include sampling of the sub-slab soil vapor and/or indoor air of the building.
- Confirmation that the HVAC system continue to operate as designed.
- Appropriate administrative controls, including notification to the tenants that alteration or removal of the VIMS, including the HVAC system, are prohibited.
- The procedures and conditions under which the long-term O&M plan can be terminated.

Because the vapor mitigation system will be an integral part of the on-site structures, long-term O&M of the systems will be the responsibility of property owner. A draft of the Long-Term O&M Plan will be submitted to the DEH for review and comment prior to the issuance of a final copy.

8. REPORTING AND SCHEDULE

Installation of the vapor barrier is currently scheduled to be completed by March 13, 2017. Upon completion of the installation of the VIMS, evaluation and modification to the HVAC system, and performance monitoring, a report will be prepared documenting the activities. The report will include:

- Document that the installation was performed in accordance with this VMIP and manufacturer specifications and that the specific construction QA/QC procedures were performed and yielded satisfactory results.
- Signed and stamped record drawing set documenting the 'as-built' construction of the vapor intrusion mitigation system, including necessary field changes to the design.
- Results of the HVAC system evaluation and modifications made, if any.



- Results of the performance monitoring.
- Long Term O&M Plan for the VIMS.
- Recommendations for additional work if warranted.

9. REFERENCES

The regulatory record for this Site can be found on the State of California GeoTracker Website at <u>http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600133151</u>.

California Department of Toxic Substances Control (DTSC). 2015. *Advisory – Active Soil Gas Investigation*. July. <u>http://www.dtsc.ca.gov/SiteCleanup/upload/VI_ActiveSoilGasAdvisory_FINAL_043012.pdf</u>

California Regional Water Quality Control Board, San Francisco Bay Region. 2013. User's Guide: Derivation and Application of Environmental Screening Levels – Interim Final. December. http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml



FIGURES













LEGEND



Architectural Finish (where specified)

RetroCoat(R) Sealer

RetroCoat (R) Core

RetroCoat(R) Primer

RetroCoat(R) Cailk

RetroCoat(R) Gel

Surface Preparation (as needed)



~~~~

Expansion joint



Concrete

Soil



'. / <del>.</del>

4

FOR ILLUSTRATIVE PURPOSES ONLY NOT TO SCALE NOT FOR CONSTRUCTION

## AEI Consultants San Jose, California

VAPOR INTRUSION BARRIER SYSTEM DETAILING

10700 MacArthur Blvd Oakland, California FIGURE 5 Project No. 261829

## **APPENDIX A**

## **ARCHITECHTURAL DRAWINGS**







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                                                                                                                                                                                              | С                                                                                                                                                                                 | CONSTRUCTION TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | BUILDING 4 SHOE PALACE: TYPE V-A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -                                                                                                                                    | 112 OFFICE<br>113 SALES                                                                                                                                                                                                                                                           | AREA *2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 83<br>441                                                                                                                                                                                                                                 | 100<br>30                                                                                                                                                                                                                                        | 1                                                                                                                                                                                                                     | -                                                                                                                                                                                               | C<br>D                                                                                                                                                                            | BUILDING HEIGHT:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EXISTING ± 29'-4" (AT HIGHEST PARAPET)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| -<br>ORE,                                                                                                                            |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 35                                                                                                                                                                                                                                        | 100                                                                                                                                                                                                                                              | 1                                                                                                                                                                                                                     | -                                                                                                                                                                                               | D                                                                                                                                                                                 | _ TENANT AREAS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (N) SHOE PALACE TENANT: 5,966 S.F.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| ED<br>R                                                                                                                              |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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       | OCCUPANTS:                                                                                                                                                                                                                                       | 2Ø                                                                                                                                                                                                                    | 1                                                                                                                                                                                               | C, D                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ADJACENT TENANT: (E) 441 S.F.<br>ADJACENT TENANT: (N) 1,568 S.F.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| (E) ROOF<br>: AT<br>-L TO                                                                                                            | EXITING<br>EI "EXIT" SIG<br>E2 "EXIT ROU<br>E3 PROVIDE<br>OF FLOOR<br>OF EXTING<br>LOCAL AL<br>E4 44" WIDE F<br>CONCRETE<br>EXITING                                                                                                                                               | KEY NOT<br>N PER TACTILE EXI<br>ITE" SIGN PER TACT<br>UL. APPROVED MIN<br>2 AREA OR 15 FT. O<br>GUIGHERS WITH ARCH<br>ITHORITIES DURING<br>PERMANENT EGRES<br>E FLOOR IN HIGHWA<br>NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | IT SIGNAGE DET<br>TILE EXIT SIGNA<br>NIMUM RATED 24<br>F TRAVEL DIST,<br>HITECT AND FIR<br>CONSTRUCTION<br>S PATH OF TRA<br>Y WHITE.                                                                                                      | AIL (14/TØ.1).<br>GE DETAIL (14/TØ<br>A:10B-C PORTAE<br>ANCE AS REQUIR<br>E MARSHAL, PR<br>VEL W/ PAINTED                                                                                                                                        | 0.1).<br>BLE FIRE EXTINGU<br>ED BY FIRE MAR<br>OVIDE FIRE PRO<br>OUTLINE & DIAG                                                                                                                                       | JIGHER FOR EAC<br>RGHAL. VERIFY<br>DTECTION IF REG<br>ONAL STRIPING                                                                                                                             | CH 3,000 SF<br>LOCATIONS<br>NUIRED BY<br>ON                                                                                                                                       | BUILDING 4 ALLOWABLE B<br>MIXED OCCUPANCY:<br>(NONSEPARATED OCCUPA)<br>ALLOWABLE AREA FOR M<br>(BASED ON MOST RESTRIC<br>14,000 SF BASIC ALL<br>SPRINKLER INCREASE: 14,0<br>ALLOWABLE BUILDING AREA<br>ACTUAL BUILDING AREAS:<br>1ST FLOOR:<br>2ND FLOOR:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | UILDING AREA CALCULATION<br>M & B<br>NCIES PER 508.3)<br>OCCUPANCY<br>TIVE OCCUPANCY PER 508.3.2):<br>_OWABLE PER CBC TABLE 503<br>000 SF + (14,000 SF $\times$ 2) = 42,000 SF<br>EA = 42,000 SF<br>17,400 SF.<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| LL TO REMAIN                                                                                                                         |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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       |                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                       |                                                                                                                                                                                                 |                                                                                                                                                                                   | 22,511 SF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (NO CHANGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TRACK TO<br>AT HEAD &<br>XIG GA CLIP<br>3) #10 SMS<br>AT HEAD<br>NING TO<br>ED<br>COUSTIC<br>PE X GWB,                               | <ol> <li>DOORWAYS A<br/>CONTRACTOR</li> <li>MERCHANDISE<br/>THAN 36" IN U</li> <li>ILLUMINATION</li> <li>WALL MOUNTE<br/>PROVIDE, IN<br/>LATCH SIDE A<br/>LOCATION AL<br/>OBJECTS OR<br/>TACTILE EXIT<br/>WITH THE WOR<br/>BRAILLE DO<br/>SECOND COL<br/>MINIMUM 1/401</li> </ol> | AND FRAMED OPEN<br>R TO VERIFY (E) DO<br>E DISPLAY FURNISHIN<br>JIDTH AND ACCESS T<br>AT ALL EXIT WAYS<br>ED TACTILE EGRESS<br>ADDITION TO EXIT<br>OF THE DOOR SIGN<br>LOWS A PERSON TO<br>STANDING WITHIN T<br>WITH THE WORD "E<br>RDS "EXIT ROUTE".<br>TS ARE 1/10" ON CE<br>LUMN OF DOTS IN TH<br>" ABOVE BACKGRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | INGS SHALL BE<br>DORS TO REMAI<br>NGS SHALL BE A<br>TO A COMMON P<br>SHALL BE MAIN<br>3 (EXIT) SIGNAG<br>SIGNAGE, GRAD<br>IS ARE CENTER<br>O APPROACH U<br>HE SWING OF A<br>EXIT"± AND, INTE<br>NTER IN EACH O<br>HE FIRST COLUM<br>DUND. | MAINTAINED AT<br>N MEET THIS REG<br>ARRANGED TO MA<br>ATH OF EGREGS 1<br>ITAINED WITH AT I<br>E (DETAIL 14/TØ<br>DE 2 BRAILLE TA<br>ED ON THE WALL<br>JITHIN 3" OF THE<br>DOOR EACH EX<br>RIOR EXIT DOOF<br>CELL WITH 2/10" S<br>N OF DOTS IN TH | NOT LESS THAN<br>QUIREMENT.<br>INTAIN ACCESS A<br>RAVEL SHALL NO<br>LEAST ONE FOOT<br>I)<br>CTILE SIGNS ON<br>GO'' ABOVE FIN<br>SIGNAGE WITHOU<br>TERIOR EXIT DO<br>RS SHALL BE IDE<br>PACE BETWEEN<br>E SECOND CELL. | 32" WIDE CLEAR<br>IGLES & AIGLEWA<br>DT BE MORE THA<br>CANDLE AT THE<br>THE WALL ADJA<br>IGHED FLOOR 1<br>T ENCOUNTERING<br>OOR GHALL BE 11<br>ENTIFIED BY A 1<br>CELLS, MEASUR<br>BRAILLE DOTS | R THROUGHOUT.<br>ATS NOT LESS<br>N 30' IN LENGTH.<br>E FLOOR LEVEL.<br>ACENT TO THE<br>MOUNTING<br>G PROTRUDING<br>DENTIFIED BY A<br>ACTILE EXIT<br>ED FROM THE<br>G ARE RAISED A | THE GENERAL CONTRACTOR WI<br>CODES, ORDINANCES AND BUIL<br>MEANS, METHODS, TECHNIQUES<br>UTILITY AGENCIES HAVING JURI<br>SPECIFICATIONS FOR CONSTRUC<br>CERTIFIED IN ACCORDANCE WI<br>ARCHITECTURE AND ENGINEER<br>2013 CALIFORNIA BUILDING C<br>2013 CALIFORNIA BUILDING C<br>2013 CALIFORNIA ELECTRICAL<br>2013 CALIFORNIA ELECTRICAL<br>2013 CALIFORNIA ELECTRICAL<br>2013 CALIFORNIA ELECTRICAL<br>2013 CALIFORNIA ENERGY CO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH APPLICABL<br>DING CLASSIFICATIONS FOR HIS SPECIFIED TYPE. CONSTRUCTION<br>AND PROCEDURES WILL COMPLY WITH REGULATORY AGENCIES AN<br>SDICTION FOR THE <u>CITY OF OAKLAND</u> . ALL PLANS AND<br>CTION SHALL CONFORM TO ALL APPLICABLE CODES AND BE<br>TH THE STATE OF <u>CALIFORNIA</u> LAWS GOVERNING THE PRACTICE OF<br>ING. THE CURRENT CODES ARE LISTED BELOW:<br>ODE 2010 ADA STANDARDS FOR<br>ACCESSIBLE DESIGN<br>L CODE ENERGY COMMISSION STANDARDS<br>L CODE CITY OF OAKLAND MUNICIPAL CODE<br>CODE<br>DE<br>DTES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| MTL, STUD                                                                                                                            | DIREC                                                                                                                                                                                                                                                                             | TORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                         |
| MTL. STUD<br>1) 5/8" TYPE<br>INGLE STUD<br>ITION<br>BAGE T.B.D.<br>IANT<br>T PHASE<br>PRIVEN<br>CRIVEN<br>CRIVEN<br>CRIVEN<br>CRIVEN | LANDLORE<br>MACARTHU<br>10700 MAC<br>OAKLAND,<br>PHONE: 510<br>FAX: 510.50<br>CONTACT:<br>LANDLORE<br>428 1/2 FIF<br>WOODLANE<br>PHONE: 53<br>FAX: 530.6<br>CONTACT:<br>LANDLORE<br>JAY PHARE<br>PHONE: 510<br>CONTACT:<br>LIC*: 84130                                            | DESIGN REPR<br>DESIGN REPR<br>DESIG | CONTA<br>REPRESENT<br>ASSOCIATES<br>EVARD, STE<br>ESENTATIVE<br>ES ARCHITE<br>TE 204<br>ESS<br>N REPRESEN<br>ON                                                                                                                           | CTS, INC.                                                                                                                                                                                                                                        | ENANT<br>HOE PALACE<br>35 JARVIS DR<br>ORGAN HILL,<br>HONE: (408)<br>ONTACT: GEC<br><u>1ECH/E</u><br>MEP ENGINEE<br>320 FOOTHILL<br>AYWARD, CA<br>HONE: 949.26<br>ELL: 909.569<br>ONTACT: DINE                        | CORPORATI<br>CA 95037<br>629-1000 XT<br>PRGE MERSHO<br>LEC/P<br>ER<br>I BLVD., SUIT<br>94541<br>7.9095 X206<br>.8219<br>ETH KETAGOI                                                             | ON<br>1150<br>2<br>LUMB<br>52<br>54                                                                                                                                               | <ol> <li>CONTRACTOR SHALL VISIT<br/>UNDERST &amp; THE REQUIREME<br/>DIMENSIONS, ELEVATIONS &amp;<br/>ARCHITECT OF ANY DISCR<br/>RESPONSIBLE FOR ALL CO<br/>THE DUTIES LISTED ABOVE</li> <li>ALL WORK &amp; MATERIALS SH<br/>AMENDED, THE MOST CURR<br/>OF THE CITY OR COUNTY W<br/>BUILDING SUMMARY OR TH</li> <li>UNLESS OTHERWISE INDICA<br/>MATERIALS, ETC. &amp; INSTALL<br/>THESE DRAWINGS.</li> <li>CONTRACTOR SHALL ASSU<br/>CONTRACTOR MUST COMPL<br/>WORKERS, PEDESTRIANS &amp;<br/>PROVIDE PROTECTION AS<br/>WITHIN &amp; ADJACENT TO JOE<br/>OR REPLACE DAMAGED A<br/>REQUIREMENT SHALL APPL</li> <li>CONTRACTOR SHOULD PRO<br/>UTILITIES, OTHER SERVICES<br/>CONSTRUCTION REQUIRED</li> <li>CONTRACTOR SHALL VERII<br/>&amp; ON THE SITE, TO THE BUIL<br/>PROPOSED ON THE PLANS</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | THE SITE, FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS & REVIEW<br>NTS OF THE CONTRACT DOCUMENTS. CONTRACTOR SHALL VERIFY A<br>CONDITIONS PRIOR TO BEGINNING ANY WORK & SHALL NOTIFY THE<br>EPANCY. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL BE<br>PRRECTIONS & REPAIRS REQUIRED DUE TO HIS FAILURE TO PERFORM<br>HALL CONFORM TO THE LATEST ADOPTED BUILDING CODE AS<br>EXA ADOPTED FIRE CODE EDITION, ALL ORDINANCES & REGULATION<br>ITH JURISDICTION & SPECIAL REQUIREMENTS INDICATED IN THE<br>EGE GENERAL NOTES.<br>TED ON THESE DRAWINGS AS BEING N.I.C. OR EXISTING ALL ITEMS,<br>ATION OF THE SAME ARE A PART OF THE CONTRACT DEFINED BY<br>ME SOLE & COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS.<br>IN WITH SAFETY REGULATIONS & RESTRICTIONS AS REQUIRED FOR<br>VEHICULAR TRAFFIC DURING THE CONSTRUCTION OF THIS PROJECT.<br>REQUIRED TO PREVENT ANY DAMAGE TO EXISTING CONSTRUCTION<br>IS SITE. WHERE DAMAGE OCCURS, THE CONTRACTOR SHALL REPAIR<br>REA #/OR MATERIAL AT NO ADDITIONAL COST TO THE OWNER. THIS<br>INT CONTINUOUSLY & IS NOT LIMITED TO NORMAL WORKING HOURS.<br>DVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION<br>IS RELATED TASKS NECESSARY FOR PROPER EXECUTION OF THE<br>BY THE CONTRACT DOCUMENTS.<br>THE SIZE & LOCATION OF ALL EXISTING UTILITY LINES ADJACENT<br>INNO(S) AS MAY BE INDICATED, AS WELL AS CONNECTIONS EXISTING. |
|                                                                                                                                      |                                                                                                                                                                                                                                                                                   | GENERAL TIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                  | AN, DEMO, FLO                                                                                                                                                                                                         | OOR, AND EX                                                                                                                                                                                     | ITING PLAN                                                                                                                                                                        | 9. CONTRACTOR SHALL VERI<br>ATTACHMENT OF FINISH WO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | FY W/ OWNER LOCATION OF BLOCKING NAILS, ETC. REQUIRED FOR<br>RK SUCH AS BATHROOM ACCESSORIES, SHELVES, ETC. PRIOR TO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| N -                                                                                                                                  | TØ.1                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | T COMPLIAN                                                                                                                                                                                                                                | NCE NOTES AN                                                                                                                                                                                                                                     | ND DETAILS                                                                                                                                                                                                            |                                                                                                                                                                                                 |                                                                                                                                                                                   | <ul> <li>INSTALLATION OF GYP BD.</li> <li>IØ. THE CONTRACTOR SHALL I</li> <li>LICENSES INSPECTIONS 4 1</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | BE RESPONSIBLE FOR OBTAINING & PAYING FOR ALL PERMITS,<br>TESTING INDICATED ON THE PLANS OR SPECIFICATIONS OR REQUIRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| -                                                                                                                                    | AØ.1<br>A1.Ø                                                                                                                                                                                                                                                                      | ACCESSIBLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TOILET ROO                                                                                                                                                                                                                                | MG- INTERIOR                                                                                                                                                                                                                                     | RELEVATIONS                                                                                                                                                                                                           | 6 & DETAILS                                                                                                                                                                                     |                                                                                                                                                                                   | BY ANY GOVERNMENT AGE<br>II. ALL SHOP WELDING TO BE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NCY WITH JURISDICTION.<br>DONE IN A CERTIFIED LICENSED SHOP. ALL FIELD WELDING SHALL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| -                                                                                                                                    | A2.Ø                                                                                                                                                                                                                                                                              | DEMOLITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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       | CTED CEILING                                                                                                                                                                                                                                     | F PLANG                                                                                                                                                                                                               |                                                                                                                                                                                                 |                                                                                                                                                                                   | BE DONE ONLY BY LICENS<br>CERTIFICATE ISSUED AS RE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SED WELDERS UNDER CONTINUOUS SPECIAL INSPECTION WITH<br>EQUIRED BY BUILDING OFFICIAL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| -                                                                                                                                    | A4.Ø                                                                                                                                                                                                                                                                              | EXISTING & PI<br>EXTERIOR WA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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       | LANS/EXTERIO                                                                                                                                                                                                                                     | OR ELEVATIO                                                                                                                                                                                                           | NS & SECTIO                                                                                                                                                                                     | N AT SOUTH                                                                                                                                                                        | SHALL SUBMIT PLANS TO T<br>STARTING IMPROVEMENT W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | HE DEPARTMENT OF BUILDING & SAFETY FOR APPROVAL PRIOR TO<br>ORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                      | <u>S1</u>                                                                                                                                                                                                                                                                         | STRUCTURAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | DETAILS                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                       |                                                                                                                                                                                                 |                                                                                                                                                                                   | <ul> <li>13. CONTRACTOR MUST NOTIFY<br/>REQUIRED BY FIELD COND<br/>SAID WORK.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ARCHITECT IN WRITING OF ANY REVISION OR ADDITIONAL WORK<br>DITIONS OR LOCAL GOVERNING AUTHORITIES PRIOR TO BEGINNING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| -                                                                                                                                    | MIØ                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                           | 3 & PI AN                                                                                                                                                                                                                                        |                                                                                                                                                                                                                       |                                                                                                                                                                                                 |                                                                                                                                                                                   | 14. NO STRUCTURAL MEMBER S<br>DETAILED \$/OR APPROVE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | BHALL BE CUT FOR PIPES, A.C. DUCTS, ETC., UNLESS SPECIFICALLY<br>D BY THE STRUCTURAL ENGINEER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| -                                                                                                                                    |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                       |                                                                                                                                                                                                 |                                                                                                                                                                                   | 15. FRAMING ANCHORS, STRAF<br>OR APPROVED EQUAL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | S & HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| -                                                                                                                                    | P1.Ø                                                                                                                                                                                                                                                                              | PLUMBING SC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | HEDULE, DE                                                                                                                                                                                                                                | TAILS, & PLAN                                                                                                                                                                                                                                    | 1                                                                                                                                                                                                                     |                                                                                                                                                                                                 |                                                                                                                                                                                   | I6. UHERE LARGER STUDS, OR<br>THE LARGER SIZE STUD OR<br>THE FURRING OCCURS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | R FURRING, ARE REQUIRED TO COVER DUCTS, PIPING, CONDUIT, ETC.,<br>R FURRING SHALL EXTEND THE FULL LENGTH OF THE SURFACE WHERE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| -                                                                                                                                    | E1.Ø                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GENERAL NO                                                                                                                                                                                                                                | DTES & LEGEN                                                                                                                                                                                                                                     | ID<br>Rams & Light                                                                                                                                                                                                    |                                                                                                                                                                                                 |                                                                                                                                                                                   | II. PROVIDE FIRE STOPPING I<br>HORIZONTAL) AT 10'-0" O.C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | O CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL \$<br>D. EACH WAY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| -                                                                                                                                    | E2.Ø                                                                                                                                                                                                                                                                              | ELECTRICAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | PLANS                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                       |                                                                                                                                                                                                 |                                                                                                                                                                                   | 18. ALL EXPOSED STEEL ITEM<br>19. THE BUILDING(6) & FACILIT<br>DIGARLED IN ACCORDANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | S SHALL BE GALVANIZED \$/OR PRIMED \$ PAINTED.<br>IES MUST BE ACCESSIBLE TO \$ FUNCTIONAL FOR THE PHYSICALLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                                                      | E3.Ø                                                                                                                                                                                                                                                                              | TITLE 24 LIGH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ITING COMPL                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                       |                                                                                                                                                                                                 |                                                                                                                                                                                   | <ul> <li>DISABLED IN ACCORDANC</li> <li>FOR ACCESSIBLE DESIGN,<br/>ACCESSIBILITY LAWS.</li> <li>20. EXIT SIGNS SHALL MEET TH<br/>ELECTRICAL SHEET FOR LO</li> <li>21. ALL PRODUCTS SHALL BE</li> <li>22. DO NOT USE CADMIUM OR<br/>FOR WORK IN PLACE.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | LE WITH THE 2010 AMERICANS WITH DISABILITIES ACT (ADA) STRARDS<br>THE 2013 CALIFORNIA BUILDING CODE & ALL OTHER APPLICABLE<br>HE REQUIREMENTS OF THE EFFECTIVE BUILDING. & FIRE CODES. SEE<br>OCATION OF EXIT SIGNS & EMERGENCY EXIT LIGHTING.<br>INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.<br>CADMIUM PLATED PRODUCTS OR PRODUCTS CONTAINING CADMIUM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                      |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                       |                                                                                                                                                                                                 |                                                                                                                                                                                   | <ol> <li>23. DO NOT USE ASBESTOS OF<br/>CONTRACTOR SHALL NOT O<br/>EQUIPMENT, CONSTRUCTION<br/>MATERIAL, EQUIPMENT, CON<br/>TO CONTAIN HAZARDOUS N</li> <li>24. ELECTRICAL EQUIPMENT SH</li> <li>25. THE TERM "PROVIDE" AS UNSTALL SAID ITEM, CONSTRUCT ON THE SAI</li></ol> | R ASBESTOS CONTAINING PRODUCTS FOR WORK IN PLACE.<br>CUT, DRILL, REMOVE, OR OTHERWISE DISTURB ANY MATERIAL,<br>I, ETC., IF IT IS THOUGHT TO CONTAIN ANY HAZARDOUS MATERIAL. IF<br>NSTRUCTION, ETC., IS ENCOUNTERED THAT APPEARS TO, OR IS LIKELY<br>IATERIALS, NOTIFY OWNER IMMEDIATELY.<br>HALL BE CERTIFIED AS CONTAINING NO PCB'S.<br>ISED HEREIN SHALL MEAN THAT THE CONTRACTOR SHALL FURNISH &<br>RUCTION, EQUIPMENT, MATERIALS, ETC., FOR A COMPLETE, FINISHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| //////////////////////////////////////                                                                                               | ∖∖≞└╡ ^ _ ].]                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                           | ↓ , , , , , , , , , , , , , , , , ,                                                                                                                                                                                                              |                                                                                                                                                                                                                       |                                                                                                                                                                                                 |                                                                                                                                                                                   | 26. ALL LEGAL EXITS INDICAT<br>THE USE OF A KEY OR ANY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ED ON THE PLANS SHALL BE OPENABLE FROM THE INSIDE WITHOUT<br>SPECIAL KNOWLEDGE OR EFFORT & SHALL BE LABELED, "THIS DO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                      |                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                       | , .                                                                                                                                                                                             |                                                                                                                                                                                   | <ul> <li>TO REMAIN UNLOCKED DUF<br/>ON A CONTRASTING BACKO<br/>TYPE. FLUGH BOLTG OR GL<br/>DOORS SHALL NOT EXCEL<br/>LBS. FOR FIRE RATED DOORS</li> <li>21. WHERE EXIT DOORS SWING<br/>BELOW THE THRESHOLD.</li> <li>28. ALL FLOORS IN PUBLIC AF<br/>29. ALL FLOORS IN PUBLIC AF<br/>TRAVEL, RESTROOMS, PUI<br/>INTO FULL COMPLIANCE W<br/>ACCESS ST\$ARDS AT THE</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RING BUSINESS HOURS" IN BLOCK LETTERS A MINIMUM OF I INCH HIGH<br>GROUND. SPECIAL LOCKING DEVICE SHALL BE ON AN APPROVED<br>IRFACE BOLTS ARE NOT ALLOWED. MAXIMUM EFFORT TO OPERATE<br>ED 5 LBS. FOR EXTERIOR DOORS, 5 LBS. FOR INTERIOR DOORS & 5<br>ORS.<br>OUT OVER A LANDING, THE LANDING SHALL NOT BE MORE THAN 1/4"<br>REAS SHALL HAVE NON-SLIP SURFACES.<br>ROVEMENTS SHALL ENSURE THAT PRIMARY ENTRANCES, ROUTE C<br>BLIC PHONES & DRINKING FOUNTAINS (IF ANY) WILL BE BROUGHT<br>JITH THE CURRENT STATE OF CALIFORNIA TITLE 24 DISABLED<br>E TIME OF TENANT IMPROVEMENT PERMIT SUBMITTAL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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       |                                                                                                                                                                                                                                                  | SCA                                                                                                                                                                                                                   | LE: 1" = 100'-                                                                                                                                                                                  | .@" PROJECT<br>NORTH                                                                                                                                                              |                                                                                                                                                                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DOOR / HARDWARE & BUILDING ACCESSIBILITY COMPLIANCE THIS BUILDING SHALL COMPLY WITH THE MORE RESTRICTIVE REQUIREMENTS FROM THE 2013

- PART 2, CHAPTER 11A OR 11B AS FOLLOWS: ALL BUILDING ENTRANCES & REQUIRED EXITS SHALL BE ACCESSIBLE & SHALL CONFORM TO THE DRS & FLOOR REQUIREMENTS DETAIL & DR CLEARANCES - PLAN DETAIL, THIS SHEET. PROVIDE WARNING SIGN FOR ALL EXTERIOR PERSONNEL DRS THAT ARE NOT ACCESSIBLE STATING: "WARNING: THIS DR. IS NOT AN ACCESSIBLE EXIT". SIGN TO BE BETWEEN 48" \$ 60" AFF. TO LATCH SIDE OF DR, IN BOTH RAISED LETTER \$ BRAILLE
- WHERE PERMANENT SIGNAGE IS PROVIDED FOR ROOMS & SPACES, RAISED LETTERS SHALL BE PROVIDED & SHALL BE ACCOMPANIED BY GRADE 2 BRAILLE. CHARACTERS 4 BRAILLE SHALL BE IN A HORIZONTAL FORMAT. BRAILLE SHALL BE PLACED A MINIMUM OF 3/8" & A MAXIMUM OF 1/2" DIRECTLY BELOW THE TACTILE CHARACTERS; FLUSH LEFT OR CENTERED. SIGNS SHALL BE INSTALLED ON WALL ADJACENT TO LATCH OUTSIDE OF THE DR. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES MINIMUM. CHARACTERS \$ BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD, PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. SEE DR \$ FLOOR REQUIREMENTS DETAIL THIS SHEET.
- ACCESSIBLE DRS SHALL BE 3'-O" X 6'-8" MINIMUM & SHALL BE LATCH-LESS WITH PUSH BAR(S) OR PUGH PLATE(S) OR SHALL HAVE LEVER H&LE, PUSH-PULL OR PANIC TYPE BAR(S). DR. HARDWARE MOUNTING, THRESHOLD, FLOOR ELEVATION CHANGES, & CLEAR SPACE REQUIREMENTS SHALL COMPLY WITH THE DRS & FLOOR REQUIREMENTS DETAIL & DR CLEARANCES - PLAN DETAIL, THIS SHEET, SEE FLOOR PLAN FOR DIRECTION OF DR
- 4. MAXIMUM EFFORT TO OPERATE DRS SHALL BE AS FOLLOWS (OR AS REQUIRED BY GOVERNING JURISDICTION ): - INTERIOR DR.S - 5 POUNDS.
- EXTERIOR DRS 5 POUNDS.
- FIRE RATED DRS MINIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS. - EXIT DRS SHALL BE OPERABLE FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE
- 5. FOR ALL EXIT DR3 REQUIRED BY CODE ("LABELED" ON PLAN), PROVIDE EXTERIOR
- 6. CONTROL DEVICES SHALL BE MADE ACCESSIBLE, SEE SWITCH REC./DEVICE LOCATION DETAIL & PLUMBING & TOILET ROOM ACCESSIBLE MOUNTING HEIGHT & CLEARANCES DETAIL, THIS SHEET. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 LBS. MAX.
- I. HAND ACTIVATED DR. OPENING HARDWARE SHALL BE CENTERED BETWEEN 34" & 44" ABOVE THE FLOOR. LATCHING & LOCKING DRG THAT ARE HAND ACTIVATED & WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE, LOCKED EXIT DR.S SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.
- 3. THE LEVER OF LEVER ACTUATED LATCHES OR LOCKS SHALL BE CURVED WITH A RETURN TO WITHIN 1/2" INCH OF THE DR. TO PREVENT CATCHING ON THE CLOTHING OF PERSONS
- 9. VERIFY KEYING & RE-KEYING OF LOCK SETS & HARDWARE FINISH WITH OWNER & TENANT

SCALE: N.T.S.

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| NANT IMPROVEMENT FOR<br>SHOE PALACE<br>TORE *AT FOOTHILL SQUARE,<br>OAKLAND CA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| MACARTHUR BOULEVARD ASSOCIATES<br>10700 MACARTHUR BLVD, STE 200<br>OAKLAND, CALIFORNIA 94605<br>P: (510) 562-9500 F: (510) 562-9505<br>johnjay@jayphares.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| And Antipage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| NO 12733<br>NO 1273<br>NO 1273<br>NO 1273<br>NO 1273<br>NO 1273<br>NO 1273<br>NO 1273<br>NO |
| PERMIT SET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| DRAWN<br>M & A<br>CHECKED<br>M & A<br>DATE<br>10-24-2016<br>SCALE<br>NOTED<br>JOB #<br>16-164<br>SHEET 0,1<br>2 OF 5 SHEETS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

SLOPE CONVERSION TABLE 1:10 10% 1:12 8.33% 1:15 6.67% 1:5Ø 2%



![](_page_25_Figure_2.jpeg)

![](_page_26_Figure_0.jpeg)

![](_page_27_Figure_0.jpeg)

![](_page_27_Figure_4.jpeg)

![](_page_28_Figure_0.jpeg)

![](_page_29_Figure_0.jpeg)

|                    | DEMOLITION PLAN KEY NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | <ul> <li>PI (E) CEMENT PLASTER EXTERIOR FINISH OVER (E) WALL FRAMING TO REMAN, TYP.</li> <li>P2 (E) STOREFRONT TO REMAN, TYP.</li> <li>P3 (E) STEEL COLUMN TO REMAN - 5.5.D., TYP.</li> <li>P4 (E) METALWORK ABOVE TO BE REMOVED SHORE AND SECURE REMAINING STRUCTUR REQUIRED. REFER TO STRUCTURAL FOR NEW STRUCTURAL REQUIREMENTS.</li> <li>P5 LINE OF (E) WALL ABOVE</li> <li>P6 (E) METAL PANEL ABOVE AT BREEZEWAY TO REMAIN</li> </ul> |
| SCALE: 1/4" = 1'-0 | DEMOLITION NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                    | <ol> <li>CONTRACTORS TO PROTECT EXISTING STRUCTURE, FINISHES, LANDSCAPING, PAINTING, ETC<br/>DAMAGE DURING DEMOLITION.</li> <li>WHEN REMOVING ANY BEARING WALLS, FLOOR, ETC., SHORE AND SECURE AS REQUIRED TO</li> </ol>                                                                                                                                                                                                                   |
|                    | <ul> <li>STRUCTURAL DAMAGE OCCURS. IF UNFORESEEN CIRCUMSTANCES ARISE, CONTACT ARCHITADVICE PRIOR TO DEMOLITION.</li> <li>3. ALL ITEMS INDICATED TO BE REMOVED, SHALL BE REMOVED CAREFULLY, TO INSURE NO OCCUPS. THESE ITEMS ARE TO BE STORED IN A SECURE LOCATION ON SITE PER OWNER.</li> </ul>                                                                                                                                            |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                    | E (E) CEMENT PLASTER EXTERIOR FINISH OVER (E) WALL FRAMING TO REMAN, TYP.                                                                                                                                                                                                                                                                                                                                                                  |
|                    | E2 (E) STOREFRONT TO REMAN, TYP.<br>E3 (E) METAL PANEL AT BREEZEWAY TO REMAIN                                                                                                                                                                                                                                                                                                                                                              |
|                    | E4 (E) METALWORK TO BE REMOVED<br>(N) METAL PANEL TO MATCH (E) ADJACENT PANEL AT BREEZEWAY (PROVIDED BY (                                                                                                                                                                                                                                                                                                                                  |
|                    | <ul> <li>STRUCTURAL DRAWINGS FOR PANEL SUPPORT DETAIL(S). METAL PANEL FABRICATOR<br/>SHOP DRAWINGS &amp; CALCS FOR APPROVAL.</li> <li>(N) 8"X6"X4" VERTICAL ALUM. TUBE W/ CLOSED TOP TO MATCH (E) ADJACENT AT BR<br/>PROVIDED BY METAL PANEL FABRICATOR.</li> <li>(N) 10/2011 LORIZONITAL ALUM LOUVERS &amp; 410 CC 101 (CLOSED ENDS TO MATCH (E) ADJACENT AT BR</li> </ul>                                                                |
|                    | ET       (N) I"X2" HORIZONTAL ALUM, LOUVERS # 4" O.C. W/ CLOSED ENDS TO MATCH (E) ADJ,         PROVIDED BY METAL PANEL FABRICATOR         (N) I"X3" INTERMEDIATE VERTICAL ALUM, TUBE W/ CLOSED TOP \$ 1-3/4"XI-3/4"X3/16"         SIDE FASTENED TO BACK OF TUBES \$ BOTTOM ANGLE W/ 1/4"XI" S.S. TEK SCREWS @ 2         MATCH (E) AT ADJ. BREEZEWAY                                                                                        |
|                    | (N) 3"X3"X3/I6" ALUM. ANGLE W/ ATTACHMENT PLATE EA. END AT BOTTOM OF LOUVE<br>ADJACENT AT BREEZEWAY. PROVIDED BY METAL PANEL FABRICATOR.<br>(N) METAL PANEL CONNECTION PLATE & FASTENERS AT BASE OF 8"X6" VERTICAL AL                                                                                                                                                                                                                      |
|                    | PROVIDED BY METAL PANEL FABRICATOR      EII     (N) H668X6X <sup>3</sup> / <sub>8</sub> SUPPORT ANGLE & METAL CONNECTION PLATE PER STRUCTURAL      EX     (E) ROOFING ASSEMBLY & STRUCTURE TO REMAIN TYP                                                                                                                                                                                                                                   |
|                    | EB       PATCH & REPAIR WALL TO MATCH (E) ADJ, AT ALL (E) EXTERIOR WALL PENETRATION         PROVIDE FLASHING & SEALANT AT (N) EXTERIOR WALL PENETRATIONS AS REQUIRED         WEATHER TIGHT SYSTEM                                                                                                                                                                                                                                          |
|                    | $\stackrel{=}{=} \qquad \begin{bmatrix} EI4 \\ S.S.D. FOR HSS CONNECTION TO (E) STRUCTURE \\ \\ \hline EI5 (N) SOFFIT \\ \hline \hline \\ \hline $                                                                                                                                                                                                                   |
| SCALE: 1/4" = 1'-0 | EI6       (E) CONCRETE SLAB & SIDEWALK TO REMAIN         (N) SIGNAGE ATTACHMENT RAILS: 2"X3" HORIZONTAL ALUM. TUBE FASTENED AT EA. EI         BEHIND (E) & (N) IX2 HORIZ. LOUVERS, TYP. TO BE PROVIDED BY METAL PANEL FAE         IS ADEQUATE TO SUPPORT SIGNAGE.         EI8       (N) SIGNAGE (& ATTACHMENT DETAIL) BY SIGN VENDOR.                                                                                                      |
|                    | PROPOSED PLAN KEY NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                    | P1       (E) CEMENT PLASTER EXTERIOR FINISH OVER (E) WALL FRAMING TO REMAN, TYP.         P2       (E) STOREFRONT TO REMAN, TYP.                                                                                                                                                                                                                                                                                                            |
|                    | <ul> <li>P3 (E) STEEL COLUMN TO REMAN - 5.5.D., TYP.</li> <li>P4 (N) METALWORK ABOVE TO MATCH (E) ADJACENT AT BREEZEWAY. SEE STRUCTURAL STRUCTURAL REQUIREMENTS.</li> <li>P5 LINE OF (E) WALL ABOVE</li> <li>P6 (E) METAL PANEL ABOVE AT BREEZEWAY TO REMAIN</li> </ul>                                                                                                                                                                    |
|                    | GENERAL NOTES                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SCALE: 1/4" = 1'-0 |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                    | STRUCTURAL CALCULATIONS OF PANEL SHALL BE PROVIDED PRIOR TO FABRICATION.                                                                                                                                                                                                                                                                                                                                                                   |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                    | El6                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| SCALE: 1/4" = 1'-0 | , SECTION AT SOUTH EXTERIOR WALL                                                                                                                                                                                                                                                                                                                                                                                                           |

![](_page_29_Figure_2.jpeg)

![](_page_30_Picture_2.jpeg)

#### 1. W SECTIONS: ASTM A992, GR. 50 2. HSS : ASTM A500, GRADE B. 3. HIGH STRENGTH BOLTS: ASTM A325N. 4. MACHINE BOLTS: ASTM A307.

PROCEEDING WITH THE WORK.

TO ALL SIMILAR CONDITIONS.

SERVICE DURING CONSTRUCTION.

- 5. ANCHOR BOLTS / RODS: ASTM F1554, GR. 36.

<u>GENERAL</u>

WORK.

**DESIGN BASIS** 

3. WIND LOADS:

<u>STEEL</u>

2. VERTICAL LIVE LOADS: ROOFS:

- 6. WELDING ELECTRODES: E-70XX.

- **SPECIAL INSPECTION:**
- ITEMS. SUBMIT TEST REPORTS TO THE ARCHITECT, JURISDICTION AND OWNER.

#### 1. DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO SHORING AND TEMPORARY BRACING. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO INSURE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT, ENGINEER OR CONSTRUCTION MANAGER SHALL NOT RELIEVE THE CONTRACTOR OF SUCH RESPONSIBILITY. 2. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED BEFORE

3. DO NOT USE SCALED DIMENSIONS; USE WRITTEN DIMENSIONS. WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK. 4. IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE CALLED FOR OR SHOWN. ALL DETAILS REFERENCED ONCE SHALL APPLY

5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY LICENSES AND PERMITS. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL LAWS GOVERNING THE 6. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES BEFORE BEGINNING WORK. SPECIAL CARE SHALL BE TAKEN TO PROTECT UTILITIES THAT ARE TO REMAIN IN 7. SPECIAL INSPECTION SHALL BE PROVIDED PER CALIFORNIA BUILDING CODE CHAPTER 17.

1. APPLICABLE CODE: CALIFORNIA BUILDING CODE, 2013 EDITION. 20 PSF

DESIGN WIND: 110 MPH, EXPOSURE C, I = 1.04. SEISMIC LOADS: Ss = 1.726, S<sub>1</sub> = 0.684, I = 1.0, R=3.5

SPECIAL INSPECTION SHALL BE PROVIDED PER CBC SECTION 1704 & 1707 FOR THE FOLLOWING

Scale: NTS

![](_page_30_Figure_20.jpeg)

NOTE: FRAMING SHOWN IS CONCEPTUAL IN NATURE DESIGN TO BE COMPLETED BY LOUVER CONTRACTOR

LOUVER SECTION 6

Scale: NTS

![](_page_30_Picture_24.jpeg)

2

![](_page_30_Figure_26.jpeg)

## PARTIAL ELEVATION

![](_page_30_Figure_28.jpeg)

## PARTIAL ROOF FRAMING PLAN

![](_page_30_Figure_31.jpeg)

![](_page_30_Picture_33.jpeg)

![](_page_31_Figure_0.jpeg)

# HVAC CEILING PLAN

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

![](_page_31_Figure_3.jpeg)

| ROUND ME     | ETAL PIPE                       |
|--------------|---------------------------------|
| DUCT SIZE    | MAXIMUM DESIGN<br>AIRFLOW (CFM) |
| 6"           | 100                             |
| 8"           | 250                             |
| 1 <i>0</i> " | 400                             |
| 2"           | 650                             |
| 4"           | 1000                            |
| 6"           | 1400                            |
| 18"          | 2000                            |
| 20"          | 2600                            |
| 22"          | 3100                            |
| 24"          | 4100                            |
| 26"          | 5100                            |
| 28"          | 6400                            |
|              |                                 |

ROUND METAL PIPE =. I" ON METAL DUCT CALCULATORS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | HVAC NOTES AND SPECIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| IORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |
| DP UNITS AND AIR DISTRIBUTION TO REMAIN. NEW RESTROOM<br>DWS, FITTINGS, & DUCT INSULATION.<br>DTERS, AND GRILLES<br>DYSTEMS.<br>LANCING.                                                                                                                                                                                                                                                                                                                                                                                                                                                            | p) AFTER INSTALLING WALL, CEILING, OR FLOOR INSULATION, THE INSTALLER SHALL<br>MAKE AVAILABLE TO THE ENFORCEMENT AGENCY OR POST IN A CONSPICUOUS<br>LOCATION IN THE BUILDING. A CERTIFICATE SIGNED BY THE INSTALLER STATING<br>THAT THE INTSLLATION IS CONSISTENT WITH THE PLANS AND SPECIFICTIONS<br>DESCRIBED IN SEC IO.IO3(A)2A. THE CERTIFICATE SHALL ALSO STATE THE<br>MANUFACTURER'S NAME, MATERIAL IDENTIFICATION, AND THE INSTALLED<br>R-VALUE.                                                                                                                                                                                                                                                                                                                      |    |
| PECTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | q) INSTALL DUCT INSULATION ONLY AFTER DUCTWORK HAS BEEN INSPECTED AND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |
| 1ITES & INSPECTIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | APPROVED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |
| R MUST PAY FEES AND OBTAIN PERMITS, LICENSES, INSPECTIONS,<br>QUIRED BY ANY LEGALLY CONSTITUTE AUTHORITY.<br>R SHALL NOT MAKE HIS WORK COVERED OR CLOSED UNTIL THE<br>BEEN INSPECTED AND APPROVED BY ALL AUTHORITIES HAVING<br>N. ANY EXPENSES FOR ADDITIONAL WORK DUE TO THE VIOLATION<br>QUIREMENT WILL BE PAID BY THE CONTRACTOR.                                                                                                                                                                                                                                                                | CEILINGS AND WALLS ARE FINISHED INCLUDING FINAL PAINTING. CEILING<br>MOUNTED UNITS SHALL BE INSTALLED WITH RIMS TIGHT AGAINST CEILING. WALL<br>MOUNTED UNITS SHALL BE INSTALLED AT LEAST 6 INCHES BELOW THE CEILING<br>UNLESS OTHERWISE NOTED. DAMPERS PROVIDED WITH DIFFUSERS AND<br>REGISTERS SHALL NOT BE USED FOR SYSTEM BALANCING. INSIDE OF DUCT,<br>BEHIND SEE-THROUGH REGISTERS AND GRILLES SHALL BE PAINTED BLACK.                                                                                                                                                                                                                                                                                                                                                  |    |
| EQUIREMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | s) ROUND SHEET METAL DUCTS SUSPENDED IN THE AIR SHOULD BE SUPPORTED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |
| ONDITIONS ARE BASED ON LIMITED FIELD VERIFICATION.<br>OR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL<br>O THE TENANT.<br>ACTORS SHALL REVIEW A COMPLETE SET OF CONSTRUCTION                                                                                                                                                                                                                                                                                                                                                                                                            | HANGERS AT LEAST EVERT 10 FEET. FLEXIBLE DUCTS SUSPENDED IN THE AIR<br>SHOULD BE SUPPORTED AT LEAST EVERY 4 FEET BY STRAPS THAT ARE AT<br>LEAST I-I/2" TO I-3/4" INCHES WIDE, AND THEY SHOULD NOT SAG MORE THAN I/2"<br>FOR EACH FOOT OF DISTANCE BETWEEN THE SUPPORTS. STRAPS USED ON<br>FLEXIBLE DUCTS SHOULD NOT CONSTRICT THE INNER DIAMETER OF THE DUCT OR<br>CUT THE OUTER JACKET.                                                                                                                                                                                                                                                                                                                                                                                     | SE |
| DR SHALL FAMILIARIZE HIMSELF WITH DEMOLITION RELATING TO<br>D START OF WORK. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL<br>DNDITIONS AS REQUIRED FOR INSTALLATION/CONSTRUCTION OF NEW                                                                                                                                                                                                                                                                                                                                                                                                                  | t) DUCT SLEEVES AND PREPARED OPENINGS SHALL BE PROVIDED WHERE DUCTS<br>PENETRATE FLOORS, WALLS, CEILINGS OR ROOFS, AND SHALL BE INSTALLED<br>DURING CONSTRUCTION OF THE FLOOR, WALL, CEILING OR ROOF. MECHANICAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |
| OR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL<br>DNDITIONS PRIOR TO SUBMITTING HIS BID. NO ADDITIONAL<br>TON WILL BE MADE FOR ANY EXTRAS DUE TO CONTRACTOR'S<br>VISIT THE JOBSITE AND/OR PREDETERMINE ALL EXISTING<br>BEFORE SUBMITTING HIS BID. ANY DISCREPANCIES SHALL BE<br>REPORTED TO THE ARCHITECT FOR RESOLUTION. NO EXPCEPTION.<br>OR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL<br>6, UNDERGROUND AND ABOVE GROUND PIPING AND/OR OTHER                                                                                                                                 | CONTRACTOR SHALL COORDINATE LOCATION OF ALL DUCT PENETRATIONS OF<br>STRUCTURE WITH GENERAL CONTRACTOR.<br>U) DUCT SLEEVES SHALL BE FABRICATED FROM MININUM 20 GAGE GALVANIZED<br>SHEET STEEL. SLEEVE SHALL HAVE ONE(I) INCH CLEARANCE BETWEEN THE DUCT<br>AND THE SLEEVE, OR ONE(I) INCH CLEARANCE BETWEEN THE INSULATION AND THE<br>SLEEVE FOR INSULATED DUCTS. DUCT SLEEVES EMBEDDED IN CONCRETE SHALL<br>BE CONSTRUCTED OF I/4 INCH THICK CARBON STEEL PLATE, AND SHALL BE<br>WELDED IN ACCORDANCE WITH AWS DI.I.                                                                                                                                                                                                                                                         | SE |
| NTS LOCATED ON THE PREMISES. CONTRACTOR SHALL ALSO BE<br>LE FOR ALL COSTS RELATING TO THE RELOCATION OF, DAMAGE TO,<br>ANY EXISTING UTILITY RUNS AND/OR IMPROVEMENTS WHICH ARE                                                                                                                                                                                                                                                                                                                                                                                                                      | V) DEMAND CONTROL VENTILATION DEVICES (CO2 SENSORS) SHALL BE INSTALLED<br>IN ACCORDANCE WITH CMC. 121(C)4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SE |
| AS A RESULT OF WORK IN OR AROUND THE PREMISES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SECTION 4: PRODUCTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |
| AICAL CONTRACTOR SHALL INSPECT AND RUN TEST ALL EXISTING<br>E START OF CONSTRUCTION AND INFORM THE ARCHITECT OF ANY<br>REPAIRS FOR APPROVAL IN A TIMELY MANNER TO NOT DELAY THE<br>ATE.<br>ANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY<br>IN PLACE PER BUILDING CODE REQUIREMENTS OR APPLICABLE<br>RER INSTALLATION REQUIREMENTS.<br>ACTOR SHALL INSTALL ALL EQUIPMENTS AS REQUIRED TO CONFORM<br>URE. AVOID OBSTRUCTIONS AND MAKE ALL EQUIPMENT REQUIRING<br>OF REPAIR ACCESSIBLE.                                                                                                    | <ul> <li>a) THERMOSTAT SHALL BE HONEYWELL TH42IODIOO5, INSTALLED WITH 7-DAY<br/>PROGRAMMABLE AUTO-CHANGE OVER FEATURE. MOUNTING HEIGHT IS 3 TO 4<br/>FEET ABOVE FINISHED FLOOR.</li> <li>b) ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS, INCLUDING, BUT NOT<br/>LIMITED TO, BUILDING CAVITIES, MECHANICAL CLOSETS, AIR-HANDLER BOXES<br/>AND SUPPORT PLATFORMS USED AS DUCTS OR PLENUMS, SHALL BE INSTALLED,<br/>SEALED AND INSULATED TO MEET THE REQUIREMENTS OF CHAPTER 6 OF THE<br/>CALIFORNIA MECHANICAL CODE. SUPPLY-AIR AND RETURN-AIR DUCTS<br/>CONVEYING HEATED OR COOLED AIR SHALL BE INSULATED TO A MINIMUM<br/>INSTALLED LEVEL OF R-6, UNLESS NOTED OTHERWISE. INSULATION IS NOT<br/>REQUIRED ON LINED DUCTS AND DUCTS EXPOSED TO CONDITIONED SPACE.</li> </ul> |    |
| ENT FURNISHED SHALL FIT THE SPACE AVAILABLE WITH<br>NS IN THE REQUIRED LOCATIONS AND WITH ADEQUATE SPACE FOR<br>AND SERVICING. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC<br>TE THE MANNER AND METHOD OF THE INSTALLATION WHILE THE<br>IONS AND EQUIPMENT LIST DENOTE THE TYPE AND QUALITY OF<br>AND WORKMANSHIP TO BE USED. THE DRAWINGS SHALL NOT BE<br>R EXACT MEASUREMENTS, WHERE A CONFLICT EXISTS BETWEEN THE<br>AND THE SPECIFICATIONS. THE CONTRACTOR SHALL PROMPTLY<br>ARCHITECT WHOSE DECISION SHALL BE FINAL. NO ALLOWANCE WILL<br>INSTALLS IN THIS CONNECTION ON REHALL FOR THE CONTRACTOR | <ul> <li>c) DUCT PLENUM SHALL BE GALVANIZED STEEL DUCT. ALL JOINTS, LOGITUDINAL<br/>AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK, SHALL BE<br/>SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS<br/>(ADHESIVES), MASTIC-PLUS-EMBEDDED-GABRIC SYSTEMS, OR TAPS. TAPS AND<br/>MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN<br/>ACCORDANCE WITH ULIBIA OR ULIBIB. DUCT CONNECTIONS TO FLANGES OF AIR<br/>DISTRIBUBTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY<br/>FASTENED. DUCT TAP IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS.<br/>[IECC 2003-803.2.8]</li> </ul>                                                                                                                                                              | St |
| RD OF THE CONTRACT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | d) DUCT PLENUM SHALL BE GALVANIZED STEEL DUCT. ALL JOINTS, LOGITUDINAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |
| SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE<br>PERAL, STATE AND LOCAL CODES [NFPA, UBC, UMC AND LOCAL<br>/ING JURISDUCTION].<br>ACTOR SHALL COOPERATE WITH THE OTHER TRADES SO THAT THE<br>DN OF ALL EQUIPMENT MAY BE PROPERLY COORDINATED.                                                                                                                                                                                                                                                                                                                                                | AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK, SHALL BE<br>SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS<br>(ADHESIVES), MASTIC-PLUS-EMBEDDED-GABRIC SYSTEMS, OR TAPS. TAPS AND<br>MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN<br>ACCORDANCE WITH ULIBIA OR ULIBIB. DUCT CONNECTIONS TO FLANGES OF AIR<br>DISTRIBUBTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY<br>EASTENED, DUCT TAP, IS NOT PERMITTED AS A SEAL ANT ON ANY METAL, DUCTS                                                                                                                                                                                                                                                                                         |    |
| ECT SWITCHES & LINE VOLTAGE CONNECTIONS (BY ELECTRICAL)<br>IE VOLTAGE WIRING AND CONDUIT (BY ELECTRICAL)<br>ISATE PIPING (PLUMBING)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | [IECC 2003-803.2.8]<br>() DUCT SUPPORTS AND HANGERS: PROVIDE HANGERS AND SUPPORTS OF STEEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |
| IG WORK SHALL BE PERFORMED BY OWNER'S APPROVED ROOFING<br>DR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | SHAPES AND RODS CONFORMING TO ASTM A36/A36M, GALVANIZED IN<br>ACCORDANCE WITH ASTM A123. HARWARE FOR HANGERS AND SUPPORTS SHALL<br>BE GALVANIZED IN ACCORDANCE WITH ASTM A153/A153M. HANGERS AND<br>SUPPORTS SHALL BE EABRICATED IN ACCORDANCE WITH SMACNA HAVAC DUCT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |
| FALL EQUIPMENT NOT REUSED AS A PART OF THE NEW WORK AS<br>BY THE OWNER.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, AND SMACNA HVAC DUCT<br>SYSTEMS DUCT DESIGN.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |
| ANCE AND PLUMBING VENTS AND THE DISCHARGE OUTLET OF<br>INS SHALL BE LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION, OR<br>IET ABOVE THE OUTSIDE-AIR INTAKES FOR HVAC UNITS.                                                                                                                                                                                                                                                                                                                                                                                                                          | f) BUILDING ATTACHMENT: CONCRETE INSERTS, POWER-ACTUATED FASTENERS, OR<br>STRUCTURAL STEEL FASTENERS APPROPRIATE FOR BUILDING MATERIALS. DO<br>NOT USE POWDER-ACTUATED CONCRETE FASTENERS FOR LIGHTWEIGHT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |
| EXPOSED WITHIN DUCTS OR PLENUMS SHALL NONCOMBUSTIBE OR<br>E A FLAMESPREAD RATING NOT GREATER THAN TWENTY-FIVE(25)<br><e developed="" four="" greater="" hundreds<br="" not="" rating="" than="">NHEN TESTED AS A COMPOSITE PER APPLICABLE TESTING</e>                                                                                                                                                                                                                                                                                                                                               | AGGREGATE CONCRETES OR FOR SLABS LESS THAN 4 INCHES THICK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |

![](_page_31_Figure_7.jpeg)

SCALE:NONE

![](_page_31_Figure_9.jpeg)

| FAN SCHEDULE |          |          |     |                      |       |    |       |           |                      | CF                                                                        |
|--------------|----------|----------|-----|----------------------|-------|----|-------|-----------|----------------------|---------------------------------------------------------------------------|
|              | SERVICE  | LOCATION | CFM | STATIC               |       |    | MOTOR | _         | MANUFACTURER & MODEL | OPTIONS-ACCESSORI                                                         |
| NU.          |          |          |     | PRESS.<br>(IN. W.G.) | WATTS | HP | RPM   | VOLTPHCY. |                      |                                                                           |
| EF<br>R      | RESTROOM | CEILING  | 110 | 0.1                  | 8.7   |    | 1725  | 120–1–60  | BROAN<br>XB110L      | BACK DRAFT DAMPER<br>CONTROLLED BY OCCU<br>SENSOR<br>OPER. WT. = 13.7 LBS |
| NOTES:       |          |          |     |                      |       |    |       |           |                      |                                                                           |

![](_page_31_Picture_12.jpeg)

![](_page_31_Figure_13.jpeg)

![](_page_32_Figure_0.jpeg)

![](_page_32_Figure_1.jpeg)

![](_page_32_Figure_2.jpeg)

## TYPICAL WALL CLEANOUT

SCALE:NONE

SCALE:NONE

![](_page_32_Figure_5.jpeg)

# TYPICAL VENT THROUGH ROOF

![](_page_32_Figure_7.jpeg)

MAY EXTEND AS A WASTE DR VENT

PLUGGED TEE W/CLEANDUT

- FLOOR LINE

BALANCE DF PIPING SAME AS CLEANDUT TD GRADE.

| SYMBOL | MEANING ABBR              | EVIA                 |
|--------|---------------------------|----------------------|
| CR     | CONDENSER WATER RETURN    | С.                   |
|        | DOMESTIC COLD WATER       | С.                   |
|        | DOMESTIC HOT WATER        | н.н                  |
|        | DOMESTIC H.W. CIRCULATING | н.н                  |
|        | SANITARY SEWER            | S.9                  |
|        | VENT PIPING               | <ul><li>✓.</li></ul> |
|        | STORM SEWER               | ST                   |
| G      | GAS                       | G.                   |
|        | CONNECT TO EXISTING       | P.                   |
|        | PIPE DOWN                 |                      |
| 0      | VENT THRU ROOF            | \<br>\               |
| Φ      | CLEANOUT TO GRADE         | 6                    |
|        | FLOOR CLEANOUT            | F                    |

| PLU          | MBING FIX | TURE HOT WAT               | WATER HEATER STORAGECAPACITY/SIZING |                                                        |                            |  |  |
|--------------|-----------|----------------------------|-------------------------------------|--------------------------------------------------------|----------------------------|--|--|
| FIXTURE TYPE | QTY       | UNIT HOT<br>WATER<br>(GPH) | TOTAL HOT<br>WATER (GPH)            | MINUS DISHWASHER GPH<br>GPH REMAINING<br>DEMAND FACTOR | 25<br>0<br>25<br>0.6<br>15 |  |  |
| LAVATORY     | 2         | 5                          | 10                                  | PLUS DISHWASHER GPH                                    | 0                          |  |  |
|              |           |                            |                                     | STORAGE FACTOR                                         | 0.7                        |  |  |
| MOP SINK     | Ι         | 15                         | 15                                  | MINIMUM STORAGE CAPACITY                               | 10.5                       |  |  |
| TOTAL        | . HOT WAT | ER (GPH)                   | 25                                  |                                                        |                            |  |  |
|              | ABLE FOR  | DOMESTIC HO                | DT WATER PIPING                     | FACTORS CONSIDERED FOR THIS CAN<br>ASHRAE              | _CULATION                  |  |  |
| PIPE SIZE    | <  "      | "-6"                       | 8" & LARGER                         | NT. WATER = 8.33<br>TEMP RISE (AVE) =60 DEG            |                            |  |  |
| INSULATION   | I"        | I-I/2"                     | I-I/2"                              | THERMAL EFF.: ELEC =0.98<br>IKW=3,412 BTUS             |                            |  |  |
| THICKNESS    |           |                            |                                     |                                                        |                            |  |  |

=3.735 KW

![](_page_32_Picture_16.jpeg)

![](_page_32_Picture_17.jpeg)

- 2014 EDITION. ALL HOT WATER PIPING SHALL BE INSULATED WITH ARMSTRONG "ARMAFLEX" INSULATION PER TABLE 120.3-A, SECTION 120.3 OF THE 2013 CALIFORNIA ENERGY CODE
- k) ALL CONCEALED PIPING SHALL BE INSTALLED PER CALIFORNIA PLUMBING CODE 2013. NO EXCEPTION.
- TO USE ACCORDING TO THE METHODS IN CPC 2013 609.9. NO EXCEPTION. u) THIS PROJECT MUST COMPLY WITH THE CALIFORNIA PLUMBING CODE 2013.

|             | FIXTURE SCHEDULE                          |                                  |       |       |       |               |              |                                                                                                                       |  |  |  |
|-------------|-------------------------------------------|----------------------------------|-------|-------|-------|---------------|--------------|-----------------------------------------------------------------------------------------------------------------------|--|--|--|
| ITEM        | DISCRIPTION                               | MAKE/MODEL                       | ТКАР  | MASTE | VENT  | COLD<br>WATER | HOT<br>MATER | REMARKS                                                                                                               |  |  |  |
| <u>MC-1</u> | WATER CLOSET, TANK TYPE. ADA.<br>1.28 GPF | TBD                              |       | 3"    | 2"    | 3/4"          | _            | VERIFY W/ OWNER OR ARCHITECT FOR EX<br>SPECIFICATION BEFORE PURCHASING FIXT                                           |  |  |  |
| <u>L-1</u>  | LAVATORY                                  | TBD                              | - /2" | 2"    | - /2" | 3/4"          | 3/4"         | 0.5 GPM FAUCET. VERIFY SELECTION W/ A<br>OWNER.                                                                       |  |  |  |
| <u>MH-I</u> | ELECTRIC HOT WATER HEATER                 | AO SMITH<br>DEL-15-4 OR<br>EQUAL | -     | -     | -     | 3/4"          | 3/4"         | ELECTRIC WATER HEATER, 15 GAL, 4 KM. N<br>OWNER OR ARCHITECT FOR EXACT FIXTUR<br>SPECIFICATION BEFORE PURCHASING FIXT |  |  |  |
| FD-I        | FLOOR DRAIN                               | -                                | -     | 2"    | 2"    | -             | -            | PROVIDE TRAP PRIMER.                                                                                                  |  |  |  |
| <u>MS-1</u> | MOP SINK                                  | TBD                              | - /2" | 2"    | - /2" | 3/4"          | 3/4"         | VERIFY W/ OWNER OR ARCHITECT FOR EX<br>SPECIFICATION BEFORE PURCHASING FIXT                                           |  |  |  |

# PLUMBING KEYED NOTES

LOCATE SUBMETER W/S.O.V. AT EYE LEVEL IN PLAIN VIEW AND CLEARLY LABEL FINAL LOCATION TO BE APPROVED BY MALL OPERATIONS MANAGER AT ROUGH

![](_page_32_Figure_26.jpeg)

![](_page_32_Figure_27.jpeg)

## SCOPE OF WORK

TENANT IMPROVEMENT, NEW MOP SINK, DRINKING FOUNTAINS, & RESTROOMS WITH SUPPORTING PLUMBING.

NOTE: CONTRACTOR IS TO VERIFY EXISTING CONDITIONS

BEFORE BID.

![](_page_32_Picture_31.jpeg)

|                                               |                                        |                               |                                   |                                  | LIGHTING FIXTURE SCH                                                | IEDULE                      |                                  |       |                |                      | CAUTIO                                                                                                                                                                                                                            |
|-----------------------------------------------|----------------------------------------|-------------------------------|-----------------------------------|----------------------------------|---------------------------------------------------------------------|-----------------------------|----------------------------------|-------|----------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MARK                                          | LEGEND                                 | VOLT                          | COUNT                             | MOUNT                            | DESCRIPTION                                                         | MANUFACTURER                | MODEL NUMBER                     | LAMPS | INPUT<br>WATTS | NOTES                | GMEP ENGINEERS SHALL NOT BE RESPONSIBL<br>ORDERS THAT MAY OCCUR SHOULD FINAL BI<br>THESE DOCUMENTS BE STARTED PRIOR TO E                                                                                                          |
|                                               |                                        | 120                           | 16                                | RECESSED                         | 6" LED RETROFIT                                                     | PREMIUM QUALITY<br>LIGHTING | 90908                            | LED   | 15             | OR APPROVED<br>EQUAL | ALL WORK TO COMPLY WITH THE 2013 CBC,<br>NEC) WITH STATE AND LOCAL AMENDMENTS.                                                                                                                                                    |
| B                                             | 0                                      | 120                           | NOT                               | RECESSED                         | 4" LED RETROFIT                                                     | GREEN BOY LED               | GBL-HT4RD08-LED                  |       | 8              | OR APPROVED<br>EQUAL | ALL EQUIPMENTS SHALL BE U.L. LISTED AND<br>LISTING.                                                                                                                                                                               |
|                                               |                                        | 120                           | 88                                | CEILING                          | 4' LED LINEAR TUBE LIGHT                                            | GREEN BOY LED               | GBL-4FT-2/T8-<br>DIM-LINEAR-120V | LED   | 36             | OR APPROVED<br>EQUAL | <u>CONDUCTORS:</u><br>ALL CONDUCTORS SHALL BE COPPER AS FO<br>#12 AWG AND SMALLER - SOLID, TW<br>#10 AWG AND LARGER - STRANDED, THM<br>ALL CONDUCTORS SIZES ARE BASED ON 75°<br>(NEC. 2011 TABLE 310.16)                          |
| D<br>36                                       |                                        | 120                           | 25                                | RECESSED                         | 8' LED TUBE LIGHT                                                   | GREEN BOY LED               | STRIP8/2XI8 LED                  | LED   | 36             | OR APPROVED<br>EQUAL | MOUTING HEIGHT FOR RECEPTACLES A<br>a) THE BOTTOM OF ELECTRICAL AND COMMU<br>BE USED BY THE OCCUPANT SHALL BE LOC<br>ACCESSIBITY GUIDELINES 4.27.3]                                                                               |
| (F)<br>                                       | ••••                                   | 120                           | 48FT                              | CEILING                          | LED TRACK LIGHT<br>WITH ON TRACK CURRENT LIMITER                    | ELITE LIGHTING<br>USA       | ET213-BK GIMBAL<br>RING          | LED   |                | OR APPROVED<br>EQUAL | b) RECEPTACLE OUTLETS SHALL BE LOCATED<br>ABOVE, THE COUNTERTOP. SUGGESTION HE<br>THE TOP OF SWITCHES SHALL BE INSTALLE<br>THAN 48" ABOVE THE FINISH FLOOR.                                                                       |
| (G)<br>(40)                                   | 0                                      | 120                           | 30                                | CEILING                          | HIGH BAY LED LIGHT                                                  | RENESOLA                    | RCNO40                           | LED   | 40             | OR APPROVED<br>EQUAL | THERMOSTAT CONTROLS SHALL BE LOCAT<br>THAN 48" ABOVE FINISH FLOOR LINE.<br><u>IMPORTANT BID NOTES:</u><br>a) DUE TO THE SMALL SCALE OF DRAWINGS,<br>ALL DEVICES WHICH MAYBE REQUIRED. CO<br>TO VERIEX ALL EXISTING CONDITIONS REE |
| H<br>17.5                                     | <b></b>                                | 120                           | NOT<br>USED                       | CEILING/<br>WALL                 | STOREFRONT EXTERIOR TUBE LIGHT                                      | GREEN CREATIVE<br>LIGHTING  | TITANIUM LED<br>SERIES           | LED   | 17.5           | OR APPROVED<br>EQUAL | ADDITIONAL COMPENSATION WILL BE MAD<br>FALIURE TO VISIT THE JOB SITE AND/OR F<br>CONDITIONS BEFORE SUBMITTING HIS BID.<br>b) REFER TO COMPLETE ARCHITECTURAL, ME                                                                  |
| X<br>5                                        |                                        | 120                           | NOT<br>USED                       | SURFACE                          | LED EXIT SIGN<br>WITH 90 MINUTES BATTERY PACK                       | BEST LIGHTING<br>PRODUCTS   | ELXTEU                           | LED   | 5              | OR APPROVED<br>EQUAL | DRAWINGS FOR ADDITIONAL NOTES, SPEC<br>REPORT TO ARCHITECTURE IMMEDIATELY<br>THE DRAWINGS AND INCLUDE ALL COST PE<br>BASE BID. THIS REQUIREMENT WILL BE STR<br>ORDERS WILL BE ALLOWED IF THE CONTRA<br>FUNCTION.                  |
| X2<br>5                                       |                                        | 120                           | З                                 | SURFACE                          | LED EXIT SIGN<br>WITH 90 MINUTES BATTERY PACK                       | BEST LIGHTING<br>PRODUCTS   | LEDCXTEU                         | LED   | 5              | OR APPROVED<br>EQUAL | DEMOLITION I                                                                                                                                                                                                                      |
|                                               | 8                                      | 120                           | 5                                 | CEILING                          | ADJUSTABLE OPTICS LED EMERGENCY KIT<br>WITH 90 MINUTES BATTERY PACK | BEST LIGHTING<br>PRODUCTS   | LEDR-2                           | LED   | 1              | OR APPROVED<br>EQUAL | a) THE DRAWINGS SHOW THE WORK TO BE IN<br>INSTALLATION. MAKE NECESSARY ALTERN<br>CONNECT THE EXISTING ELECTRICAL WORK<br>WORK IS DONE, THE ENTIRE ELECTRICAL II<br>COMPLETE OPERATING CONDITION.                                  |
|                                               |                                        | 120                           | NOT<br>USED                       | SURFACE                          | LED EMERGENCY LIGHT<br>WITH 90 MINUTES BATTERY PACK                 | BEST LIGHTING<br>PRODUCTS   | LEDR-I OR<br>LEDR-2              | LED   | I              | OR APPROVED<br>EQUAL | b) UNLESS SPECIFICALLY NOTED ON THE CON<br>FIXTURES, SWITCHES, CONTROLS AND OTHE<br>ARE REPLACED BY NEW AND ARE NOT INI<br>RETURNED TO THE OWNER OR BE DISPOSE                                                                    |
| <u>NOTES:</u><br>I) ∨EF<br>2) LIGI<br>3) FIXT | RIFY WITH O<br>HTING ABON<br>TURES ARE | WNER OF<br>/E FOOD<br>PROVIDI | R ARCHITE<br>OR UTEN:<br>ED BY OW | ECT BEFOR<br>SILS SHALL<br>INER. | E PURCHASING THE LIGHTING FIXTURES.<br>. BE SHAFTERPROOF.           |                             |                                  |       |                |                      | C) EXISTING MATERIAL TO REMAIN UPON CON<br>AS EXISTING. FEEDERS (CONDUIT AND WIR<br>RESPECTIVE SOURCE. ALTHOUGH NOT INDI-<br>REMOVAL OR RE-ROUTE CONDUITS AND F<br>DURING CONSTRUCTION WORK MAYBE REG                             |

|    | L                                        |
|----|------------------------------------------|
| a) | ALL EQUIPME                              |
| ь) | AUTO-RESET<br>RECESSED I<br>CEILINGS.    |
| c) | PROVIDE UL<br>CONTACT W                  |
| d) | WHEN LIGHTII<br>AN APPROVI<br>CEILING OR |
| e) | REFER TO L.<br>LIGHTING FI>              |
| f) | CONFIRM WIT<br>ANY ORDER.                |
| g) | ALL FLUORES                              |

# LIGHTING FIXTURE NOTES

IENTS MUST BE U.L. LISTED. NO EXCEPTION.

TTING THERMAL PROTECTION MUST BE PROVIDED WHEREAS INCANDESCENT LIGHTING FIXTURES ARE INSTALLED IN GYPBOARD

L LISTED THERMAL BARRIER WHEREAS LIGHTING FIXTURES IN NITH INSULATION. OR PROVIDE 3" MINIMUM CLEARANCE.

ING FIXTURES ARE INSTALLED IN FIRE RATED CEILINGS OR WALLS, /ED FIRE RESISTIVE MANNAR CONSISTANT WITH FIRE RATING OF WALLS MUST BE PROVIDED. NO EXCEPTION.

LATEST ARCHITECTRAL REFLECTED CEILING PLAN FOR EXACT XTURE LOCATIONS.

TH ARCHITECTURE FOR LIGHTING FIXTURE SPECIFICATIONS PRIOR TO . NO EXCEPTION.

SCENT LIGHTING FIXTURES MUST BE EQUIPPED WITH INTERNAL SWITCH TO DISCONNECT ALL CONDUCTORS TO BALLAST FROM THE SOURCE SIMULTANEOUSLY, INCLUDING THE GROUNDED CONDUCTOR IF ANY.

## ELECTRICAL WIRING METHODS

- a) FOR UNDERGROUND AND EXPOSED UP TO +5'-0", OR DAMP LOCATION. THE CONDUIT SHALL BE RIGID STELL GALVANIZED IMC. NO RUNNING THREADS ARE PERMITTED.
- b) GALVANIZED EMT SHALL BE USED IN DRY CONCEALED LOCATIONS AND EXPOSED ABOVE +5'-O". EMT CONNECTORS SHALL BE WATERTIGHT COMPRESSION TYPE.
- c) GALVANIZED FLEXIBLE CONDUIT SHALL BE USED ONLY FOR MOTOR AND FIXTURE CONNECTIONS IN LENGTHS NOT TO EXCEED 6'.
- d) CONDUITS PENETRATING THE ROOF SHALL BE FLASHED AND COUNTER FLASHED. e) PVC SCHEDULE 40 MAY BE USED UNDER FLOOR SLABS OR UNDERGROUND WITH
- GROUND WIRE. PVC UNDERGROUND TO HAVE 24 INCH COVER. F) SERVICE CONDUITS SHALL BE PVC SCHEDULE 40 OR AS SPECIFIED BY UTILITY
- COMPANIES. a) INSTALL FITTINGS, SPECIAL DEVICES AND MATERIAL, WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE CONDUIT SYSTEM.
- h) REFER TO NEC 300.5 FOR UNDERGROUND INSTALLATION REQUIREMENTS AND DETAILS; NEC 300.6 FOR CORROSION AND DETERIORATION AREAS.

# SCOPE OR WORK

MAIN SCOPE OF WORK IS TO RELOCATE THE 400AMP 120/208V EXISTING ELECTRICAL SERVICES STUB FED FROM MALL DISTRIBUTION SWITCHGEAR INTO THE TENANT SPACE AND PROVIDE ELECTRICAL WORK FROM WHAT IS DENOTED ON PLANS.

- SCOPE OF WORK FOR SPACE PERTAINS TO THE FOLLOWING: RELOCATE EXISTING 400AMP PANEL '4C' AND 225AMP PANEL '4CB' 1.1. FOR NEW TENANT NEEDS PER ELECTRICAL PLANS.
- 1.2. PROVIDE NEW PANEL 'L' PER ELECTRICAL PLANS. 1.3. ALL AC UNITS ARE EXISTING TO REMAIN. PROVIDE ELECTRICAL POWER TO NEW FANS, WATER HEATER, LIGHTING 1.4.
- FIXTURES AND FIXTURES FOR NEW TENANT NEEDS PER ELECTRICAL PLAN.

SINGLE LINE DIAGRAM IS BASED ON LIMITED INFORMATION GIVEN. VERIFY IN FIELD BEFORE ISSUING ANY BID. NOTIFY THE ENGINEER IMMEDIATELY IF ANY MAJOR DISCREPANCIES OCCUR. NO COMPENSATION WILL BE MADE AFTER BID. NO EXCEPTIONS.

- CODES.

## CAUTIONS

GMEP ENGINEERS SHALL NOT BE RESPONSIBLE FOR ANY ELECTRICAL CHANGE ORDERS THAT MAY OCCUR SHOULD FINAL BIDS AND/OR CONSTRUCTION BASED ON THESE DOCUMENTS BE STARTED PRIOR TO ELECTRICAL PLAN CHECK APPROVAL. ALL WORK TO COMPLY WITH THE 2013 CBC, CPC AND CMC AND THE 2013 CEC (2011

ALL EQUIPMENTS SHALL BE U.L. LISTED AND INSTALLED ACCORDING TO THE LISTING.

## CONDUCTORS:

ALL CONDUCTORS SHALL BE COPPER AS FOLLOWS:

#12 AWG AND SMALLER - SOLID, TW #10 AWG AND LARGER - STRANDED, THWN, THHN OR XHHW

ALL CONDUCTORS SIZES ARE BASED ON 75°C TEMPERATURE RATING (NEC. 2011 TABLE 310.16)

MOUTING HEIGHT FOR RECEPTACLES AND CONTROL DEVICES: a) THE BOTTOM OF ELECTRICAL AND COMMUNICATION RECEPTACLES INTENDED TO BE USED BY THE OCCUPANT SHALL BE LOCATED NO LESS THAN 15". [ADA ACCESSIBITY GUIDELINES 4.27.3]

b) RECEPTACLE OUTLETS SHALL BE LOCATED ABOVE, BUT NOT MORE THAN 20 IN. ABOVE, THE COUNTERTOP. SUGGESTION HEIGHT IS 6" [NEC 210.52.C(5)] THE TOP OF SWITCHES SHALL BE INSTALLED NOT LESS THAN 36" NOR MORE THAN 48" ABOVE THE FINISH FLOOR.

THERMOSTAT CONTROLS SHALL BE LOCATED NOT LESS THAN 36" NOR MORE THAN 48" ABOVE FINISH FLOOR LINE.

## IMPORTANT BID NOTES:

a) DUE TO THE SMALL SCALE OF DRAWINGS, IT IS NOT ALWAYS POSSIBLE TO SHOW ALL DEVICES WHICH MAYBE REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID. NO ADDITIONAL COMPENSATION WILL BE MADE FOR EXTRA DUE TO CONTRACTOR'S FALIURE TO VISIT THE JOB SITE AND/OR FAILURE TO DETERMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID.

b) REFER TO COMPLETE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL NOTES, SPECIFICATIONS, DETAILS, CONTROLS, ETC. REPORT TO ARCHITECTURE IMMEDIATELY IF ANY CONFLICTS OCCUR BETWEEN THE DRAWINGS AND INCLUDE ALL COST PER ARCHITECTURE'S CLARIFICATION IN BASE BID. THIS REQUIREMENT WILL BE STRICTLY ENFORCED. NO CHANGE ORDERS WILL BE ALLOWED IF THE CONTRACTOR FAILS TO PERFORM THIS FUNCTION.

## **DEMOLITION NOTES**

a) THE DRAWINGS SHOW THE WORK TO BE IN PLACE AT THE COMPLETION OF INSTALLATION. MAKE NECESSARY ALTERNATIONS TO COORDINATE AND CONNECT THE EXISTING ELECTRICAL WORK WITH THE NEW SUCH THAT, WHEN THE WORK IS DONE, THE ENTIRE ELECTRICAL INSTALLATION, EXISTING AND NEW, IS IN COMPLETE OPERATING CONDITION.

b) UNLESS SPECIFICALLY NOTED ON THE CONTRARY, ALL EXISTING LIGHTING FIXTURES, SWITCHES, CONTROLS AND OTHER MATERIALS OR EQUIPMENTS WHICH ARE REPLACED BY NEW AND ARE NOT INDICATED TO BE REUSED SHALL BE RETURNED TO THE OWNER OR BE DISPOSED AS DIRECTED BY THE OWNER.

C) EXISTING MATERIAL TO REMAIN UPON COMPLETION IS INDICATED ON DRAWINGS AS EXISTING. FEEDERS (CONDUIT AND WIRES) ARE EXISTING TO THEIR RESPECTIVE SOURCE. ALTHOUGH NOT INDICATED ON THE DRAWINGS, TEMPORARY REMOVAL OR RE-ROUTE CONDUITS AND REPLACE EXISTING WIRES WITH NEW DURING CONSTRUCTION WORK MAYBE REQUIRED.

d) PROVIDE AND INSTALL NEW COVER PLATES FOR ALL REMOVED OUTLETS, SWITCHES, LIGHT FIXTURES, AND OTHER ELECTRICAL DEVICES WHEN THE OUTLET BOX IS TO REMAIN.

e) REMOVE ALL EXISTING ABANDONED FEEDERS (CONDUITS AND WIRES) BACK TO PANEL BOARDS. LABEL NEW PANEL DIRECTORY AS "SPARE".

MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC., FED BY ABANDONED OUTLET. THEY SHOULD BE IN OPERATION AFTER THE WORK IS DONE. MAINTAINING CONTINUITY SHALL CONSIST OF RE-ROUTING OF CONDUIT AND WIRING, AS REQUIRED TO SUIT THE EXISTING CONDITIONS.

) DASHED J-BOX DENOTES APPROXIMATE LOCATION OF EXISTING BOXES IN ACCESSIBLE CEILING SPACE. ALL CONDUIT SHOWN FROM J-BOX IS NEW UNLESS SHOWN OTHERWISE AS DASHED. REFER TO ELECTRICAL SYMBOL LIST.

h) EXISTING LOADS SHOWN ON PANEL SCHEDULES ARE BASED ON ASSUMPTIONS MADE BY FIELD VISIT, ELECTRICAL BILLS OR PUBLIC RESOURCES. NOTIFY ENGINEER IMMEDIATELY IF LOADS EXCEED 16 AMPS ON ANY 20A/IP CIRCUIT. NO EXCEPTION.

CAREFULLY REVIEW ARCHITECT'S DEMO DRAWINGS FOR LOCATION OF WALLS BEING REMOVED UNDER THIS SCOPE OF THIS WORK AND REMOVE ALL FEEDERS (CONDUITS AND WIRES) BACK TO LAST DEVICE LEFT IN SERVICE. DO NOT LEAVE ABANDONED.

CAREFULLY REVIEW ARCHITECT'S DEMO DRAWINGS FOR EXISTING FLOOR BOXES BEING REMOVED UNDER THIS SCOPE OF WORK. REMOVE FLOOR BOXES AND ALL FEEDERS (CONDUITS AND WIRES) BACK TO LAST DEVICE LEFT IN SERVICE. DO NOT LEAVE ABANDONED.

# GENERAL ELECTRICAL NOTES

a) VERIFY IN FIELD. ADJUST THE LOCATIONS OF HOMERUNS AND CIRCUIT NUMBERS ACCORDING TO EXISTING CONDITIONS IF NEEDED. COMMUNICATE WITH ENGINEER IF DESIGN SHOULD BE ALTERNATED. NO EXCEPTION.

b) IDENTIFY ANY OBVIOUS EXISTING CODE VIOLATIONS THAT OCCURS AS AN EXISTING CONDITION AND PROVIDE SEPARATE PRICING TO CORRECT THE CONDITION SO THAT IN THE END, THE ENTIRE ELECTRICAL INSTALLATION COMPLIES WITH THE NATIONAL ELECTRICAL CODE AND ALL OTHER LOCAL

C) IF THERE IS ANY DEVIATION FROM THE CIRCUITRY SHOWN, PROVIDE AS-BUILT DRAWINGS INDICATING SUCH.

) AT THE COMPLETION OF CONSTRUCTION WORK, AND PRIOR TO THE FINAL REVIEW BY THE ARCHITECT, PROVIDE PANEL DIRECTORIES IN PANELBOARD FRONTS REFLECTING ALL CHANGES MADE DURING CONSTRUCTION.

## ELECTRICAL SYMBOL LIST DESCRIPTION

| SYMBOL              | DESCRIPTION                                                                                                                                                                      |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SECTION I. S        | SYMBOLS FOR CONDUITS                                                                                                                                                             |
| ←                   | HOMERUN TO PANEL OR EQUIPMENT AS NOTED                                                                                                                                           |
|                     | CONDUIT RUN CONCEALED IN WALL OR ABOVE FINISHED CEILING OR AS NOTED<br>BRANCH CIRCUIT, 2#12 IN 1/2" CONDUIT OR AS NOTED OR SYMBOLIZED AS:<br>1/2"C3 #12 3/4"C6 #12<br>3/4"C7 #12 |
|                     |                                                                                                                                                                                  |
|                     | CONDUIT IN OR UNDER SURFACE AS NOTED, 3/4" MINIMUM SIZE.                                                                                                                         |
| <u>-</u> 5          | CONDUIT RUN WITH EQUIPMENT GROUNDING CONDUCTOR, SAME SIZE AS CIRCUIT<br>CONDUCTORS, OR AS NOTED.                                                                                 |
| -J <sub>IG</sub>    | CONDUIT RUN WITH <u>ISOLATED</u> GROUNDING CONDUCTOR, SAME SIZE AS CIRCUIT<br>CONDUCTORS, OR AS NOTED.                                                                           |
| EM                  | CONDUIT WITH EMERGENCY CIRCUIT                                                                                                                                                   |
| ×                   | EXISTING CONDUIT TO REMAIN.                                                                                                                                                      |
| —R —                | EXISTING CONDUIT TO BE REMOVED.                                                                                                                                                  |
| SECTION 2. E        | EQUIPMENTS                                                                                                                                                                       |
|                     | ELECTRICAL PANELBOARD, FLUSH OR SURFACE MOUNTED AS INDICATED<br>LETTERED BALLOON INDICATES DESIGNATION                                                                           |
|                     | JUNCTION BOX, ABOVE CEILING, OR AS REQUIRED TO SUIT THE APPLICATION                                                                                                              |
| Ĺ)                  | APPROXIMATE LOCATION OF EXISTING J-BOX IN ACCESSIBLE CEILING SPACE                                                                                                               |
| Ø                   | J-BOX MOUNTED TO UNDERSIDE FACE OF SLAB BELOW                                                                                                                                    |
|                     | TELEPHONE OUTLET IN WALL, +18" OR AS NOTED SINGLE GANG OUTLET BOX<br>WITH 3/4" CONDUIT AND PULL WIRE TO ACCESSIBLE CEILING SPACE.                                                |
| $\bigtriangleup$    | DATA OUTLET IN WALL +18" OR AS NOTED. SINGLE GANG OUTLET BOX<br>WITH 3/4" CONDUIT AND PULL WIRE TO ACCESSIBLE CEILING SPACE.                                                     |
| Δ                   | COMBINATION TELE/DATA OUTLET BOX, +18" OR AS NOTED. SINGLE GANG<br>OUTLET WITH 3/4" CONDUIT AND PULL WIRE TO ACCESSIBLE CEILING SPACE.                                           |
|                     | WALL MOUNTED 2 HOUR BY PASS TIMER (TORK #A500 SERIES)                                                                                                                            |
| C                   | FUSED DISCONNECT SWITCH, SIZE AND FUSED AS NOTED ON PLAN                                                                                                                         |
| \$                  | SINGLE POLE SWITCH, +42" OR AS NOTED                                                                                                                                             |
| HD                  | WALL MOUNTED DIMMER, 1000 WATT RATING OR AS NOTED.<br>HEIGHTMOUNTING +42" A.F.F. OR AS NOTED.                                                                                    |
| HD <sub>O.S.</sub>  | WALL MOUNTED DIMMER INTEGRATED W/MOTION SENSOR, 1000 WATT RATING<br>OR AS NOTED. HEIGHTMOUNTING +42" A.F.F. OR AS NOTED.<br>MANUFACTURE & MODEL: LIGHTHAWK2 LHD-IRS              |
| SECTION 3. F        | RECEPTACLES                                                                                                                                                                      |
| $\boxtimes$         | DUPLEX RECEPTACLE FLUSH IN FLOOR BOX WITH DUPLEX HINGE COVERS                                                                                                                    |
| €                   | DUPLEX RECEPTACLE IN WALL 120V, 20AMPS, +18" A.F.F, 3" ABOVE COUNTER OR AS NOTED.                                                                                                |
| <b>\</b>            | TWO-GANG DUPLEX RECEPTACLE (QUADPLEX) IN WALL, +18" A.F.F OR AS NOTED                                                                                                            |
|                     | GFI DUPLEX RECEPTACLE IN WALL, +42" A.F.F OR AS NOTED                                                                                                                            |
| <del>.</del>        | DUPLEX RECEPTACLE (20 AMP) +18" OR AS NOTED (ON A SEPARATE CIRCUIT)                                                                                                              |
| €                   | SPECIAL RECEPTACLE NEMA TYPE AS DESIGNATED, +18" OR AS NOTED                                                                                                                     |
| $\nabla \mathbf{v}$ | FLUSH POKE THRU COMBINATION TELE/DATA AND DUPLEX                                                                                                                                 |
| Ð                   | DUPLEX PLUG RECEPTACLE, 120V, 20A, SHADED SIDE INDICATES "ISOLATED<br>GROUND" TYPE DUPLEX ECEPTACLE. 18"A.F.F, 3" ABOVE COUNTER OR AS<br>NOTED, DEVICE TO BE "ORANGE" IN COLOR.  |
| SECTION 4. 9        | BENSORS                                                                                                                                                                          |
|                     | CEILING MOUNTED ONE WAY MOTION SENSOR WITH SWITCH PACK<br>(THE WATT STOPPER CX-100); COVERAGE UP TO 2000 S.F.                                                                    |
|                     | CEILING MOUNTED TWO WAY MOTION SENSOR WITH SWITCH PACK                                                                                                                           |
|                     | (THE WATT STOPPER UT-300-2); COVERAGE UP TO 1000 SQ. FT.                                                                                                                         |
| ••• <sup>D</sup>    | CEILING MOUNTED DUAL TECHTWO WAY MOTION SENSOR WITH SWITCH PACK                                                                                                                  |
|                     | CEILING MOUNTED TWO WAY CORRIDOR MOTION SENSOR WITH SWITCH PACK                                                                                                                  |
| <b>O</b>            | WALL MOUNTED MOTION SENSOR (THE WATT STOPPER "WA-300").                                                                                                                          |
| SECTION 5.1         | MISCELLANEOUS                                                                                                                                                                    |
| • UP                | CONDUIT STUBBED UP                                                                                                                                                               |
| ° DN                | CONDUIT STUBBED DOWN                                                                                                                                                             |
| (E)                 | DENOTES EXISTING TO REMAIN                                                                                                                                                       |
| (N)                 | DENOTES NEW TO MATCH EXISTING                                                                                                                                                    |
| (R)                 | DENOTES EXISTING RELOCATED DEVICE AT NEW LOCATION                                                                                                                                |
| (ER)                | DENOTES EXISTING DEVICE TO BE RELOCATED                                                                                                                                          |
|                     |                                                                                                                                                                                  |

(EM) DENOTES EMERGENCY LIGHT FIXTURE AND SHALL BE EQUIPPED WITH 90 MINUTE BATTERY PACK, ONLESS NOTED OTHERWISE.

![](_page_33_Picture_66.jpeg)

![](_page_33_Figure_67.jpeg)

![](_page_34_Figure_0.jpeg)

![](_page_34_Figure_1.jpeg)

![](_page_34_Figure_2.jpeg)

![](_page_34_Figure_3.jpeg)

![](_page_34_Figure_4.jpeg)

## (RELOCATED PANEL)

|        | <u> </u>          | ,           |               |            |            |          |             |      |            |              |               |             |     |            |         |          |          |      |              |        |        |
|--------|-------------------|-------------|---------------|------------|------------|----------|-------------|------|------------|--------------|---------------|-------------|-----|------------|---------|----------|----------|------|--------------|--------|--------|
|        |                   |             |               | ICATIO     | N          | ST       | OR/         | AGE  | ROC        | ОМ           |               |             |     | יווס       | с с     | λТ       |          | 100  | אר           | 120/   | ⁄208 ∖ |
|        | FANEL 40          |             | MA            | IN (AM     | <u>(P)</u> | М        | .L.C        | ).   |            |              |               |             |     | יטם,       | י כ<br> | . A I .  |          | 400  |              | MOUN   | TING:  |
|        | ΝΕςΩΡΤΙΠΝ         | V[          | <u>ILT AN</u> | <u>1PS</u> | L  <br>  T | R<br>E   | M<br>  I    | BKR  | CKT        |              | BUS           | <u>}</u>    | СКТ | BKR        | M<br>I  | R<br>  E | L<br>  T |      | <u>LT AM</u> | PS     | DF     |
|        |                   | <u> </u>    | ØВ            |            | G          | C        | S           |      |            | ЦИА          | <u>1   1</u>  | <u>в Ис</u> |     | 5          | S       | <u> </u> | G        | ИА 🛛 | ИВ           | ØC     |        |
|        | (E)AC-1(3Ton)     | 3363        |               |            |            |          |             | 35/  | 1          | -•           |               | +           | 2   | 150/       |         |          |          | 4804 |              |        | (E)AC- |
|        |                   |             | 3363          |            |            |          |             |      | 3          | +            | -+            |             | 4   |            |         |          |          |      | 4804         |        |        |
| h<br>ط |                   |             |               | 3363       |            |          |             | / 3  | 5          | +            |               | -+          | 6   | / 3        |         |          |          |      |              | 4804   |        |
| Ÿ      | (E)AC-2(4Ton)     | 2402        |               |            |            |          |             | 25/  | 17         | <b>│</b> - ♦ |               |             | 8   | 50/        |         |          |          | 2504 |              |        | (N)SUI |
|        |                   |             | 2402          |            |            |          |             |      | 9          | ] +          | -+            | -           | 10  |            |         |          |          |      | 2624         |        |        |
|        |                   |             |               | 2402       |            |          |             | / 3  | 11         | +            | _             | -+          | 12  | / 3        |         |          |          |      |              | 2880   |        |
|        | SPARE             |             |               |            |            |          |             | 20-1 | 13         | ] -∳         | $\rightarrow$ | —           | 14  | 20-1       |         |          |          |      |              |        | SPARE  |
|        | SPARE             |             |               |            |            |          |             | 20-1 | 15         | ] +          | -+            | -           | 16  | 20-1       |         |          |          |      |              |        | SPARE  |
|        | SPARE             |             |               |            |            |          |             | 20-1 | 17         | 1+           |               | _+          | 18  | 20-1       |         |          |          |      |              |        | SPARE  |
|        | SPARE             |             |               |            |            |          |             | 20-1 | 19         | ] -∳         | -             | —           | 20  | 25/        | 1       |          |          | 2000 |              |        | WATER  |
|        | SPARE             |             |               |            |            |          |             | 20-1 | 21         | 1 +          | _∳            | -           | 22  | 2          |         |          |          |      | 2000         |        |        |
|        | SPARE             |             |               |            |            |          |             | 20-1 | 23         | 14           |               | _           | 24  | 35/        |         |          |          |      |              | 3640   | (E)AC- |
|        | SPARE             |             |               |            |            |          |             | 20-1 | 25         | i _∳         |               |             | 26  | 2          |         |          |          | 3640 |              |        |        |
|        | SPARE             |             |               |            |            |          |             | 20-1 | 27         | 1 🕂          | _             |             | 28  | 70/        |         |          |          |      | 7280         |        | (E)AC- |
|        | SPARE             |             |               |            |            |          |             | 20-1 | 29         | 14           |               | _           | 30  | $\sqrt{2}$ |         |          |          |      |              | 7280   |        |
| Τ      | (E)ROOF RECEPT    | 360         |               |            |            |          |             | 20-1 | 31         | İ -♦         | -             |             | 32  | 20-1       |         |          |          |      |              |        | SPARE  |
|        | (E)ROOF RECEPT    |             | 360           |            |            |          |             | 20-1 | 33         | 1+           | _ቀ            | -           | 34  | 20-1       |         |          |          |      |              |        | SPARE  |
| Å      | SPARE             |             |               |            |            |          |             | 20-1 | 35         | 1+           |               | _∳          | 36  | 20-1       |         |          |          |      |              |        | SPARE  |
| Ŷ      | (R)SUBPANEL '4CB' | 3600        |               |            |            |          |             | 60 / | 37         | Ì -♦         | -             | _           | 38  | 20-1       |         |          |          |      |              |        | SPARE  |
|        |                   |             | 3380          |            |            |          |             | /    | 39         | 14           | _             | _           | 40  | 20-1       |         |          |          |      |              |        | SPARE  |
|        |                   |             |               | 3620       |            |          |             | / 3  | 41         | 14           |               | _           | 42  |            |         |          |          |      |              |        | SPACE  |
|        | SUB-TOTAL         |             |               | ØA=        | 226        | 573      | VA          | Å    |            | <u> </u>     | ØĒ            | 3 = 2       | 262 | 13 V       | A       | •        |          |      |              | ØC = 2 | 27989  |
|        |                   | /^ _        | 76            | 075        |            | חדר      | ۰ <u>۰</u>  |      |            |              |               |             |     |            |         |          |          |      |              |        |        |
|        | LUNNEULED V       | <u>/A –</u> | /0            | 015        |            | 115      | <u>. 3;</u> |      | <u>с г</u> | -            | -TIN          |             |     |            |         | - 1/     |          |      |              |        |        |
|        |                   | 412 =       | 18            |            | $\vdash$   | <u>ר</u> |             | NUTE | . <u>.</u> |              |               |             |     | ,011       | ואם     | LAK      | ΓK       |      | _MAIN;       | ALL (  | JINERS |
|        | LIDIAL UIHEK LUAU | =           |               |            |            |          | 10          | MAT  | CH         | ΕX           | IST           | ING         | •   |            |         |          |          |      |              |        |        |
|        | LANEL LUAU        | =           | 80.5          | KVA        |            |          |             |      |            |              |               |             |     |            |         |          |          |      |              |        |        |
|        | IFFFUFR AMPN      | =           | - 24.         | 5.3A       | 1          |          |             |      |            |              |               |             |     |            |         |          |          |      |              |        |        |

## (RELOCATED SUBPANEL)

|   |                    | ) <sup>,</sup> |               | CATIO      | N   | ST                       | OR/      | AGE  | ROO | DM   |           |            |      | זוות | , n    | <u>лт</u> |     | 0.5   |        | 120,      | /208 v |
|---|--------------------|----------------|---------------|------------|-----|--------------------------|----------|------|-----|------|-----------|------------|------|------|--------|-----------|-----|-------|--------|-----------|--------|
|   | PANEL 40E          | 5              | MA            | IN (AM     | 1P) | М                        | .L.C     | ).   |     |      |           |            |      | ROC  | 2 K    | AI.       | ING | 250   | JA     | MOUN      | TING:  |
|   | ΠΕζΩΡΙΡΤΙΠΝ        | V              | <u>ILT AN</u> | <u>IPS</u> | Ļ   | R                        | M<br>  I | RKR  | СКТ | BL   | JS        | ,          | СКТ  | BKR  | M<br>I | R         | L   | VD    | LT AM  | <u>PS</u> |        |
| _ |                    | ØA             | Ø₿            | ØC         | Ġ   | Ē                        | Š        |      |     | ØA   | ØB Ø      | <u>1C</u>  | ND   |      | Š      | Ē         | Ġ   | ØA    | ØB     | ØC        |        |
|   | SPEAKERS 1         | 200            |               |            |     |                          |          | 20-1 | 1   | ┿-   | -         | F          | 2    | 20-1 |        |           |     | 600   |        |           | SHOW   |
|   | CEILING BATTERN    |                | 200           |            |     |                          |          | 20-1 | 3   | +-   | <b>†</b>  | +          | 4    | 20-1 |        |           |     |       | 600    |           | SHOW   |
|   | SPEAKERS 2         |                |               | 200        |     |                          |          | 20-1 | 5   | +-   | $+ \cdot$ | <b>•</b> - | 6    | 20-1 |        |           |     |       |        | 600       | SHOW   |
|   | TV                 | 400            |               |            |     |                          |          | 20-1 | 7   | │ -✦ | -         | ┢          | 8    | 20-1 |        |           |     | 600   |        |           | SHOW   |
|   | BACK CASH WRAP     |                | 360           |            |     |                          |          | 20-1 | 9   | +-   | +         | +          | 10   | 20-1 |        |           |     |       | 600    |           | SHOW   |
| 1 | FRONT CASH WRAP    |                |               | 720        |     |                          |          | 20-1 | 11  |      | +         | <b>•</b> - | 12   | 20-1 |        |           |     |       |        | 600       | SHOW   |
|   | BOH CONV REC       | 720            |               |            |     |                          |          | 20-1 | 13  | -♦   | -         | ┢          | 14   | 20-1 |        |           |     | 600   |        |           | SHOW   |
|   | SALES CONV REC     |                | 540           |            |     |                          |          | 20-1 | 15  |      | +         | ┢          | 16   | 20-1 |        |           |     |       | 600    |           | SHOW   |
|   | VESTIBULE REC      |                |               | 180        |     |                          |          | 20-1 | 17  |      | +         | <b>•</b> - | 18   | 20-1 |        |           |     |       |        | 600       | SHOW   |
|   | BACK DOOR REC      | 180            |               |            |     |                          |          | 20-1 | 19  | │ -✦ | -         | ┢          | 20   | 20-1 |        |           |     |       |        |           | SPARE  |
|   | INDOOR SIGN        |                | 180           |            |     |                          |          | 20-1 | 21  | +    | <b>-</b>  | $\vdash$   | 22   |      |        |           |     |       |        |           | SPARE  |
|   | STOREFRONT DISPLAY |                |               | 720        |     |                          |          | 20-1 | 23  | +    | +-•       | <b>•</b> - | 24   |      |        |           |     |       |        |           | SPACE  |
|   | STOREFRONT HORN 1  | 300            |               |            |     |                          |          | 20-1 | 25  | -✦   | -         | +          | 26   |      |        |           |     |       |        |           | SPACE  |
|   | STOREFRONT HORN 2  |                | 300           |            |     |                          |          | 20-1 | 27  | +    | <b>+</b>  | ┢          | 28   |      |        |           |     |       |        |           | SPACE  |
|   | SPACE              |                |               |            |     |                          |          |      | 29  |      |           | ┣          | 30   |      |        |           |     |       |        |           | SPACE  |
|   | SUB-TOTAL          |                |               | ØΆ=        | 360 | 00                       | VA       |      |     | Į    | 1B =      | 3          | 380  | ) VA |        |           |     |       |        | ØC = 3    | 3620 V |
|   | TOTAL CONNECTED V  | 'A =           | 10            | 600        | N   | JTE                      | S:       |      |     |      |           |            |      |      |        |           |     |       |        |           |        |
|   | LCL @ 125 %        | 0 =            |               | 0          |     | $\underline{\mathbb{D}}$ | DEI      | NOTE | S E | XIST | ING       | ; (        | CIRC | UIT  | BRE    | EAK       | ER  | TO RE | EMAIN; | ALL       | OTHERS |
|   | TOTAL OTHER LOAD   | =              |               | 0          |     |                          | TO       | MAT  | СН  | EXIS | STIN      | IG.        |      |      |        |           |     |       |        |           |        |
|   | PANEL LOAD         | =              | 10.6          | KVA        |     |                          |          |      |     |      |           |            |      |      |        |           |     |       |        |           |        |
|   | FEEDER AMPS        | =              | 30            | ).2A       |     |                          |          |      |     |      |           |            |      |      |        |           |     |       |        |           |        |

## (NEW SUBPANEL)

| PANEL 'L'                                                          |                       |        | CATIO                | N<br>1P)  | ST<br>M     | OR.             | AGE  | ROC       | ОМ       |            |     |           | BUS  | S R         | AT:         | [NG         | 50A  | 4           | 120,<br>MILIN | /208 V<br>TING: ≤ |
|--------------------------------------------------------------------|-----------------------|--------|----------------------|-----------|-------------|-----------------|------|-----------|----------|------------|-----|-----------|------|-------------|-------------|-------------|------|-------------|---------------|-------------------|
| DESCRIPTION                                                        |                       | JLT AN | IPS<br>IPS           |           | R<br>E<br>C | MIS             | BKR  | CKT<br>ND | BI<br>ØA | JS<br>Ør Ø | íc. | CKT<br>ND | BKR  | M<br>I<br>S | R<br>E<br>C | L<br>T<br>G |      | LT AM<br>Ør | PS<br>ØC      | DES               |
| TRACK LIGHT 1                                                      | 360                   |        | <u>д</u> о           | -         | -           |                 | 20-1 | 1         | -        |            | -   | 2         | 20-1 | -           | -           | _           | 1080 |             |               | STORAG            |
| TRACK LIGHT 2                                                      |                       | 360    |                      |           |             |                 | 20-1 | 3         | 1+       | ┥┤         | - [ | 4         | 20-1 |             |             |             |      | 1200        |               | HIGH E            |
| SALES FRONT LTG                                                    |                       |        | 816                  |           |             |                 | 20-1 | 5         | 1+       | + •        | ⊢ [ | 6         | 20-1 |             |             |             |      |             | 864           | SALES             |
| SALES LIGHT 1                                                      | 864                   |        |                      |           |             |                 | 20-1 | 7         | ]        |            | - [ | 8         | 20-1 |             |             |             | 200  |             |               | EXTERI            |
| SALES LIGHT 2                                                      |                       | 864    |                      |           |             |                 | 20-1 | 9         | ] +-     | ┥┤         | - [ | 10        | 20-1 |             |             |             |      | 200         |               | TIME C            |
| SPARE                                                              |                       |        |                      |           |             |                 | 20-1 | 11        | 1+       | +-•        | ► [ | 12        | 20-1 |             |             |             |      |             | 1200          | SIGNAG            |
| SUB-TOTAL                                                          |                       |        | ØA=                  | 250       | )4          | VA              |      |           | Į        | 7B =       | 26  | 624       | - VA |             |             |             |      |             | ØC = 2        | 2880 VA           |
| TOTAL CONNECTED \<br>LCL @ 125 %<br>TOTAL OTHER LOAD<br>PANEL LOAD | /A =<br>0 =<br>=<br>= | 800    | 8VA<br>0<br>0<br>KVA | NI<br>  ( | ITE<br>D    | <u>S:</u><br>42 | KAIC | SEI       | RIES     | RA         | TEI | D.        |      |             |             |             |      |             |               |                   |
| FEEDER AMPS                                                        | =                     | 2      | 4 A                  |           |             |                 |      |           |          |            |     |           |      |             |             |             |      |             |               |                   |

# 26439 Rancho Pkwy. S., Ste 120 Lake Forest, CA 92630 Tel: 949-267-9095

![](_page_34_Figure_25.jpeg)

![](_page_34_Figure_26.jpeg)

## ELECTRICAL POWER KEYED NOTES

PROVIDE QUAD OUTLET FOR SHOW WALL AT +16"AFF. WIRING THROUGH TIME CLOCK. REFER TO E-1.1 FOR DETAIL.

PROVIDE QUAD OUTLET FOR SHOW WALL AT +11'6"AFF. WIRING THROUGH TIME CLOCK. REFER TO E-1.1 FOR DETAIL PROVIDE QUAD OUTLET FOR STORE FRONT DISPLAY AT +2"AFF, OR AT FLOOR LEVEL TBD. WIRING THROUGH TIME CLOCK. REFER TO E-1.1 FOR DETAIL PROVIDE J-BOX FOR SIGNAGE WIRING THROUGH TIME CLOCK VERIEY WITH

 PROVIDE J-BOX FOR SIGNAGE. WIRING THROUGH TIME CLOCK. VERIFY WITH SIGNAGE PACKAGE FOR EXACT LOCATION AND ELECTRICAL REQUIREMENT BEFORE ROUGH IN.
 PROVIDE QUAD OUTLET FOR SHOW WALL IQTY AT +2"AFF, IQTY AT I2"AFF. WIRING THROUGH TIME CLOCK. REFER TO E-I.I FOR DETAIL.

PROVIDE J-BOX FOR INDOOR SIGN. WIRING THROUGH TIME CLOCK.
 PROVIDE J-BOX FOR STORE FRONT HORN. VERIFY EXACT LOCATION WITH

ARCHITECT BEFORE ROUGH IN. PROVIDE J-BOX FOR FUSION 100 SENSOR. VERIFY WITH ARCHITECT FOR EXACT LOCATION BEFORE ROUGH IN.

 $\langle 9 \rangle$  RUN I CAT 5 CABLES TO BACK CASH WRAP AREA.

(D) RUN I CAT 5 CABLES TO TV.

GENERAL CONTRACTOR SHALL INSTALL THE RECEPTACLE ABOVE BACK DOOR WITHIN 4 WEEKS INTO CONSTRUCTION FOR SHOE PALACE SUB-CONTRACTOR TO INSTALL OUTLET ABOVE SHELVES. VERIFY EXACT LOCATION WITH OWNER, CONSTRUCTION MANAGER AND SUB-CONTRACTOR BEFORE ROUGH IN.

(2) GENERAL CONTRACTOR SHALL INSTALL THE RECEPTACLE ON 4'-WIDE & 2'-HIGH PLYWOOD ABOVE THE SERVICE DOOR WITHIN 4 WEEKS INTO CONSTRUCTION FOR SHOE PALACE SUB-CONTRACTOR TO INSTALL OUTLET ABOVE SHELVES. VERIFY EXACT LOCATION WITH OWNER, CONSTRUCTION MANAGER AND SUB-CONTRACTOR BEFORE ROUGH IN.

 (13) PROVIDE J-BOX FOR SPEAKERS HANGING FROM CEILING. VERIFY EXACT LOCATION WITH SHOE PALACE BEFORE ROUGH IN.
 (14) PROVIDE PHONE JACKS BEHIND VESTIBULE DOOR WAY ABOVE THE SHELVES.

GENERAL CONTRACTOR SHALL CONFIRM EXACT LOCATION AND MOUNTING HEIGHT WITH SHOE PALACE BEFORE ROUGH IN. (15) GENERAL CONTRACTOR SHALL VERIFY AND REPLACE ALL EXISTING ELECTRICAL

CONTRACTOR STITLE VERILY AND THE EASE ARE EASTING LEED THOUSE EQUIPMENT AND DEVICES THAT IS OLDER THAN 5 YEARS. CONFIRM WITH OWNER, CONSTRUCTION MANAGER AND SUB-CONTRACTOR BEFORE ROUGH IN.
 CONSTRUCTION OF 6X6 PLYWOOD BACKBOARD ABOVE DOOR FOR LOW VOLTAGE EQUIPMENT (PHONE, CABLE, DATA AND ETC.) VERIFY WITH LOW VOLTAGE CONTRACTOR BEFORE ROUGH IN.

 PROVIDE J-BOX WITH 25A/2P MOTOR RATED SWITCH ABOVE RESTROOM CEILING FOR CONNECTION TO WATER HEATER. VERIFY WITH PLUMBING PLAN FOR EXACT LOCATION AND ELECTRICAL INFORMATION BEFORE ROUGH IN.
 PROVIDE J-BOX FOR BLADE SIGN. WIRING THROUGH RELOCATED TIME CLOCK. VERIFY WITH ARCHITECT AND SIGN PACKAGE FOR EXACT LOCATION AND

ELECTRICAL REQUIREMENT BEFORE ROUGHT IN.

 PROVIDE J-BOX FOR FLOOR FIXTURE AT +12"AFF. VERIFY EXACT LOCATION WITH SHOE PALACE BEFORE ROUGHT IN.
 RUN 4 CAT 5 CABLES TO FRONT CASH WRAP.

![](_page_35_Figure_17.jpeg)

# ELECTRICAL POWER PLAN

# IMPORTANT ELECTRICAL NOTE

THE RECEPTACLE LOCATION ON THE POWER PLAN IS NOT FINALIZED YET. DESIGN WILL BE ADJUSTED PER RECOMMENDATION PER SHOE PALACE THE TENANT.

![](_page_35_Figure_21.jpeg)

TIME CLOCK 'ON & 'OFF' (TYPICAL FOR ALL EXTERIOR LIGHT)----/

## ELECTRICAL LIGHTING PLAN SCALE: 1/8"=1'-0"

# ELECTRICAL LIGHTING KEYED NOTES

- $\langle I \rangle$  provide 3AMP on track current limiter for track lighting per code.
- (2) DENOTES NEW EXHAUST FAN WITH LIGHT FURNISHED AND INSTALLED BY GC. VERIFY WITH MECHANICAL PLAN BEFORE ROUGH IN.

## ELECTRICAL LIGHTING GENERAL NOTES

- ALL LIGHTS ARE WIRING THROUGH TIME CLOCK. REFER TO E-I.I FOR DETAIL.
- 2 THE STORE IS IN THE MALL. NO DAYLIGHT CONTROL IS REQUIRED.

![](_page_35_Picture_30.jpeg)

![](_page_35_Figure_31.jpeg)

| STATE OF CALIFORNIA<br>INDOOR LIGHTING<br>CEC-NRCC-LTI-01-E (Revised 08/15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                       | STATE OF CALIFORNIA<br>INDOOR LIGHTING<br>CEC-NRCC-LTI-01-E (Revised 08/15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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                                                                                                                                                                                                                                                                                                     | STATE OF CALIFORNIA<br>INDOOR LIGHTING<br>CEC-NRCC-LTI-01-E (Revised 08/15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| CERTIFICATE OF COMPLIANCE Indoor Lighting Designed August | NRCC-LTI-01-E<br>(Page 3 of 6)                                                                        | CERTIFICATE OF COMPLIANCE Indoor Lighting Project Memory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NRCC-LTI-01-E<br>(Page 2 of 6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are comple                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| YES         NO         Form, rice           X         NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| NRCA-LTI-03-A - Must be submitted for automatic daylight controls.         NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Field Inspector     Field Inspector                                                                   | 1.     NRCC-LTI-01-E, page 4     +     6108       2     PORTABLE ONLY FOR OFFICES     +     0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| A senarate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces Installed Lighting Power lister                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | d on this Lighting Schedule is only for                                                               | NRCC-LTI-01-E, page 3     O       3.     Minus Lighting Control Credits     -     0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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Lighting Compliance Documents (select ves for each document included)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>F. Indoor Lighting Schedule and Field Inspection Energy Checklist</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | d portable lighting systems                                                                           | 5. Complies ONLY if <b>Installed</b> ≤ <b>Allowe</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                          | For detailed instructions on the use of this and all Energy Efficiency Standards compliance docume                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ents, refer to the Nonresidential Manual published by the California Energy Commission.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| <ul> <li>When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.</li> <li>When Area Category Method or Tailored Method is used for compliance. list each different type of luminaire by each</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | different function area on separate lines                                                             | 6.     Allowed Lighting Power     6118       Conditioned NRCC-LTI-03-E, page 1     6118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                                                      | YES     NO     FORM     ITTLE       X     NRCC-LTI-01-E     Certificate of Compliance. 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| Also include track lighting in schedule, and submit the track lighting compliance form (NRCC-LTI-05-E) when line-volta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ge track lighting is installed.                                                                       | <b>D. Declaration of Required Installation Certificates</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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All Pages required on plans for all submittals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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                                              |                                                                                                       | X     NRCI-LTI-01-E - Must be submitted for all buildings       X     NRCI-LTI-02-E - Must be submitted for a lighting control system, or f                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| ddress:       26439 RANCHO PARKWAY, STE 120         CEA Certification Identification (if applicable):         tht/{State/Zip:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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Small offices that are typical (having shall not be traded between offices having different lighting systems)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | g the same general and portable lighting) may be grouped together. 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| <ol> <li>I certify the following under penalty of perjury, under the laws of the State of California:</li> <li>The information provided on this Certificate of Compliance is true and correct.</li> <li>I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| <ul> <li>(responsible designer).</li> <li>3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or Compliance conform to the requirements of Title 24. Part 1 and Part 6 of the California Code of Regulations.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | system design identified on this Certificate of                                                       | E(i.e, 3 lamp fluorescent troffer,Strain <t< td=""><td><math display="block">\begin{array}{c c} &amp; 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| <ol> <li>The building design features or system design features identified on this Certificate of Compliance are consistent with the informa documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issu enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is r builder provides to the building owner at occupancy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Responsible Designer Name:       GANGYI ZHOU       Responsible Designer Signature:         Company:       GMEP ENGINEERS       Date Signed:       10/03/2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Address: 26439 RANCHO PARKWAY, STE 120 CEA Certification Identification (if applicable): City/State/Zip:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                                                                                                                                                                                     | X Lighting shall be controlled by self-contained lighting control devices v<br>Efficiency Regulations in accordance with Section 110.9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | which are certified to the Energy Commission according to the Title 20 Appliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| LAKE FUKESI     949-267-9095       RESPONSIBLE PERSON'S DECLARATION STATEMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                                                                                                                                                                                                                     | XLighting shall be controlled by a lighting control a system or energy magnetic<br>shall be submitted in accordance with Section 130.4(b).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | anagement control system in accordance with §110.9. An Installation Certificate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <ol> <li>certify the following under penalty of perjury, under the laws of the State of California:</li> <li>The information provided on this Certificate of Compliance is true and correct.</li> <li>I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | n identified on this Certificate of Compliance                                                        | Lighting Control Schedule(√ all thatABCDE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | t apply, or enter 'E' if Exempted) 여 호 약 두 도 후 으 변 유 약<br>F G H I J K L M N O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | X One or more Track Lighting Integral Current Limiters shall be installed<br>§130.0. Additionally, an Installation Certificate shall be submitted in a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | which have been certified to the Energy Commission in accordance with §110.9 and ccordance with Section 130.4(b).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <ul> <li>(responsible designer).</li> <li>The energy features and performance specifications, materials, components, and manufactured devices for the building design or Compliance specifications.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | system design identified on this Certificate of                                                       | Type/ Description of LightingControl (i.e.: occupancy sensor,#**                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                     | XA Track Lighting Supplementary Overcurrent Protection Panel shall be<br>Installation Certificate shall be installed in accordance with Section 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | e installed in accordance with Section 110.9 and Section 130.0. Additionally, an 30.4(b).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <ol> <li>The building design features or system design features identified on this Certificate of Compliance are consistent with the informa documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ation provided on other applicable compliance<br>g permit application.                                | Location in Building automatic time switch, of $\overset{ m O}{\stackrel{ m i}{}}$ $\overset{ m O}{\stackrel{ m O}{\stackrel{ m o}{}}}$ dimmer, automatic daylight, Units $\overset{ m O}{\stackrel{ m o}{\stackrel{ m o}{}}$ $\overset{ m O}{\stackrel{ m O}{\stackrel{ m o}{}}}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                                                                                                                                                                                                                                                     | X All lighting controls and equipment shall comply with the applicable re-<br>instructions in accordance with Section 130.1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | equirements in §110.9 and shall be installed in accordance with the manufacturer's                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issu enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is rebuilder provides to the building owner at occupancy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ued for the building, and made available to the<br>required to be included with the documentation the | etc)                                  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                                                                                                       | X All luminaires shall be functionally controlled with manually switched                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ON and OFF lighting controls in accordance with Section 130.1(a).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| Responsible Designer Name:     GANGYI ZHOU     Responsible Designer Signature:       Company :     Company :     Date Signed:     40/00/000400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                                                                                                                                                                                                                     | General lighting shall be separately controlled from all other lighting sXand special effects lighting shall each be separately controlled on circular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | systems in an area. Floor and wall display, window display, case display, ornamenta<br>uits that are 20 amps or less. When track lighting is used, general, display,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Address:         26439 RANCHO PARKWAY, STE 120         License:         018959                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                                                                                                                                                                                                                                                     | v         ornamental, and special effects lighting shall each be separately contr           Y         The general lighting of any enclosed area 100 square feet or larger, with the separately contr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | rolled; in accordance with Section 130.1(a)4.<br>ith a connected lighting load that exceeds 0.5 watts per square foot shall meet the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| City/State/Zip:         LAKE FOREST         Phone:         949-267-9095                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                                                                                                                                                                                                                                                                     | <ul> <li>Multi-level lighting control requirements in accordance with Section 1</li> <li>All installed indoor lighting shall be equipped with controls that most</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                              |                                                                                                       | IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Con                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Control Credit PAGE TOTAL (Sum of Column M):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                                                                                                                                                                                                                                                                                                    | requirements in Section 130 1/d) and daylit zones are shown on the plane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                                                                                                                                                                                                                                                                     | Lighting power in buildings larger than 10,000 square feet shall be cap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | bable of being automatically reduced in response to a Demand Responsive Signal in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                              |                                                                                                       | 1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Enter Control Credit total<br>into NRCC-LTI-01-E; Page<br>1.<br>130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | X         Lighting power in buildings larger than 10,000 square feet shall be cap<br>accordance with Section 130.1(e).           Before an occupancy permit is granted for a newly constructed building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | bable of being automatically reduced in response to a Demand Responsive Signal in<br>ng or area, or a new lighting system serving a building, area, or site is operated for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                       | 1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §1<br>Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Side<br>2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and<br>also required to be filled out, signed, and submitted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Enter Control Credit total<br>into NRCC-LTI-01-E; Page<br>1.<br>130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) =<br>elit Daylight Controls.<br>and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | X       Lighting power in buildings larger than 10,000 square feet shall be cap accordance with Section 130.1(e).         Before an occupancy permit is granted for a newly constructed buildin normal use, indoor lighting controls serving the building, area, or site accordance with Section 130.4.(a). The controls required to meet the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | bable of being automatically reduced in response to a Demand Responsive Signal in<br>ng or area, or a new lighting system serving a building, area, or site is operated for<br>shall be certified as meeting the Acceptance Requirements for Code Compliance in<br>Acceptance Requirements include automatic daylight controls, automatic shut-OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned an<br>also required to be filled out, signed, and submitted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Enter Control Credit total<br>into NRCC-LTI-01-E; Page<br>1.<br>130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) =<br>elit Daylight Controls.<br>Ind unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | X       Lighting power in buildings larger than 10,000 square feet shall be cap accordance with Section 130.1(e).         X       Before an occupancy permit is granted for a newly constructed buildir normal use, indoor lighting controls serving the building, area, or site accordance with Section 130.4.(a). The controls required to meet the controls, and demand responsive controls.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | bable of being automatically reduced in response to a Demand Responsive Signal in<br>ng or area, or a new lighting system serving a building, area, or site is operated for<br>shall be certified as meeting the Acceptance Requirements for Code Compliance in<br>Acceptance Requirements include automatic daylight controls, automatic shut-OFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

![](_page_36_Picture_1.jpeg)

![](_page_36_Figure_2.jpeg)

| CERTIFICATE OF COMP     | LIANCE                 |                  |                       |                                           |                         |                    | NRCC-LTI-03- |
|-------------------------|------------------------|------------------|-----------------------|-------------------------------------------|-------------------------|--------------------|--------------|
| Certificate of Compliar | nce - Indoor Ligh      | ting Power Allow | wance                 |                                           |                         |                    | (Page 3 of 4 |
|                         |                        |                  |                       |                                           | Date Prepared: 10/03    | 2016               |              |
| SHOL                    | FALACE - F             | OOTHILL S        | QUARE                 |                                           | 10/00/                  | 2010               |              |
| A senarate nage must    | be filled out for      | Conditioned and  | d Unconditioned Sna   | ces This page is only for:                |                         |                    |              |
| CONDITIONED spa         | ces                    |                  | NDITIONED spaces      |                                           |                         |                    |              |
|                         |                        |                  |                       |                                           |                         |                    |              |
| -3 AREA CATEGORY N      | IETHOD ADDITIC         | ONAL LIGHTING    | WATTAGE ALLOWA        | NCE (from Table 140.6-C Footnotes)        |                         |                    |              |
| Α                       | В                      | C <sup>2</sup>   | D                     | Е                                         |                         | F                  | G            |
|                         |                        |                  |                       |                                           |                         | ┨╞────┤┝           | ALLOWED      |
|                         |                        | Additional       | Wattage               |                                           |                         |                    | WATTS        |
| Primary                 | Sq Ft or               | Watts            | Allowance             | Description(s) and Quantity of            | Special                 | Total Design       | Smaller of   |
| Function                | linear ft <sup>1</sup> | Allowed          | (B x C)               | Luminaire Types in each Primary Fo        | unction Area            | Watts <sup>3</sup> | D or F       |
| N/A                     |                        |                  |                       |                                           |                         |                    |              |
|                         |                        |                  |                       |                                           |                         |                    |              |
|                         |                        |                  |                       |                                           |                         |                    |              |
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|                         |                        |                  |                       |                                           |                         | ┨╞────┤┝           |              |
|                         |                        |                  |                       |                                           |                         |                    |              |
|                         |                        |                  |                       |                                           |                         | ┥┟────┤┝           |              |
|                         |                        | 1                | TOTALS – En           | ter into TOTAL AREA CATEGORY METHOD AD    | DITIONAL ALLOWANCES -   | Section C-1        |              |
| Use linear feet only f  | or additional allo     | wance for white  | e board or chalk boar | d. All other additional Area Category all | owances shall use watts | per square foot    |              |
| Additional watta area   |                        |                  | arding to the feature | too on bottom of Table 146 C which incl   |                         |                    | lighting     |
| . Additional watts are  | available only w       | men allowed acc  | cording to the footho | tes on bottom of Table 146-C, which incl  | ude: Specialized task w | ork; Ornamental    | lighting;    |

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

![](_page_37_Picture_2.jpeg)

| CERTIFICATE OF COMPLIANCE                       |                                                             |                        |                |                         |
|-------------------------------------------------|-------------------------------------------------------------|------------------------|----------------|-------------------------|
|                                                 |                                                             |                        |                |                         |
| Certificate of Compliance - Indoor Lighting Pov | ver Allowance                                               |                        |                |                         |
| roject Name: SHOE PALACE - FOOTH                | IILL SQUARE                                                 |                        | Date Prepared: | 10/03/2016              |
| A separate page must be filled out for Conditi  | oned and Unconditioned Spaces. This page is only for:       |                        |                |                         |
| CONDITIONED spaces                              | UNCONDITIONED spaces                                        |                        |                |                         |
| -2 AREA CATEGORY METHOD GENERAL LIGH            | TING POWER ALLOWANCE                                        |                        |                |                         |
| Do not include portable lighting for offices    | . Portable lighting for offices shall be documented only in | section B of N         | RCC-LTI-01     | E.                      |
| Separately list lighting for each primary fu    | nction area as defined in §100.1 of the Standards.          |                        |                |                         |
|                                                 | A                                                           | В                      |                | C                       |
| AREA CATEGORY (F                                | rom §140.6 Table 140.6-C)                                   | WATTS                  |                |                         |
| Location in Building                            | Primary Function Area per Table 140.6-C                     | PER (ft <sup>2</sup> ) | ) X            | AREA (ft <sup>2</sup> ) |
| STORAGE                                         | STORAGE                                                     | 0.6                    |                | 1956                    |
| SALES AREA                                      | RETAIL AREA                                                 | 1.2                    |                | 4120                    |
|                                                 |                                                             |                        |                |                         |
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| CALIFORNIA ENERGY COMMISSION                                                                                                                                                                                                                                                                                                                                                                                       | STATE OF CALIFORNIA<br>INDOOR LIGHTING POW<br>CEC-NRCC-LTI-03-E (Revised 05/15)<br>CERTIFICATE OF COMPLIANCE                                                                          | /ER ALLOWANCE                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                       | CALIFORNIA ENERGY COM                                                                                                                                            | MMISSION<br>NRCC-LTI-03-E                        | STATE OF CALIFORNIA<br>INDOOR LIGHTING POWER ALLOWANCE<br>CEC-NRCC-LTI-03-E (Revised 05/15)<br>CERTIFICATE OF COMPLIANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CALIFORNIA ENERGY COMMISSION<br>NRCC-LTI-C                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| (Page 3 of 4)<br><sup>e Prepared:</sup> 10/03/2016                                                                                                                                                                                                                                                                                                                                                                 | Certificate of Compliance - Indoor<br>Project Name: SHOE PALACE                                                                                                                       | r Lighting Power Allowance<br>E - FOOTHILL SQUARE                                                                                                                                                                                                                                                                                                                              | Date Prep                                                                                                                                                                                                                                                                                                                                                                             | ared: 10/03/2016                                                                                                                                                 | (Page 2 of 4)                                    | Certificate of Compliance - Indoor Lighting Power Allowance Project Name: SHOE PALACE - FOOTHILL SQUARE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (Page 1 o<br>Date Prepared: 10/03/2016                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                    | A separate page must be filled o                                                                                                                                                      | ut for Conditioned and Unconditioned Spaces. This page is                                                                                                                                                                                                                                                                                                                      | only for:                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                  |                                                  | A separate page must be filled out for Conditioned and Unconditioned Spaces.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | This page is only for:                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
| F G<br>ALLOWED<br>WATTS                                                                                                                                                                                                                                                                                                                                                                                            | C -2 AREA CATEGORY METHOD G<br>☐ Do not include portable lighti<br>☐ Separately list lighting for eac                                                                                 | ENERAL LIGHTING POWER ALLOWANCE<br>ing for offices. Portable lighting for offices shall be docume<br>ch primary function area as defined in §100.1 of the Standa                                                                                                                                                                                                               | nted only in section B of NRCC-L <sup>-</sup> rds.                                                                                                                                                                                                                                                                                                                                    | П-01-Е.                                                                                                                                                          |                                                  | <ul> <li>A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES</li> <li>If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.</li> <li>If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total</li> </ul>                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |
| cial Total Design WATIS Smaller of D or F                                                                                                                                                                                                                                                                                                                                                                          | AREA C<br>Location in Buildir<br>STORAGE<br>SALES AREA                                                                                                                                | A CATEGORY (From §140.6 Table 140.6-C) ng Primary Function Area per Table 14 STORAGE RETAIL AREA                                                                                                                                                                                                                                                                               | B           WATTS           0.6-C           PER (ft <sup>2</sup> )           0.6           1.2                                                                                                                                                                                                                                                                                        | $\begin{array}{c c} C \\ X \\ AREA (ft^2) \\ \hline 1956 \\ 4120 \\ \hline \\ $  | D<br>ALLOWED<br>WATTS<br>1174<br>4944            | allowed building watts  1. Complete Building Method Allowed Watts. Documented in section B of NRCC- 2. Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LT 3. Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E TOTAL ALLOWED BUILDING WATTS. Enter number into correct ce Check here if building contains both conditioned and unconditioned areas.  B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE 1                                                                                                                                 | (a)     (b)       -LTI-03-E (below on this page)     NA       FI-03-E (below on this page)     6118       NA     810 n NRCC-LTI-01, Page 2, Row 1       2     3                                                                                                                                                                                                                                             |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                  |                                                  | TYPE OF BUILDING (From §140.6 Table 140.6-B)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | WATTS<br>PER (ft <sup>2</sup> )       X       COMPLETE<br>BLDG. AREA       =       ALLOWED<br>WATTS         Total Area:         Total Area:         Total Area:         Otal Area:         Otal Area:         Otal Area:                                                                                                                                                                                    |  |  |  |
| DNAL ALLOWANCES – Section C-1                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                  |                                                  | C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES (D plus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | E)WattsTotal from section C-26118Total from section C-30ts. Enter Total Watts into section A, row 2 (Above on this page)6118                                                                                                                                                                                                                                                                                |  |  |  |
| hting; and Videoconferencing Studio lighting<br>May 2015                                                                                                                                                                                                                                                                                                                                                           | CA Building Energy Efficiency Standard                                                                                                                                                | Enter sum total Area Category allowed watts into se<br>ds - 2013 Nonresidential Compliance                                                                                                                                                                                                                                                                                     | TOTALS<br>ction C-1 of NRCC-LTI-03-E (tł                                                                                                                                                                                                                                                                                                                                              | 6076                                                                                                                                                             | 6118<br>WATTS<br>May 2015                        | CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | May 20                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
| LIGHTING WORKSHEET CAL CAL CK Lighting Worksheet FOOTHILL SQUARE Date Prepare                                                                                                                                                                                                                                                                                                                                      | LIFORNIA ENERGY COMMISSION<br>NRCC-LTI-05-E<br>(Page 2 of 2)<br>ed: 10/03/2016                                                                                                        | STATE OF CALIFORNIA<br><b>LINE-VOLTAGE TRACK LIGHTING W</b><br>CEC-NRCC-LTI-05-E (Revised 05/15)<br>CERTIFICATE OF COMPLIANCE<br>Indoor Lighting – Line-Voltage Track Lighting Work<br>Project Name: SHOE PALACE - FOOTHILL                                                                                                                                                    | ORKSHEET<br>sheet<br>SQUARE                                                                                                                                                                                                                                                                                                                                                           | CALIFORNIA ENERGY CO<br>Date Prepared: 10/03/201                                                                                                                 | MMISSION<br>NRCC-LTI-05-E<br>(Page 1 of 2)<br>6  | STATE OF CALIFORNIA<br><b>INDOOR LIGHTING POWER ALLOWANCE</b><br>CEC-NRCC-LTI-03-E (Revised 05/15)<br>CERTIFICATE OF COMPLIANCE<br>Certificate of Compliance - Indoor Lighting Power Allowance                                                                                                                                                                                                                                                                                                                                                                                          | CALIFORNIA ENERGY COMMISSION<br>NRCC-LTI-C<br>(Page 4 o                                                                                                                                                                                                                                                                                                                                                     |  |  |  |
| RATION STATEMENT         Impliance documentation is accurate and complete.         I ZHOU       Documentation Author Signature:         NEERS       Signature Date:       10/03/2016         PARKWAY, STE. 120       CEA Certification Identification (if applicable)         T, CA 92630       Phone:       949-267-9095                                                                                          | Dongy Than                                                                                                                                                                            | <ul> <li>There are four different methods available for of been installed. One or more methods may be has been installed. Use this worksheet to separately enter each row of this worksheet int</li> <li>Method 1 is the only option available for determination.</li> </ul>                                                                                                   | etermining how many watts of<br>used to determine how many w<br>irately calculate the input watta<br>o the Luminaire Schedule in sect<br>nining wattage for track or busw<br><b>HE BRANCH CIRCUIT(S)</b>                                                                                                                                                                              | line-voltage track or line-voltage<br>atts of line-voltage track or line-v<br>ge for each system.<br>tion C of NRCC-LTI-01-E<br>vay rated for more than 20 amper | busway has<br>voltage busway<br>res              | Project Name:       SHOE PALACE - FOOTHILL SQUARE         DOCUMENTATION AUTHOR'S DECLARATION STATEMENT       1.         1.       I certify that this Certificate of Compliance documentation is accurate and complete         Documentation Author Name:       GANGYI ZHOU         Company:       GMEP ENGINEERS         Address:       26439 RANCHO PARKWAY, STE 120         City/State/Zip:       LAKE EOREST, CA 92630                                                                                                                                                               | Date Prepared: 10/03/2016<br>2.<br>Documentation Author Signature:<br>Signature Date: 10/03/2016<br>CEA Certification Identification (if applicable):<br>Phone: 040.267.0005                                                                                                                                                                                                                                |  |  |  |
| DN STATEMENT<br>of perjury, under the laws of the State of California:<br>s Certificate of Compliance is true and correct.<br>the Business and Professions Code to accept responsibility for the build<br>compliance (responsible designer).<br>nance specifications, materials, components, and manufactured device<br>ate of Compliance conform to the requirements of Title 24, Part 1 and F                    | ding design or system design<br>es for the building design or system<br>Part 6 of the California Code of                                                                              | A<br>BRANCH CIRCUIT                                                                                                                                                                                                                                                                                                                                                            | NAME OR ID                                                                                                                                                                                                                                                                                                                                                                            | VOLT-AMPERE (\<br>BRANCI                                                                                                                                         | B<br>/A) RATING OF THE<br>H CIRCUIT              | <ul> <li>RESPONSIBLE PERSON'S DECLARATION STATEMENT</li> <li>I certify the following under penalty of perjury, under the laws of the State of California:</li> <li>The information provided on this Certificate of Compliance is true and correct.</li> <li>I am eligible under Division 3 of the Business and Professions Code to accept respon<br/>(responsible designer).</li> <li>The energy features and performance specifications, materials, components, and m<br/>Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the Californian content.</li> </ul> | nsibility for the building design or system design identified on this Certificate of Compliance<br>nanufactured devices for the building design or system design identified on this Certificate of<br>rnia Code of Regulations.                                                                                                                                                                             |  |  |  |
| system design features identified on this Certificate of Compliance are of<br>mpliance documents, worksheets, calculations, plans and specifications<br>ilding permit application.<br>gned copy of this Certificate of Compliance shall be made available with<br>to the enforcement agency for all applicable inspections. I understand<br>required to be included with the documentation the builder provides to | consistent with the information<br>s submitted to the enforcement<br>h the building permit(s) issued for<br>d that a completed signed copy of<br>to the building owner, at occupancy. | A       B         Track or Name #       Linear Feet of                                                                                                                                                                                                                                                                                                                         | C     D       (W/LF)     B x C                                                                                                                                                                                                                                                                                                                                                        | COTAL RATED WATTAGE OF ALL L<br>E<br>TOTAL RATED WATTAGE OF ALL                                                                                                  | LUMINAIRES<br>F<br>LARGER OF                     | <ol> <li>The building design features or system design features identified on this Certificate documents, worksheets, calculations, plans and specifications submitted to the enformation of the signed copy of this Certificate of Compliance shall be enforcement agency for all applicable inspections. I understand that a completed signed worksheet of the building owner at occupancy.</li> <li>Responsible Designer Name: GANGYLZHOU</li> </ol>                                                                                                                                 | of Compliance are consistent with the information provided on other applicable compliance<br>forcement agency for approval with this building permit application.<br>made available with the building permit(s) issued for the building, and made available to the<br>igned copy of this Certificate of Compliance is required to be included with the documentation the<br>Responsible Designer Signature: |  |  |  |
| IZHOU         Responsible Designer Signature:           JEERS         Date Signed:         10/03/2016           PARKWAY, STE. 120         License:         018959           ST, CA 92630         Phone:         949-267-9095                                                                                                                                                                                       | Jamery, 2har                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                | 45<br>45<br>45<br>45                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                  |                                                  | Company :GMEP ENGINEERSAddress:26439 RANCHO PARKWAY, STE 120City/State/Zip:LAKE FOREST, CA 92630                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Date Signed:         10/03/2016           License:         018959           Phone:         949-267-9095                                                                                                                                                                                                                                                                                                     |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                       | METHOD 3 – USE THE HIGHER OF: 12.5 WATTS Only integral current limiters which are certified to t This method shall not be recognized if an Installation A B Linear Feet of Track or Name # Track TRACK LIGHT F 48 <b>METHOD 4 - DEDICATED TRACK LIGHTING SUI</b> This method shall not be recognized if an Installation This method shall not be recognized if an Installation | / LINEAR FOOT OF TRACK – OR         ie Energy Commission shall be reco         Certificate is not submitted.         C       D         B x C         (W/LF)       (W)         12.5       600         12.5       12.5         PLIMENTARY OVERCURRENT P         Certificate is not submitted.         lighting, and shall not be recognized         (overcurrent protection panel shall | VA RATING OF INTEGRAL CURRI<br>gnized by the Standards.<br>E<br>VA Rating of Integral Current<br>Limiter<br>480<br>ROTECTION PANEL                               | ENT LIMITER<br>F<br>Larger of<br>(D or E)<br>600 | CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | May 2(                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |
| 2012 Nenresidential Compliance                                                                                                                                                                                                                                                                                                                                                                                     | May 2015                                                                                                                                                                              | A B<br>Voltage of the Sum o<br>NAME OR ID Branch Circuit Devic                                                                                                                                                                                                                                                                                                                 | C<br>f the Ampere Rating of all Watter<br>es installed in the Panel                                                                                                                                                                                                                                                                                                                   | D<br>age = Sum of the Ampere Ratings of<br>Times The Branch Circuit Voltag                                                                                       | all of the Devices<br>e (B x C)                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |

![](_page_37_Picture_6.jpeg)

![](_page_37_Figure_8.jpeg)

![](_page_37_Figure_9.jpeg)

![](_page_37_Figure_10.jpeg)