



FERMA CORPORATION

DEMOLITION PLAN

**VALLCO MALL A2
10123 N WOLFE RD
CUPERTINO, CALIFORNIA**

**PREPARED FOR:
DEVCON CONSTRUCTION
690 GIBRALTAR DRIVE
MILPITAS, CA 95035**

**PREPARED BY:
VALENTIN PEÑA
FERMA CORPORATION**

DEMOLITION PLAN

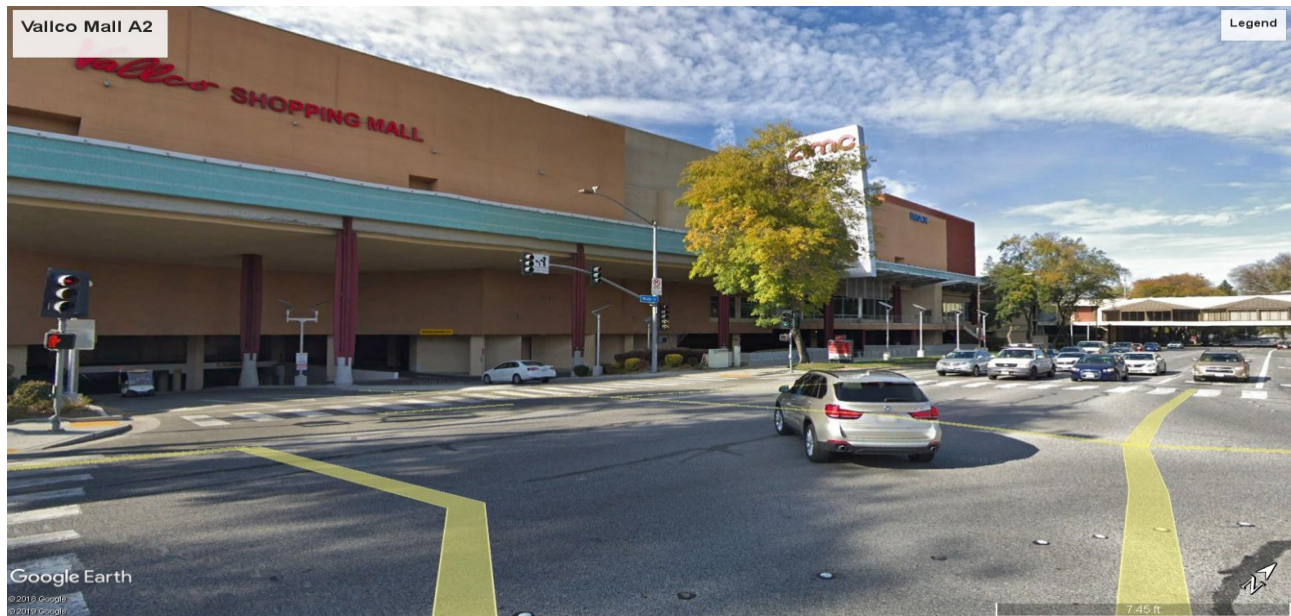
Ferma will perform the zone A2 demolition of the Vallco Mall in Cupertino, California. Ferma will act at all times in a manner to protect the surrounding environment adjacent to the building being demolished.

Elements of the Plan: Ferma will perform the following in accordance with the terms and conditions of the contract.

1. Water Utilization for Dust Control to Surrounding Vicinity: To include fire hoses and/or other water controls to mitigate dust generation.
2. Fire extinguishers on site to eliminate any fires that may erupt during the course of the demolition work. Quantity will be applicable to project requirements and amount of work in process.
3. Ferma will attempt to minimize disturbance to surrounding areas outside our demolition limits.
5. Ferma will obtain Bay Area Air Quality Management District (BAAQMD) permit.
6. Fuel Spills: Ferma intends to protect against spills and evaporation during fueling and lubrication of equipment and motor vehicles used in demolition procedures. Ferma will have spill kits available onsite. These kits include absorbent pads and storage drums in the event of a spill.
7. Ferma will remove waste and surplus materials, rubbish and demolition materials from the site.
8. During the course of demolition, Ferma will double check that the electrical and mechanical services and utilities have been properly shut down and capped by others.
9. Ferma will make sure control signs are in place where pedestrian and driver safety is endangered in the area of removal work. Certified flaggers will control traffic to allow Ferma to perform demolition adjacent to pedestrian and/or traffic lanes. This will be performed throughout the duration of the demolition.
10. Removal and transport of debris/rubbish will be done so in a manner that will prevent spillage on pavements, streets, or adjacent areas. Ferma will ensure that any overflow or spillage is cleaned up from pavements, streets and adjacent areas immediately.
11. All hazardous materials will be removed prior to any structural demolition by a licensed contractor and in accordance to all rules and regulations as identified in the Hazardous

SITE DESCRIPTION

The demolition project consists of the complete removal of Cupertino's Vallco Mall. Ferma's portion of work only consists of Zone A2. The site is located at 10123 N Wolfe Rd, Cupertino, California.



SITE MOBILIZATION PLAN

Ferma will utilize attachments such as hydraulic hammers, pulverizers, or shears that may be used on hydraulic equipment. The equipment to be used to perform building demolition and removal is listed below. Equipment of similar size and weight by an alternate manufacturer will be substituted or added if necessary during the course of demolition. One or several pieces of each listed piece of equipment may be used on site at a time.

Proposed Machinery:

- FE 115 Excavator or equivalent
- CAT 385 Excavator or equivalent
- CAT 365 Excavator or equivalent
- Volvo 350 Excavator or equivalent
- Crane
- 4 Skid Steers

ACTUAL BUILDING DEMOLITION

Make Safe Program:

Every shift will begin at 7:00 AM with a meeting to review the scope of work for that day and the potential dangers associated with each work item. Any special hour requests will be approved by Devcon Construction.

Ferma's on-site foreman will perform a daily site walk of all areas of the buildings and make a physical inspection to verify that no persons, pets or other living things are in or around the building.

Ferma will double check that all utilities have in fact been shut down. Ferma's foreman will also inspect for any potential hazardous material and hazardous energy storage devices. Once verified and made safe, Ferma will make proper signage indicating the areas/devices are safe to remove or demolish.

Protective equipment for the operator and laborer will include: work boots (e.g. steel-toed boots, etc.), gloves, safety glasses/goggles, hard hat protection, and Hi-vis vest.

Note: All mechanical equipment to have OSHA approved guards. The demo equipment has a cage to protect the operator from falling debris. Operator will wear seat belt when operating the equipment.

Ferma will coordinate with Devcon Construction the installation of protective measures to prevent damage or injury to people and property. The primary concern for this project is falling debris. Types of shields:

1. Perimeter Barricade – A barricade/fence will be installed(by others) at the edge of the project limits to maximize the work space required to perform the work. The barricade will always be closed during demolition activities except when materials are being exported. Ferma will monitor the entrance to prevent unauthorized access. The barricade will be locked during non-work hours.
2. Debris net curtain. The debris curtain will help falling and/or flying debris to stay inside the limits of the work area. The crane that will hold the debris screen will be placed in between the building to be demolished and inside the fenced area. The crane will not be on North Wolfe Road, but inside the demolition site. See example picture below.



COMPLETE BUILDING DEMOLITION PROCEDURE

Water for dust suppression will be available from a metered hydrant.

Before demolishing the mall structure in zone A2, Ferma will perform complete interior demolition. An opening will be created on the rear of the structure where debris will be pushed out. The opening will be OSHA compliant. Ferma will push the debris out of the structure floor by floor, where it will be prepared for off-haul. Once the interior demolition is complete, Ferma will perform structural demolition. Sidewalk on Wolfe Rd. will have to be closed and monitored

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during this operation due to the proximity of the demolition activities. The sidewalk closure will need be extended from TGIF restaurant to the demo limits of A2. Ferma will utilize a debris curtain that will be hoisted with a crane during demo activities directly adjacent to the side walk on Wolfe Rd. No lanes of Wolfe Rd. will be closed during demolition. Ferma will demolish the structure one bay (bay is an area between two rows of columns) at a time in a top down sequence using high reach excavators. The excavators will reach the top concrete level with the Clam Bucket and/or concrete processors and demolish the bay of the building down to street level. Ferma will continue the demolition in a top down approach at all times. Ferma's high reach excavator will use a hydraulic processor that will demolish the building in small sections and create rubble. This method does not compromise the structure in a manner that will create a large material collapse. This method controls the demolition that only rubble will fall directly below the demolition. Any flying particles will be stopped by the debris curtain. The resulting material will be picked up and moved to the side by the advancing excavator. This process will continue one bay at a time until the building is completely down. Ferma will perform the demolition towards Stevens Creek Blvd, parallel to Wolfe Rd. The crane hoisting the curtain will also move parallel with demolition, ensuring protection is in place at all times.

Spotters will be utilized to prevent workers from entering the area where the excavator is working and certified flaggers will be utilized to control traffic during this activity if needed.

Steel, tin, copper and aluminum will be separated from the debris and hauled separately for recycling.

Dust will be generated during the demolition of this project. All dust will be abated with the use of high-pressure water delivered by a water hose and/or on-board water suppression systems. All dust will be abated in accordance with the requirements of BAAQMD. All demolition processes will be kept wet (fire hose) to minimize generation of dust. A screen will be hoisted via crane in front of the building to eliminate debris entering sidewalk and street.

TRAFFIC CONTROL

Ferma will manage its own traffic throughout the duration of the project. Flaggers will be used to direct traffic in and out of the jobsite. Adequate signage will be used to alert traffic of potential truck entering and exiting on Wolfe Rd and/or Stevens Creek Blvd.

Spotters and certified flaggers will also monitor pedestrian traffic if needed for operations that encroach the sidewalk to ensure no pedestrians enter the closed area.

Ferma will have the sidewalk closed along Wolfe Road during structural demolition activities. All lanes on Wolfe Rd. will be active.

Depending on the Area, the site fence is 35' to 50' away from the building.

EMERGENCY ACTION PLAN

In the event of an emergency FERMA will adhere to Devcon's site emergency action plan.

POLLUTION CONTROL

- A) **NOISE CONTROL:** All machinery and equipment are calibrated to fall within the acceptable dB ratings for a project of this nature. If complaints arise, dB meters will be utilized to determine noise levels and adjustments will be made if necessary.
- B) **DUST CONTROL:** Dust will be generated during the demolition and excavation phase of this project. All dust will be abated with the use of high-pressure water delivered by a water hose. All dust will be controlled in accordance with the requirements of BAAQMD. All demolition processes will be kept wet (fire hose) to minimize generation of dust. Further, Ferma will employ vacuum equipped street sweepers to remove any sediment that may enter the haul routes.
- C) **EROSION CONTROL:** SWPP measures will be installed to prevent storm water from carrying sediment/debris into the storm water system. Ferma to maintain once in place for the duration of their work.
- D) **RECYCLING PLAN**

Ferma will recycle/salvage the non-hazardous construction debris. This includes owner required salvaged items (if any), debris, concrete, and steel removed from the demolition.

- A) Demolition debris will not be stored long-term on the site. All debris will be hauled-off the site as soon as possible. All construction debris will be taken to a construction debris recycling facility. The debris will be mixed and shredded for re-use at a recycle facility.
- B) Concrete will be separated mechanically from demolition debris by using Excavators.
- C) Green Waste (if encountered) will be transported to a green waste recycle facility.
- D) All wires may be pulled out by using excavators and laborers. Wire and other metal, both ferrous and non-ferrous, will be cut in pieces on site and hauled to metal recyclers.

A final report will be provided that summarizes the quantities of material, recycling facilities and

actual percent salvaged/recycled.

HAZARDOUS MATERIALS PLAN

R.B Construction will perform all hazardous waste removal. R.B Construction will provide all labor, equipment and materials needed remove & dispose of the following asbestos containing materials, lead paint stabilization & Universal Wastes from the above project location as **identified & quantified** in the survey provided by Protech dated October 26,2018.

No hazardous materials are expected once building demolition begins.

PROJECT PERSONNEL

Duties, Responsibilities, and Authorities

- A) Valentin Peña (Project Manager):** Provide general management and scheduling; conduct contract and subcontract administration; oversee office-generated paperwork; conduct job-site visits; attend job-site meetings; resolve disputes unresolvable at field level; provide information and direction to field staff; review monthly billings; administrate job close out. (PHONE # 650-450-7922)
- B) Doug Rodoni (General Superintendent):** Provide overview supervision; visit job-site; attend job-site meetings; expedite manpower, equipment and material support; participate in direct scheduling; provide information and direction to job foreman. (PHONE # 650-245-2716)
- C) Avery Brown (Safety Officer):** Perform safety inspection; provide safety liaison duties between client and Ferma; provide safety information; update and administer Safety Plan; provide all posting for specific site safety consideration; attend safety meetings. (PHONE # 650-996-0711)

D) Antonio Cuevas (Job Foreman): Provide on-site full time job supervision; provide direct job scheduling; prepare and disseminate field communication, both written and verbal to all parties; conduct weekly safety meetings; assure timely job progress to final completion.

SAFETY INSPECTION PROCEDURES

Risk Assessment

The objective of safety inspections at the job site is to identify and correct any situations that might cause accidents to workers or to the public. Conducting regular inspections is one of the most effective ways to recognize potential hazards in the job site, making the process a critical component of any job site safety program. Inspections will include close examination of equipment used, in addition to evaluating how well employees comply with job site standards and procedures while performing their typical duties

Inspection Team

Inspection team includes safety officer, job site superintendent and a project foreman. These individuals are responsible for carrying out regular inspections of the physical premises and equipment as well as observing how work processes are being carried out. The team looks for particular hazards assessing any deficiencies and/or unsafe conditions identified on the list. In addition, the inspection team is responsible for correcting any situations that may create a threat.

Inspection Team is responsible for determining how frequently the job site will be inspected. Common hazards are identified on the checklists along with areas in the job site known for a high incidence of accidents. The team is also responsible for developing control measures for assessing any risks identified in the job site. Follow-up of the corrective actions taken is then tracked and progress determined.

Ranking Hazards

Safety inspections have a procedure for classifying hazards. The inspection team will place high priority on reporting a hazard that requires immediate action to correct an unsafe condition or act, particularly one that could cause serious accidents. An example of a high-risk hazard is defective machinery or equipment, or an employee not using equipment correctly. Other hazards identified by the team might not necessarily pose an immediate threat, but should be addressed as soon as possible. Although low hazard risks do not require urgent action, they should still be dealt with in a timely manner in order to prevent potential injury or harm to others.

Qualified persons to perform these inspections

Definition: 29 CFR 1926.32(l) states: "Qualified" means one who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training and experience, has successfully demonstrated his ability to solve or resolve problems relating to the subject matter, the work, or the project".

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Qualified person[s]: For this project:

Alfredo "Freddy" Pena (full time)

Avery Brown

Doug Rodoni

Project Superintendent: Mr. Doug Rodoni OSHA 30 &10, 40 hours HAZMAT, Contractor
Asbestos Supervisor, Lead Worker, CPR and 1st Aid,

Qualification: Superintendent/ Foreman with for more than 15 years. Worked on other similar
construction projects in San Francisco.

Safety Officer: Avery Brown

Qualification: OSHA 10 & OSHA 30 Instructor

Safety Officer/Director for more than 10 years

Worked on other similar construction projects.