

# RESOURCE

2022

## Carousel Mall Demolition Project

PROPOSAL

RESOURCE ENVIRONMENTAL, INC.

# TABLE OF CONTENTS

<b>COVER LETTER .....</b>	<b>3</b>
<b>PROPOSED SCOPE OF SERVICES .....</b>	<b>4</b>
<b>PERSONNEL .....</b>	<b>5</b>
INFORMATION ON PRIMARY PROJECT STAFF .....	5
RESUME – RICHARD MILLER, COO.....	6
RESUME – BRIAN SHEN, P.E., ENGINEER-OF-RECORD .....	9
RESUME – JOSHUA DOME, CEO .....	10
RESUME – CYNTHIA SKIFF, VICE PRESIDENT .....	13
RESUME – CHASE TINSLEY, DIRECTOR, BIDS AND PROJECT MANAGEMENT .....	16
RESUME – ALBERT SANCHEZ, JR., SR. DEMOLITION ESTIMATOR/PROJECT MANAGER.....	17
RESUME – BENJAMIN SERRANO, ABATEMENT ESTIMATOR/PROJECT MANAGER .....	19
RESUME – STEVEN SCHERBARTH, DEMOLITION SUPERINTENDENT .....	20
RESUME – MARIO MEDINA, ABATEMENT SUPERINTENDENT .....	22
<b>UNDERSTANDING OF PROJECT .....</b>	<b>24</b>
PROJECT SCHEDULE [FOLDED AND STAPLED ATTACHED] .....	24
SCHEMATIC DRAWINGS .....	26
SSK-01 [folded and stapled attached].....	26
SSK-02 [folded and stapled attached].....	27
SSK-03 [folded and stapled attached].....	28
SSK-04 [folded and stapled attached].....	29
REI-01 [folded and stapled attached] .....	30
PROJECT DESIGN NARRATIVE.....	31
PROJECT APPROACH/EXECUTIVE SUMMARY .....	33
<b>REFERENCES.....</b>	<b>35</b>
RANCHO LOS AMIGOS SOUTH CAMPUS DEMOLITION [DESIGN-BID-BUILD] .....	35
EXISTING STUDENT SERVICES & STUDENT ACTIVITIES DEMOLITION [DESIGN-ASSIST/DESIGN-BID-BUILD] .....	36
COMPTON HS CAMPUS-WIDE STRUCTURE & UTILITY DEMOLITION [DESIGN-BID-BUILD] .....	37
LAWA MANCHESTER SQUARE DEMOLITION PHASES 1-2 [DESIGN-BUILD] .....	38
LACCD FORMER FIRESTONE PLANT ELAC DEMOLITION [DESIGN-BID-BUILD].....	39
<b>LIST OF ADDITIONAL REPRESENTATIVE PROJECTS.....</b>	<b>40</b>
DEMOLITION OF BUILDINGS 58 & 158, NVBPL [DESIGN-BUILD] .....	40
MICHELSON LABS WINGS 2-6 REPAIR, NVBCL [DESIGN-BUILD] .....	40
DESIGN-BUILD REPAIR BEQ 210705, MCBCL [DESIGN-BUILD].....	40
DESIGN-BUILD BURROUGHS MS SITE MODERNIZATION, LAUSD [DESIGN-BUILD] .....	40
DESIGN-BUILD JEFFERSON ES SITE MODERNIZATION, LAUSD [DESIGN-BUILD] .....	40
SEASIDE SURPLUS II DEMOLITION, FORA [DESIGN-BID-BUILD] .....	40
CEFCU STADIUM EAST DEMOLITION, SJSU [DESIGN-BID-BUILD].....	40
TWIN RIVERS SITE DEMOLITION PHASE 1-2, SHRA [DESIGN-BID-BUILD] .....	40
BATCHELOR HALL MODERNIZATION, UCR [DESIGN-BID-BUILD] .....	40
PCGC DEMOLITION OF DeWITT CENTER, PLACER COUNTY [DESIGN-BID-BUILD] .....	41
SMC MATH-SCIENCE DEMOLITION [DESIGN-BID-BUILD] .....	41
2020 WILDFIRE DEBRIS REMOVAL & HAZARD TREE REMOVAL, CALRECYCLE [EMERGENCY] .....	41
HINKLEY REMEDIATION, PG&E [EMERGENCY].....	41
STATE ROUTE 47 – SCHUYLER HEIM BRIDGE [TT DESIGN-BUILD].....	41
NORTHBAY MEDICAL CENTER CENTRAL UTILITIES PLANT REPLACEMENT [TT DESIGN-BUILD].....	41
EL CAMINO HOSPITAL – OLD MAIN DEMOLITION [TT DESIGN-ASSIST] .....	41

EL CAMINO HOSPITAL – SOBRANTE PAVILION [TT DESIGN-ASSIST].....	41
EL CAMINO HOSPITAL – TAUBE PAVILION [TT DESIGN-ASSIST].....	41
<b>PROPOSAL FORM [ATTACHMENT 6] .....</b>	<b>42</b>
<b>REQUIRED FORMS .....</b>	<b>46</b>
IRAN CONTRACTING ACT CERTIFICATION [ATTACHMENT 2].....	46
WORKERS’ COMPENSATION CERTIFICATION [ATTACHMENT 3] .....	47
NON-COLLUSION DECLARATION [ATTACHMENT 4] .....	48
PUBLIC WORKS CONTRACTOR REGISTRATION CERTIFICATION [ATTACHMENT 5] .....	49

# COVER LETTER

September 29, 2022

City of San Bernardino  
City Council  
290 North "D" Street  
San Bernardino, CA 92401

**RE: Carousel Mall Demolition Project – Resource Environmental, Inc.**

Dear Honorable Mayor and City Council:

Resource Environmental, Inc. is pleased to present its enclosed proposal for the Carousel Mall Demolition Project – demonstrating not only our extensive demolition experience and interest in participating as the Design-Build Entity for this project, but also our thorough investigation, comprehension, and understanding of the City's expectations.

Resource has gone the extra mile by beginning the comprehensive hazardous material survey process by sampling all suspect asbestos materials. Knowing the extent of remediation has allowed Resource to confidently price this scope of work, ensuring costs are covered within our pricing. Additionally, Resource's Design-Build Engineer of Record, Brian Shen of the renowned Thornton Tomasetti, has already begun structural calculations and assumptions - providing Resource the opportunity to offer competitive pricing while ensuring all costs and contingencies are accounted for.

As further discussed throughout the proposal, Resource is a distinguished environmental remediation and demolition firm with over 17 years of experience in the industry. Resource has successfully completed thousands of similar projects, ranging in size from \$10,000 to \$15,000,000, with safety and value engineering as top priorities. A list of references and representative projects is included in this proposal. Resource is experienced and comfortable working in a design-build delivery method and has accounted for unknowns and unforeseen in its pricing.

Resource confirms its proposal exceeds the minimum criteria of the Request for Proposals and all mandatory program and performance requirements have been met. Resource strongly feels its proposal provides the best value to the City and look forward to meeting with Staff for an interview to clarify any questions they may have.

Sincerely,

Chase Tinsley  
Director, Bids and Project Management  
[chase@resource-env.com](mailto:chase@resource-env.com)  
(562) 468-7000



# PROPOSED SCOPE OF SERVICES

Resource Environmental, Inc. is proposing the following scope of services:

- Define scope of demolition to determine to what extent buildings, parking facilities, and subsurface infrastructure need to be demolished. Resource's pricing already assumes the mall structure, anchor buildings, and outer buildings will be demolished, and the site will be left at a rough grade. Utility lines will be capped. Parking areas will have little impact.
- Review all reciprocal easement agreements (REA) on the property.
- Provide engineering evaluation of the demolition to ensure no conflict with other buildings (Harris Building, Enterprise, etc.).
- Review of existing site evaluation report for contamination and provide update site evaluation. While included, this was confirmed not needed per RFI responses.
- Preparation of an asbestos and lead based paint survey report to evaluate the presence and extent of contamination and to provide removal measures for demolition. During the site visits, Resource already started this process. Our consultant performed extensive sampling, allowing us to refine our pricing. This sampling has already been paid for, which allows us to lower our bid.
- Identification of available off-site parking to make up for the parking lost either temporarily or permanently.
- Determine if Harris Building has a legal right to remain attached to the Carousel Mall's Common Building components.
- Evaluation and inclusion of the demolition of the Carousel Mall from the Harris Department Store building, including:
  - o Structural stability
  - o Capping off all utilities
  - o Closing the existing opening between the Mall and the Harris Building.
- Evaluation and inclusion of the demolition of the Carousel Mall from the Andresen/Enterprise building, including:
  - o Structural stability
  - o Capping off all utilities
- Submittal of a complete cost estimate for the demolition. This is attached as Attachment 6.
- Presentation to the City of demolition plans and submit a construction schedule for that purpose.
- Providing 24/7/365 days security of the mall upon approval of the demolition proposal by the Mayor and Council of the City of San Bernardino.

# PERSONNEL

## Information on Primary Project Staff

While Resource is confident in all members of its team, it understands a project of this size, scope, and complexity requires careful consideration in the assignment of staff. The below team has been carefully chosen to manage this project and is skilled, experienced, and knowledgeable in Design-Build abatement and demolition work. All Resource individuals below were actively involved in the projects listed under References and Representative Projects.

- Richard Miller, Co-President & Chief Operating Officer, has over 30 years of experience in environmental remediation and demolition, working his way up from laborer to operator to project manager and now owner. Richard is Resource's Responsible Managing Officer with the Contractors State License Board for the C-21 – Building Moving/Wrecking and C-22 – Asbestos Abatement licenses, as well as the ASB endorsement. Richard's vast wealth of knowledge in the industry is key to the success of Resource's team and will be for this project.
- Brian Shen, P.E, S.E, of Thornton Tomasetti, is Resource's Design-Build partner and selected Engineer of Record. Thornton Tomasetti is a renowned worldwide structural engineering firm, and Brian is the director of its San Francisco office. He provides leadership to the West Region and specializes in existing structures. He is experienced in structural design, assessment, investigation, stabilization, and demolition of a variety of building types and sizes. Resource has worked closely with Brian and his team on dozens of projects, from evaluating the stability of structures with the weight and use of heavy equipment to work plans for unique demolition situations.
- Josh Dome, Co-President & Chief Executive Officer, has decades of leadership experience and over 5 years in the industry. Josh quick, careful thinking and extraordinary business acumen prove pivotal to challenging projects. Josh oversees and assists in managing all aspects of projects, ensuring they are on track and within budget, and steps in to get things back on track on the rare occasions they aren't.
- Cynthia Skiff, Vice President, is a highly skilled, intelligent, forward-looking leader with over 15 years of experience in the construction industry. Cynthia oversees all aspects of the company and directly manages all of the company's finances. She is well-versed in contracts, dispute resolution, change orders, and human resources, as well as abatement and demolition work and compliance. Cynthia is also Resource's Responsible Managing Officer with the Contractors State License Board for the B – General Building Contractor license as well as the HAZ endorsement.
- Chase Tinsley, Director, Bids and Project Management, grew up in the industry and has over 15 years of direct demolition experience. Chase is Resource's Responsible Managing Employee for it's a – General Engineering Contractor license. Chase is highly motivated, detailed, and analytical, helping with all aspects of a project from pre-bid to completion.
- Albert Sanchez, Jr., Sr. Demolition Estimator/Project Manager, has over 10 years of experience in the industry and also began his career in the field. Along with his experience as a laborer and supervisor, Albert brings experience from the hazardous material consulting industry, helping ensure Resource maintains compliance with EPA and SCAQMD regulations.
- Benjamin Serrano, Abatement Estimator/Project Manager, has over 15 years of experience in abatement and demolition – recently climbing the ladder after 10 years as Resource's abatement superintendent. Ben's firsthand knowledge of field conditions, surprises, and challenges helps ensure accurate estimates and exceptional management of his abatement projects.
- Steven Scherbarth, Demolition Superintendent, has over 7 years of experience managing supervisors and field crews of 100+, sometimes overseeing 20 projects simultaneously. Steven is resourceful and tackles problems head-on, ensuring demolition projects are completed safely, on-time, and within budget.
- Mario Medina, Abatement Superintendent, has nearly 20 years of experience in the abatement industry. Like Steven, Mario oversees complex projects with dozens of supervisors and laborers, tracking progress ensuring projects are run safely and on-time, according to plan.

# PERSONNEL

## Resume – Richard Miller, COO

### RICHARD BRADLEY MILLER-PARTNER

(562) 400 – 7560

Los Angeles, CA – 90066

[Miller@resource-env.com](mailto:Miller@resource-env.com)

#### COO

**Subject Matter Expertise: Plant Decommissioning & Industrial Demolitions / Remediation & Demolition Industry**

HIGH VALUE D&D PROJECT LEADERSHIP ■ SAFETY CULTURE & COMMITMENT ■ SUSTAINABLE & PROFITABLE COMPANY GROWTH

**Highly resourceful, strategic-thinking, industry thought leader** offering *30+ years* of hands-on experience in completing 100s of large-scale construction projects, including **20+ years** in providing expert leadership for specialized, complex remediation, demolition, abatement and site restoration projects. Deliver sustainable, profitable growth by managing client relationships, securing new multi-million dollar contracts/business, building competent teams and adhering to strict safety standards. Possess proven industry depth and breadth of knowledge and applied expertise while utilizing value engineering to facilitate cost effective processes to achieve a competitive advantage for the organization. Maintain pristine safety record with no accidents during entire career which included large-scale demolition projects for major organizations. Built valued industry relationships with leading organizations, top stakeholders and high-net-worth clientele.

#### IMMEDIATE VALUE OFFERED

- R DECOMMISSIONING & DEMOLITION:** Deliver consistently high standard of decommissioning services, in full compliance with regulations, across a wide range of plants and industrial sites
- R PROJECT LEADER:** Sterling industry reputation of completing projects on-time with proven ability to accurately bid projects to avoid cost surprises and unanticipated change orders after project launch
- R VALUE ENGINEERING:** Designed and implemented work plans and procedures for some of the largest and most high-profile infrastructure abatement, demolition and environmental remediation projects
- R ESTIMATION:** Managed turnkey projects, from estimating through successful completion, for some of the leading commercial, industrial and governmental/private clients and industrial property owners
- R D&D PROJECT COMMERCIAL OPERATIONS:** Astutely managed budgets, operational & commercial risks, managed compliance, negotiated and secured new contracts (Ex: \$38M Unlimited Environmental)
- R MANAGEMENT & LEADERSHIP COMPETENCIES:** Effectively manage and train large crews across multiple states, while supervising millions of dollars in heavy equipment, managing end-to-end project operations, devising cross-functional processes and strategic decision making
- R KEY PROJECTS:** Sunkist Growers, demolished 19 buildings on 15 acres; VTS1 Space Shuttle (300 ft tall); Gas Holder Tank in Long Beach, CA (125 ft tall); SoCal gas demo of an abandoned plant in active facility

#### CORE COMPETENCIES

##### SPAN OF PROJECTS:

- Demolition & Abatement Projects
- Site Restoration Projects
- Remediation Projects
- Plant Decommissioning

##### MANAGEMENT & LEADERSHIP:

- Leading Large Crews
- New Business Development
- Safety Standards & Management
- Training and Development
- Heavy Equipment Management
- Cross Functional Collaboration
- Strategic Planning/Execution

##### D&D PROJECT OPERATIONS:

- Contract Management
- Bidding Procedures
- Cost Effective Processes
- Project Cost Estimation

##### INTERPERSONAL / SOFT SKILLS:

- Relationship Building
- Deal Negotiations
- Presentations
- Stakeholder Engagements
- Effective Communications

#### PROFESSIONAL WORK HISTORY

OWNER | RESOURCE ENVIRONMENTAL, INC.

JANUARY 2017-PRESENT

Perform an integral role in delivering end-to-end leadership and managerial support with full accountability for building all aspects of the demolition division from inception including manpower, operational processes & procedures and daily project standards. Leverage advanced industry knowledge and professional acumen to strategically guide organization through the critical developmental phase, while hiring, coaching, training and developing project crew members, establishing project operations, and ensuring the highest levels of safety standards are maintained.

- ♦ **Oversee and manage** client relationships, secure new business engagements, and all aspects of safe and profitable project execution
- ♦ **Execute strategic industry-focused goals** in alignment with company objectives such as driving revenue growth, profitability and maintaining the highest levels of safety management standards
- ♦ **Leverage industry network** and business relations while operating across public & private sectors to secure new business engagements
- **Manage site operations** and lead a team of **30+ personnel**
- **Strategically identify new bidding opportunities.**
- **Communicate** with valued clientele and manage all project requirements

# PERSONNEL

## Resume – Richard Miller – Continued

### RICHARD BRADLEY MILLER

(562) 400 – 7560

Los Angeles, CA – 90066

[Miller@resource-env.com](mailto:Miller@resource-env.com)

#### PROFESSIONAL WORK HISTORY CONTINUED...

UNLIMITED ENVIRONMENTAL, INC.

2008 – 2016

DIVISION HEAD AND SITE LEADER FOR DEMOLITION & ABATEMENT

**Brought on board** to build the demolition business and abatement unit from inception to implementation. Succeeded in enabling demolition business growth **from \$0 to \$38M+ within 7.5 years**. Strategically developed and cultivated business strategies & procedures in collaboration with civil engineers to improve reliability and consistency of demolition and abatement projects. Maintained full accountability for monitoring all aspects of site operations, project estimation, safety standards and cost effective process implementation. Supervised diverse crews, overcame environmental barriers and created new strategies to improve project functionality and operational efficiency. Delivered recommendations for implementing industry best practices regarding safety standards and cost effective processes to optimize overall execution.

#### REMEDICATION & DEMOLITION PROJECTS:

- ♦ **2010 – 2013: Sunkist Growers, Ontario** – Performed project estimation and due diligence to remediate 1M+ SF of fire proofing removal, transit panels and ground remediation, along with demolition of razing 19 structures – **Results:** Gained over \$1M of recycled metals, by removing 30k tons of contaminated soils and crushing 70k tons of concrete graded over site for new build
- ♦ **2013: Sempra/Southern California Gas, Montebello CA** – Estimated and managed remediation & demolition of abandoned gas plant. Systematically purged and remediated 5k+ lineal feet of pipe and miscellaneous equipment. Craned over live high pressure gas lines utilizing 350 ton crane. – Torched 110k tons of 4 Catalysts Vessels – **Results:** Generated 3,800+ tons of scrap materials

#### ABATEMENT & DEMOLITION PROJECTS:

- ♦ **2013 – 2014: Friars Club, Beverly Hills CA** – Project managed abatement and demolition through shrink wrapping entire building to protect the adjacent Beverly Hills Hilton and Peninsula Hotels
- ♦ **2013: UCLA Engineering 1A Building, Los Angeles, CA** – Project managed removal of floor tile, mastic, TSI piping, and the razing of the 68,000 sq ft building – Closely collaborated with senior management to remove over 1000 truckloads of debris during school hours

#### ABATEMENT, DEMOLITION & RESTORATION

- **2014 Beale AFB, Marysville Balfour Beatty Construction** – 505 military family homes – Accomplished the project on time (within two years) and within budgets – **Total Cost: \$5.8m**
- **2015 Cannon AFB, New Mexico Balfour Beatty Construction** – 401 military homes - \$4.5M – Results: Applauded and recommended by the client and the Air Force after the successful completion at Beale AFB
- **2016 CSUMB Big Demo Phase I, Formerly Fort Ord** – Processed 60k+ tons of concrete – razed of 10 former military concrete structures three story high over 750,000 SF site
- **2016 CSUMB, Shamata Yard** – Razed 12 buildings of the former military maintenance yard

MARCOR ENVIRONMENTAL, LP

2003 – 2008

SENIOR DEMOLITION PROJECT MANAGER FOR SOUTHERN CALIFORNIA

**Charged with full responsibility** for the management and success of large-scale construction projects including customer relations, pre-construction, bid processes, health & safety issues, environmental concerns, and the cost/value of operations. Implemented and maintained company strategy and policies for sustainability, health & safety, quality, environmental, training and development. **Led 30+ member project crew**, while ensuring operational readiness of heavy equipment ranging from heavy iron, excavators, cranes, track loaders, skid steers, forklifts, and multiple attachments including sheers, breakers, processors and magnets. Strategically implemented cost effective cross-functional team processes.

#### ABATEMENT, DEMOLITION & BACKFILL PROJECTS:

- ♦ **2004 – 2005: Del Amo Fashion Center, East Wing** - over 600,000 SF of the east wing of the mall – Abatement of the entire roof, floor tile and mastic, fireproofing and TSI throughout, along with demolition of the razing of the entire east wing. Removed 3300+ tons of concrete
- ♦ **2004: Ray Arts Studios, Canoga Park** – 11 acre abatement and demolition project. Crushed concrete and left for future grading
- ♦ **2003: Target, Tucson:** Project managed the \$1.7 million abatement, demolition and backfill of 250,000 SF building in three months – administered basement walls breaking to 7' down and backfilling with 110,000 cubic yards of soil

- **Aided business development efforts** and project managed contract work for the organization
- Managed abatement & demolishing of multiple buildings at **Aberdeen Proving Grounds and the Federal Building**
- Managed interior demolition of two buildings (**Amgen, Thousand Oaks**) in 2007, with 100% operational readiness during project continuation

# PERSONNEL

## Resume – Richard Miller – Continued

### RICHARD BRADLEY MILLER

(562) 400 – 7560

Los Angeles, CA – 90066

[Miller@resource-env.com](mailto:Miller@resource-env.com)

#### PROFESSIONAL WORK HISTORY CONTINUED ...

MARCOR ENVIRONMENTAL, LP

2003 – 2008

SENIOR DEMOLITION PROJECT MANAGER FOR SOUTHERN CALIFORNIA

##### REMEDICATION AND DEMOLITION:

- ♦ **2006: Microsemi Semiconductor Plant, Santa Ana** – Semiconductor Plant: Abated of all hazardous materials; demolished ¾ of the building, shoring the remaining walls for future build. Project time – 4 months
- ♦ **2005: Excide Battery Plant, City of Industry** – 8 acre Site – Managed asbestos abatement, along with isolated contaminated concrete and soils. Crushed 20,000 tons of concrete and left onsite

- Shared best practices and supported management in decision making
- Managed estimation and project costing to ensure accuracy, profitability and competitive edge
- Ensured commercial considerations and never compromised crew safety

DAMILLE METALS, INC.

1983 – 2001

OPERATIONS MANAGER / PROJECT ESTIMATION MANAGER

Earned fast-track promotions based outstanding performance in diverse on-site operational roles and as a heavy equipment operator on demolition sites. Promoted to **Demolition Supervisor**, and later on assigned a leadership role as the **Head of Demolition Operations**. Guided organizational growth through initiating decommissioning of plants, while developing organizational capabilities in industrial demolition.

##### MILESTONE PROJECTS:

- ♦ **1995: Rocketdyne, Santa Susana** - Efficiently managed demolition of the 300' tall original space shuttle VTS1 testing pad at Rocketdyne (now Pratt Whitney) in Santa Susana – **Results:** Recycled over 5000 tons of steel and 500 tons of non-ferrous generating **\$1M+ in scrap**
- ♦ **1995: Kaiser Steel Generating Plant, Fontana** – Demolished an abandoned generating plant at Kaiser Steel in 9 months – cut 1000+ tons of copper windings and delivered to mills for recycling. **Results:** Project generated **\$3.5+ million** with over 3000 tons of steel
- ♦ **1996: JR Simplot El Centro Amonia Nitric Acid Plant** – Dismantled 80% of the plant and sold for reuse – Abated over 1.5 million dollars of asbestos removal; 50k+ LF of pipe was removed and sold for reuse. **Results:** Generated **\$3M+ in assets recovery and \$1M in scrap**
- ♦ **1996: Geo Thermal Plant, El Centro** – Demolished a non-operating geo thermal plant. **Results:** Sale of the turbine and the recycling of ferrous and non-ferrous metals generated **\$2M+ in salvage and scrap**

- Provided project leadership to 120+ workers, 14 excavators, 28 trucks and over 2500 roll-off bins
- Dismantled a gas holder across the street from the Long Beach Airport, tank was a 125' tall and over 100' round tank, in a (6) month time frame – **Results:** Generated 3000+ tons of reusable plate, cut into 8' x 4' pieces
- During early tenure gained expertise in operating heavy equipment in refineries such as, TOSCO, Texaco, Shell and Mobil
- Acquired in-depth knowledge for operating excavators, shears, loaders and other types of heavy equipment

#### EDUCATION QUALIFICATIONS

COMPLETED 11 HUMAN RESOURCES COURSES AT PHOENIX UNIVERSITY (IN-PERSON)

- Gained insight into people management, HR operations and team leadership processes

CSS CERTIFICATION FROM THE NATIONAL SAFETY COUNCIL

- Engaged in comprehensive safety training pre-industry requirements
- Completed all required courses while also training at various companies with a focus on safety standards

CSLB Class C-21, C-22, ASB Licenses – RESPONSIBLE MANAGING OFFICER for RESOURCE ENVIRONMENTAL, INC.

CERTIFIED ASBESTOS SUPERVISOR 40-HOUR COURSE

CERTIFIED HAZWOPER 40-HOUR COURSE

LEAD AND OSHA CERTIFIED 40-HOUR COURSE

#### PROFESSIONAL AFFILIATIONS

National Demolition Association (NDA), Member | Institute of Scrap Recycling Industries (ISRI), Member

# PERSONNEL

## Resume – Brian Shen, P.E., Engineer-of-Record

### BRIAN SHEN, P.E., S.E., LEED AP

Principal, San Francisco Office Director



#### Summary

Brian Shen is office director for the San Francisco office and a member of the Forensics practice. He provides leadership to the West Region and specializes on work with existing structures. He has extensive experience in the structural design, assessment, investigation, stabilization and demolition of a variety of building types and sizes. Brian's design experience includes specialization in healthcare, working on both existing facilities and new-build construction. Additionally, Brian has experience in a variety of market sectors, including education, justice, life sciences and corporate commercial, with design-build, design-assist, as well as traditional design-bid-build deliveries.

#### Education

- M.S., Civil Engineering, 2000, University of California, Berkeley
- B.S., Civil Engineering, 1999, University of Arizona

#### Registrations

- Licensed Professional Engineer in CA, GA, ID, MT, OR, TX, WA
- Licensed Structural Engineer in CA, AZ, GA, HI, ID, NV, OR, UT, WA
- LEED AP
- Registered California Emergency Management Agency Safety Assessment Program Evaluator

#### Professional activities

- Member, American Institute of Steel Construction
- Member, Structural Engineers Association of Northern California

#### Select project experience

**State Route 47 Schuyler Heim Bridge, Deconstruction Engineering**, Long Beach, CA. Structural engineering for deconstruction of an existing bridge spanning an active waterway, with an immediately adjacent rail bridge and the overhead replacement bridge. Scope includes assisting in the deconstruction sequence, evaluating the existing construction trestle, and on-site monitoring of demolition of existing piers above and below the water surface.

**El Camino Hospital, Sobrato Pavilion and Parking Garage**, Mountain View, CA. Structural engineering for a seven-story structure housing cancer, heart, vascular and neuroscience outpatient services. The project scope includes demolishing an existing 120,000-square-foot building that is adjacent to two active acute care buildings.

#### **El Camino Health, Taube Pavilion and Scrivner Center for Mental Health & Addiction Services**, Mountain View, CA.

Structural engineering for a two-story behavioral health services building. Scope involved the phased demolition of an existing behavioral health services building and an expansion of utility capacity in the adjacent central utility plant.

**El Camino Hospital Old Main Phased Demolition and Construction**, Mountain View, CA. Structural engineering for the phased demolition of the Old Main Hospital and renovation of lab / laundry and loading dock. Scope of work includes planning and designing shoring as required for phased demolition of the existing structure considering influences and dependencies of nearby structures, such as surcharges from adjacent footings or the shoring of existing retaining walls.

**NorthBay Medical Center, Central Utilities Plant Replacement**, Fairfield, CA. Structural engineering for a new central utility plant to replace an existing, aging plant. A primary challenge was to ensure that utility tie-ins had no impact on other existing utilities or surrounding structures.

**El Camino College, Student Services and Student Activities, Demolition**, Torrance, CA. Structural engineering for the demolition of two buildings on a community college campus. Thornton Tomasetti provided equipment loading and debris stockpiling analysis on the roof and elevated floor slabs for construction safety.

**Naval Air Weapons Station, China Lake Repair Boiler Plant 4**, Ridgecrest, CA. Structural engineering for the demolition of a building originally constructed in the late 1940s. Thornton Tomasetti sequenced selective demolition scope, verified the horizontal lifeline and fall protection components, and validated the loads imposed on the existing structure.

**Naval Air Weapons Station, China Lake Michelson Laboratory**, Ridgecrest, CA. Structural engineering for the demolition of a laboratory building originally constructed in the mid-1940s and consisted of several wings with varying story heights.

**Thornton Tomasetti**



# PERSONNEL

Resume – Joshua Dome, CEO

## JOSHUA DOME

CEO/ CO- President

### PROFILE

- Strong work ethic with a high degree of integrity and ability to earn respect and trust through performance and accomplishment.
- Personable and natural communicator able to persuasively relate complex concepts across a diverse audience.
- Results-oriented strategic thinker with analytical, logical, and resourceful approach to problem-solving and decision-making.
- Effective and accountable leader and team player with innate ability to motivate, mentor, and lead by example.
- A resourceful, versatile businessperson with high proficiency and experience in driving top and bottom line growth through innovative business development strategies and successful implementation.
- Proven track record of delivering extraordinary results in operational performance while overcoming business challenges.

### CONTACT

PHONE:  
310-429-5233

EMAIL:  
Josh@resource-env.com

## WORK EXPERIENCE

### Resource Environmental, Inc. CEO

May 2018 - Present (4 years 4 months)  
Cerritos CA

Resource Environmental, Inc. is a hazardous material abatement and demolition contracting company. Our focus is simple; lead with safety, build relationships and deliver quality. We are a full-service hazardous material abatement and demolition contractor self-performing all work with in-house staff and owned equipment. We complete projects throughout the State of California, from San Diego to Eureka and provide services for a wide array of industries/markets including:

- Commercial — High/Low-Rise Office, Shopping Centers, Hotels, Multi-Tenant Apartment Buildings, Aerospace, Movie Theaters
- Government — Federal, State and Local Government Facilities, Military Installations, Utilities
- Industrial — Processing/Power Plants, Oil Refineries, Paper Mills, Manufacturing
- Institutional — Hospitals, Schools, Colleges & Universities, Churches, Amusement Parks, Airports

### Informa Global Exhibitions Vice President, Business Development January 2017 - April 2018 (1 year 4 months) Los Angeles, California

Driving revenue and profit growth through customer success. Pursuing organic, acquisition and partnership initiatives across a variety of verticals.

## PERSONNEL

### Resume – Joshua Dome - Continued

#### **Consultant**

##### **Business Growth Specialist**

**March 2016 - December 2016 (10 months)**

Providing business growth strategy (+ implementation) for companies seeking to grow, modernize and expand into adjacencies, while maximizing their current market position and operation. Areas of focus include sales, marketing (strategy, technology, automation), content, organizational alignment, and overall business development.

#### **UBM Americas**

##### **Managing Director, UBM Americas, Advanced Mfg. Group**

**November 2013 - February 2016 (2 years 4 months)**

**Santa Monica, CA**

- Overall operational, P&L and strategic direction of the business including multiple event and b-to-b media brands.
- Led small, medium and large teams across sales, marketing, content, engineering/web development, operations, production, finance and HR.
- Strategically redesigned business (and products) from older, traditional b-to-b media company to an events-first communications business with emphasis on sales and marketing effectiveness, audience acquisition, content marketing and digital progression resulting in improved rate of growth and long-term sustainability.



## PERSONNEL

### Resume – Joshua Dome - Continued

#### **UBM Canon**

##### **Portfolio Director, North American Events- 13 years**

**October 2011 - October 2013 (2 years 1 month)**

- Managed all aspects of sales, marketing, and execution for eight event brands culminating in thirty annual shows across North America.
- Responsible for P&L management, strategy and high-level operational initiatives including acquisitions.
- Developed and introduced new product launches including trade shows, conferences and digital media resulting in increased revenue from \$45m to \$52m + in two years.
- Led group of 50+ talented sales, marketing, business development, operational, administrative and finance/accounting professionals.

##### **Director of Sales, Events**

**June 2005 - October 2011 (6 years 5 months)**

- Managed sales for eight event brands totaling \$45m + million in annual revenue.
- Led group of twenty-two salespeople in consistently exceeding annual targets.
- Doubled revenues over 5-year period through organic growth initiatives, event launches and acquisitions.
- Led substantial growth of non-exhibition revenue in sponsorships, online content marketing programs and data products.

##### **Group Sales Manager, Events**

**June 2003 - May 2005 (2 years)**

##### **Sales Executive, Events**

**November 2000 - May 2003 (2 years 7 months)**

## PERSONNEL

### Resume – Cynthia Skiff, Vice President

# Cynthia Skiff

Vice President

**Address** Alhambra, CA, 91803

**Phone** (619) 279-2896

**E-mail** cynthia@resource-env.com

Results-driven Vice President with forward-thinking approach centered on company success and competitive growth. Demonstrated record of success in building successful teams and managing profitable operations.



## Skills

- ◆ Performance metrics analysis
- ◆ Policy and procedure development
- ◆ Relationship building and retention
- ◆ Financial administration
- ◆ Financial Management
- ◆ Business planning
- ◆ Business administration
- ◆ Relationship building
- ◆ Customer and employee rapport



## Work History

- ◆ **Feb 2018 - Vice President**  
**Current**

*Resource Environmental, Inc., Cerritos, CA*

- Identified issues with production, workforce and material sourcing and implemented successful solutions.
- Spearheaded cross-functional initiatives across departments to achieve business goals for bottom-line profits.
- Resolved issues and recommended actions based on production and compliance reports.
- Monitored industry trends, keeping current on latest changes and competition in industry.

# PERSONNEL

## Resume – Cynthia Skiff - Continued

- Identified opportunities to improve business process flows and productivity.
- Increased workflow by analyzing data and maximizing opportunities for improved productivity across several areas.
- Employed optimal safety practices to reduce worksite complaints and hazards.
- Demonstrated proficient leadership skills to motivate employees and build competent teams.
- Established performance goals for department and outlined processes for achievement.
- Oversaw accounts payable and receivable to track income and expenditures, drive statutory compliance and provide quantitative financial information.
- Completed in-depth analyses of risks to control company profile, enhance systems and track legal concerns.
- Oversaw deployment of strategic business plans to accomplish accounting, compliance and revenue targets.
- Conducted detailed analysis of company financial information to drive internal and external financial reporting, stewardship of company assets and ownership of cash management.
- Prepared accurate financial statements at end of quarter to summarize financial health and performance of business.

Feb 2015 -  
Feb 2018

### **General Manager**

*Unlimited Environmental, Inc., Long Beach, United States*

- Drove year-over-year business growth while leading operations, strategic vision and long-range planning.
- Prepared annual budgets with controls to prevent overages.
- Implemented operational strategies and effectively built customer and employee loyalty.
- Delivered business strategy and developed systems and procedures to improve operational quality and team efficiency.
- Oversaw high-volume accounting operations with four-person team focused on efficient budget administration, AP/AR and other financial management needs.
- Checked payroll, vendor payments, commissions and other accounting disbursements for accuracy and compliance.
- Prepared cash flow projections, cost analysis and monthly, quarterly and annual reports.

Jan 2012 -  
Feb 2015

### **Office and Information Manager**

*ARYA Group, Inc., Los Angeles, United States*

- Established workflow processes, monitored daily productivity and implemented modifications to improve overall performance of personnel.
- Sourced vendors for special project needs and negotiated contracts.
- Compared vendor prices and negotiated for optimal savings.

# PERSONNEL

## Resume – Cynthia Skiff - Continued

- Updated reports, managed accounts and generated reports for company database.
- Implemented project management techniques to overcome obstacles and increase team productivity.

Jan 2005 -  
Jan 2012

### Area Office Manager

*F. Rodgers Corporation, Ontario, CA*

- Established workflow processes, monitored daily productivity and implemented modifications to improve overall performance of personnel.
- Analyzed data related to administrative costs and spending trends to prepare budgets for personnel.
- Optimized organizational systems for payment collections, AP/AR, deposits and recordkeeping.
- Reviewed client and staff feedback and made appropriate business adjustments to meet needs and address concerns.
- Supported change management by understanding and addressing impacts of new accounting policies, financial statement initiatives and non-standard transactions.
- Checked payroll, vendor payments, commissions and other accounting disbursements for accuracy and compliance.
- Supported financial director with special projects and additional job duties.



### Education

#### Bachelor of Science: Business Management

*San Diego State University - San Diego, CA*



### Certifications

RMO for B General Building License Classification

RMO for HAZ Hazardous Substance Removal License Classification

# PERSONNEL


## Resume – Chase Tinsley, Director, Bids and Project Management


### Chase J Tinsley

#### Director

Highly-motivated, detail-oriented construction manager with over 10 years of experience in the demolition and hazardous material abatement/remediation industries. Licensed General Engineering Contractor. With perseverance and drive, successfully built strong foundations for continued growth with current employer, increasing revenue and broadening company experience. Facilitated multi-million dollar demolition and abatement projects acting as both prime contractor and subcontractor. Strong oral and written communication in dispute resolution, contract & change order negotiation, and bid protests. High level of industry knowledge. Hard working and strives for growth.

 chase@resource-env.com

 530-379-6687

 linkedin.com/in/chase-tinsley-400968a0

### SKILLS

Demolition   Decommissioning   Hazardous Materials   Abatement   Remediation   Project Management   Bid Management  
Bid Protests   Bid and Prequalification Strategy   Contract Management   Change Orders   Public Works   Federal/Military  
Labor Compliance   Dispute Resolution   Submittals   Work Plans   Scheduling   Business Development

### WORK EXPERIENCE

#### Director, Bids and Project Management Resource Environmental, Inc.

09/2018 - Present

Cerritos, CA

Demolition (Structural, Selective & Interior), Asbestos & Lead Abatement, Soil Remediation, Plant Decommissioning

##### Achievements/Tasks

- Oversee the preparation and submission of all bids and proposals. Review pricing from estimators to ensure accuracy and compliance with specifications. Solicit and guide subcontractors. Strategize bid pricing. Complete detailed bid protests when appropriate, with an 80% success rate in 2021.
- Search for bid and prequalification opportunities. Strategize workarounds for experience deficiencies. Successfully obtained three City of LA master contracts and prequalified with LACCD for its PQSP 5 Mil and Under Program. Resource is the only demolition/abatement contractor currently prequalified - the program is tailored for General Contractors.
- Oversee, assist, or directly manage demolition and abatement projects ranging in size from \$100,000 to over \$5,000,000. Encourage company growth by competing for and completing non-demolition/abatement contracts with similarities to accustomed work. List of projects available upon request.
- Persistently encouraged company participation in the 2020 Wildfire Debris Cleanups. Successfully obtained a subcontract generating \$3,750,000 in revenue in 2.5 months with only 3 crews. Directly managed the project.
- Oversee (or directly prepare, when high aptitude is necessary) the development of detailed work plans and agency submittals, permits, CPM scheduling, waste management reporting, and safety programs.
- Class A General Engineering Contractor License - Responsible Managing Employee

#### Office Manager/Project Manager TJ Demolition and Excavation

03/2013 - 09/2018

Woodland, CA

##### Achievements/Tasks

- Directly managed all tasks required for a small business, including Accounts Payable, Accounts Receivable, G/L, Financial Analysis, Payroll, Labor Compliance.
- Estimating/Project Management. Notable projects include Beale AFB housing demolition of 100+ homes and Phase 1 Demolition at Sierra Army Depot.
- Prepared bids and proposals, managed contracts, developed relationships with General Contractors.

#### Asst. Office Manager/Project Coordinator Delta Oilfield Services, Inc.

06/2011 - 03/2014

Woodland, CA

Demolition & Trucking

##### Achievements/Tasks

- Assisted or directly managed all tasks required for a small business, including Accounts Payable, Accounts Receivable, G/L, Financial Analysis, Payroll, Labor Compliance.
- Estimating/Project Management. Notable projects include IDIQ demolition contracts at Travis AFB, On-Call Caltrans Demo, and Cache Creek Casino.
- Assisted in the preparation of bids and proposals.
- Assisted with bin and equipment rentals.

# PERSONNEL

Resume – Albert Sanchez, Jr., Sr. Demolition Estimator/Project Manager

## SKILLS

### ALBERTO SANCHEZ JR

**Demolition and Abatement  
Estimator and Project  
Manager**

#### PROFILE

- 10+ years of experience in hazardous material abatement and demolition industry— asbestos, lead, mold, soft and structure demolition.

#### CONTACT

PHONE:  
562-447-3386

EMAIL:  
albert@resource-env.com

- Managed client technical interface to ensure client project expectations are understood and that the project staff exceed the expectations while maintaining projected revenue and profit goals.
- Monitor and manage the progress, budget and schedule of all assigned projects.
- Oversee contractor activities and ensure they are executed in accordance with the construction schedule, design, federal, state and local regulations.
- Responsible for all phases of work, including developing bid opportunities for demolition, site clearing/remediation and abatement projects; estimate project values, prepare/submit bid proposals, review all phases of construction contracts, direct interaction with client for contract negotiations and project management, manage job costing to ensure project profitability and manage all aspects of filed work from start to finish.
- Managed small and large-scale Demolition and abatement projects.
- Thorough knowledge of local, state and federal rules and regulations applicable to asbestos and lead remediation construction work.
- Proven record of completing remediation projects on schedule, without budget overruns and in a safe, healthful and regulatory compliant manner.
- Thorough understanding of and experience in implementing corporate health and safety programs at the jobsite.
- Develop Job Hazard Analyses, Task Hazard Analyses, Activity Hazard Analyses.
- Develop company safety programs and policies.
- New hire training

## PERSONNEL

Resume – Albert Sanchez, Jr. – Continued

- Job-site safety audits
- Conduct monthly safety meetings.
- Ensure OSHA and EM-385 safety compliance

## WORK EXPERIENCE

### **Resource Environmental, Inc**

Demolition & Abatement Estimator & Project Manager

2014- present

### **H2 Environmental, Inc**

Project Manager 2012-2014

### **Unlimited Environmental**

Foreman - 2011-2012

# PERSONNEL

Resume – Benjamin Serrano, Abatement Estimator/Project Manager

## BENJAMIN SERRANO

Estimator/ Project Manager

### PROFILE

- 20 years of experience in hazardous material abatement industry- asbestos, lead, mold, soft and structure demolition
- Certified Asbestos Abatement Contractor Supervisor since 2005.
- Managed field activities as both an Onsite Competent Person and as a Project Superintendent/ Manager on small and large - scale abatement projects.

### CONTACT

PHONE:  
562-292-2238

EMAIL:  
Benjamin@resource-env.com

## SKILLS

**Experienced in the abatement of hazardous materials from commercial sites, including:**

- Power plant & Refinery
- Hospital & School
- High rise & Military
- Emergency fire disaster cleanup

**Experienced in the abatement of hazardous materials from residential sites, including:**

- Single family homes
- Apartments & condominium complexes

**Thorough knowledge of local, state and federal rules and regulations applicable to asbestos and lead remediation construction work. Proven record of completing remediation projects on schedule, without budget overruns and in a safe, healthful and regulatory compliant manner.**

**Thorough understanding of and experience in implementing corporate health and safety programs at the jobsite:**

- construction of containment's
- setup of engineering controls
- utilization of safe and compliant work practice
- implementation of employee exposure monitoring
- appropriate and proper use of personal and respiratory protection equipment

## WORK EXPERIENCE

### **Resource Environmental, Inc**

Project Manager/ Estimator – 01/2022 to current  
Construction Superintendent- 03/2015 to 1/2022

### **Alliance Environmental Group, Inc**

Asbestos Supervisor- 07/2007 to 03/2015

### **National Demolition, Inc.**

Asbestos Supervisor- 02/2005 to 07/2007

### **TEG/LVI**

Asbestos Worker—1/2022 to 2/2005



# PERSONNEL

Resume – Steven Scherbarth, Demolition Superintendent

## STEVEN SCHERBARTH

**Demolition  
Superintendent**

### PROFILE

- 9 years of experience in the hazardous material abatement and demolition industry - including selective, structural, and interior-demolition.
- Certified Asbestos Abatement Supervisor, Fall Protection Certified, HAZWOPER Certified, OSHA 30 Certified
- Managed field activities as both an Onsite Competent Person and as a Project Superintendent for crew sized between 3 -50 manpower.

### CONTACT

PHONE:  
714-321-0748

EMAIL:  
sscherbarth@resource-env.com

## SKILLS

- direct interaction with clients for continued productivity and safety on job sites; manage job costing to ensure project profitability; oversee and provide quality control of all aspects of field work from start to finish
- Experienced in the demolition and abatement of hazardous materials from commercial sites, including:
  - hospital
  - schools
  - high rise
  - refinery
  - military
  - fire disaster recovery demolition
- Experienced in the demolition and abatement of hazardous materials from residential sites, including:
  - -apartment and condominium complexes
- Enforce local, state and federal rules and regulations applicable to demolition, asbestos and lead remediation work.
- construction of containments
- setup of engineering controls and BMPs
- utilization of safe and compliant work practice
- implementation of employee exposure monitoring
- appropriate and proper use of personal and respiratory protection equipment

## PERSONNEL

Resume – Steven Scherbarth – Continued

### WORK EXPERIENCE

**Resource Environmental, Inc**

Demolition Superintendent 2017- present

**Unlimited Environmental**

Demolition Superintendent - 2015-2017

Demolition Laborer- 2013-2014

# PERSONNEL

Resume – Mario Medina, Abatement Superintendent

## MARIO MEDINA

**Abatement Superintendent**

### PROFILE

- 17 years of experience in hazardous material abatement industry- asbestos, lead, mold, soft and structure demolition
- Certified Asbestos Abatement Supervisor, DHS Lead Supervisor Certified, Hazardous Waste Operations Emergency Response, OSHA 30 Certified
- Managed field activities as both an Onsite Competent Person and as a Project Superintendent/ Manager on small and large - scale abatement projects.

### CONTACT

PHONE:  
562-702-8493

EMAIL:  
Mario@resource-env.com

## SKILLS

- Startup and management of day-to-day operations; conceive and implement long-term corporate strategies; comprehensive management responsibility for all phases of construction contract work across the organization: review/execute all phases of construction contracts, oversee and provide quality control of all aspects of field work from start to finish.
- Assist/oversee day-to-day operations of company; comprehensive management responsibility for all phases of construction work including abatement, demolition and environmental remediation; review/execute all phases of construction , direct interaction with clients and project management, manage various projects, oversee and provide quality control of all aspects of field work from start to finish manage multiple job site over see field foreman to accomplish jobs on schedule, make safety a number # 1 priority.
- Experienced in the abatement of hazardous materials from commercial sites, including:
  - hospital
  - schools
  - high rise
  - refinery
  - military
  - emergency fire disaster cleanup
- experienced in the abatement of hazardous materials from residential sites, including:
  - apartment and condominium complexes

## PERSONNEL

### Resume – Mario Medina - Continued

- Enforce local, state and federal rules and regulations applicable to asbestos and lead remediation construction work.
- construction of containment's
- setup of engineering controls
- utilization of safe and compliant work practice
- implementation of employee exposure monitoring
- appropriate and proper use of personal and respiratory protection equipment

## WORK EXPERIENCE

### **Resource Environmental, Inc**

Abatement Superintendent 2013- current

### **Unlimited Environmental**

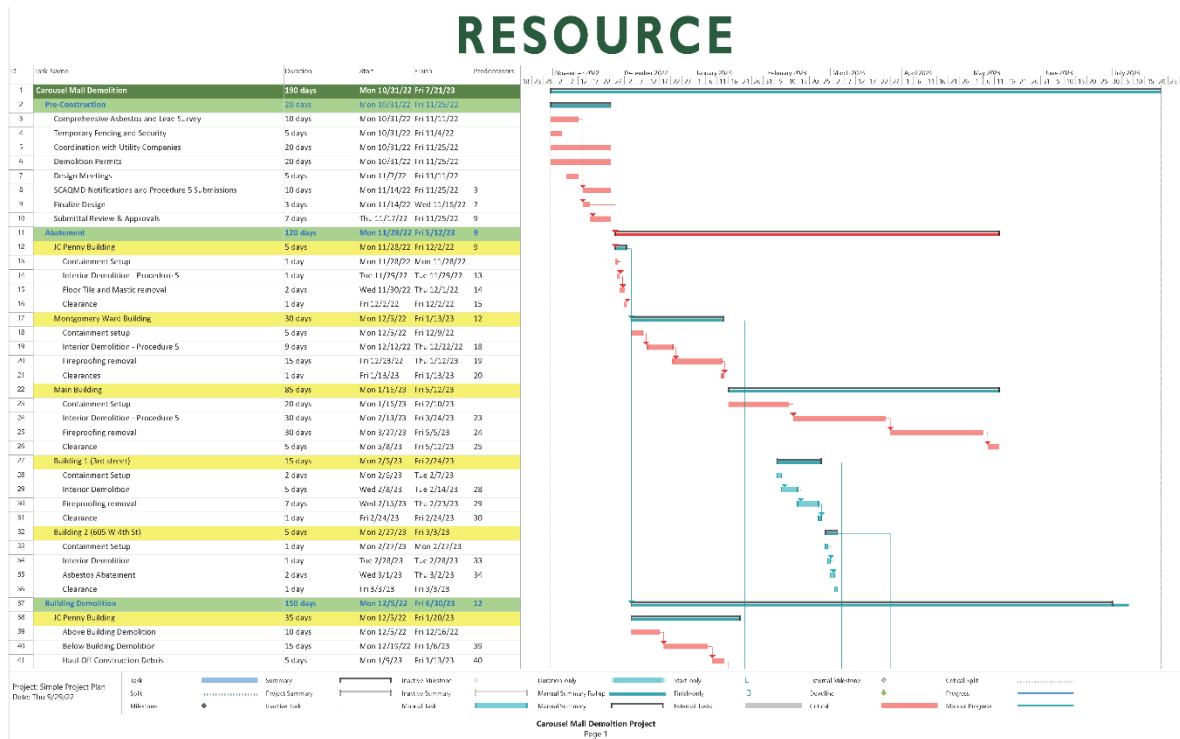
Abatement Supervisor- 2007-2013

### **Air Inc. Environmental**

Abatement Lead Man - 2005 - 2007

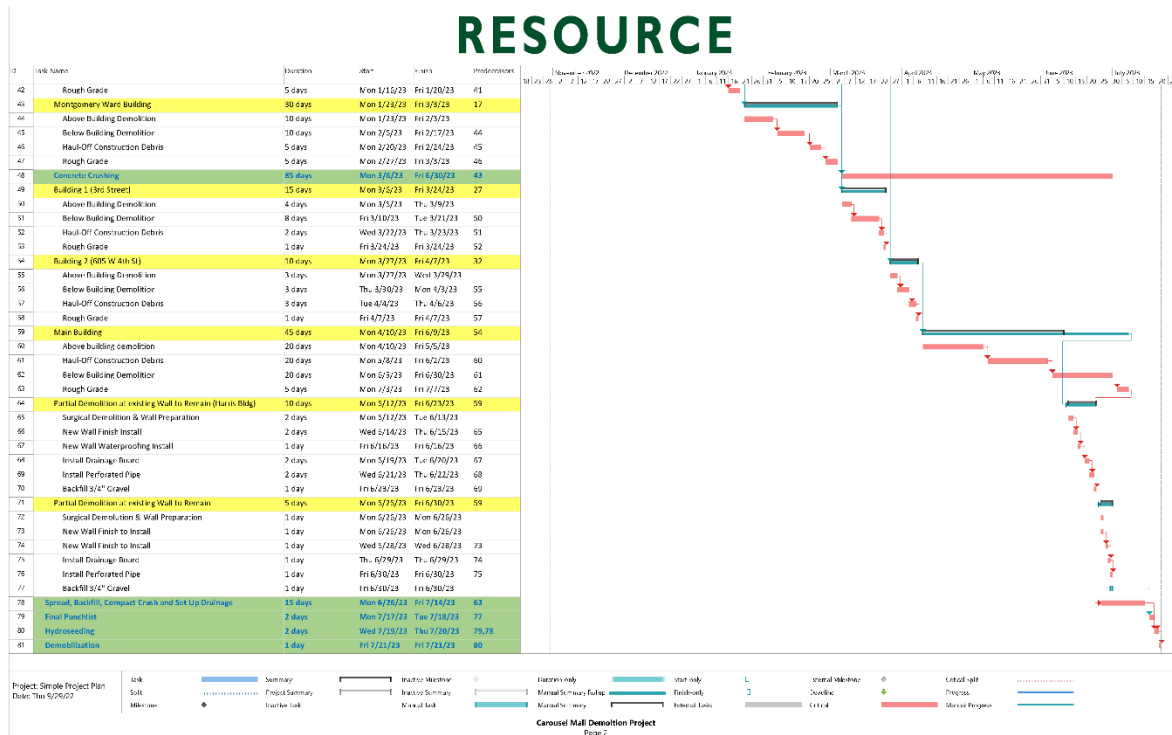
Project Schedule [folded and stapled attached]

Thumbnail Below



Project Schedule - Continued [folded and stapled attached]

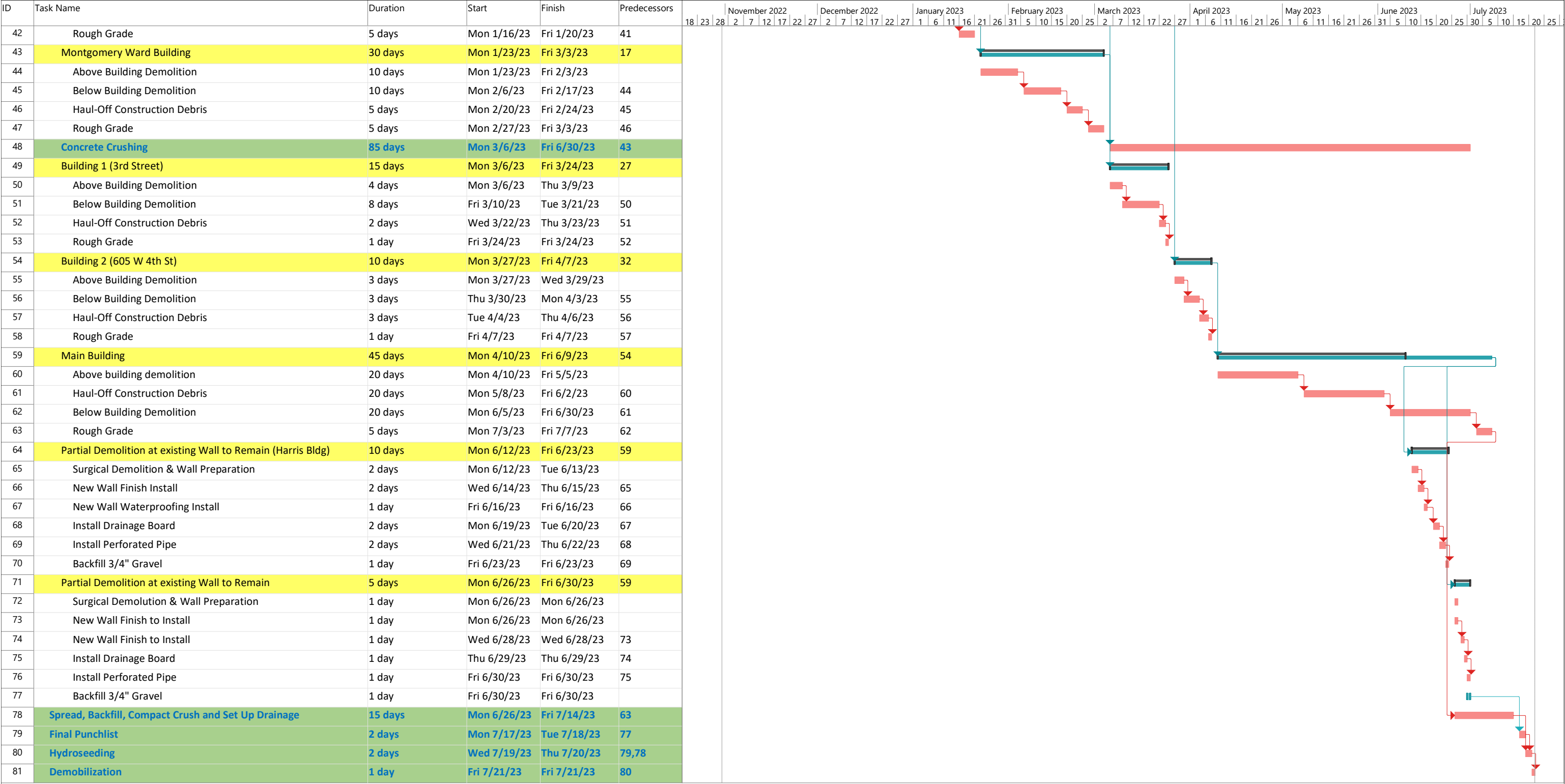
Thumbnail Below



# RESOURCE



# RESOURCE



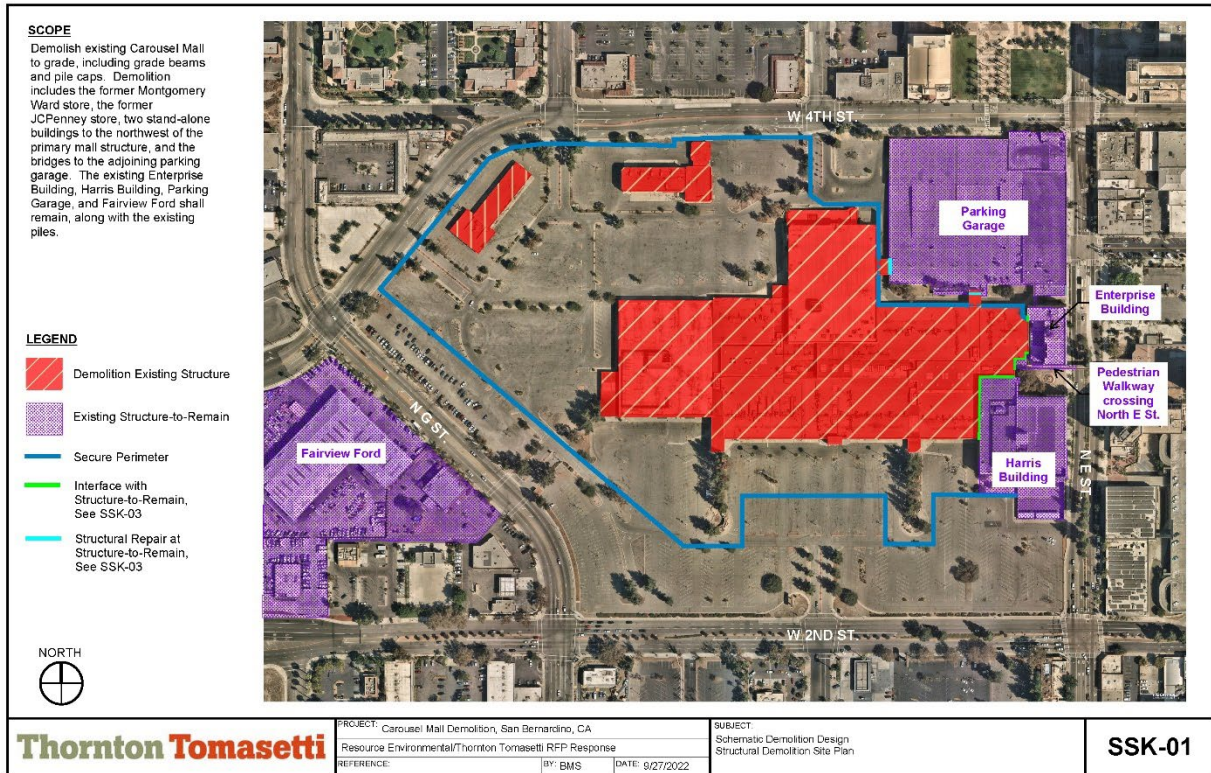


# UNDERSTANDING OF PROJECT

## Schematic Drawings

SSK-01 [folded and stapled attached]

Thumbnail Version








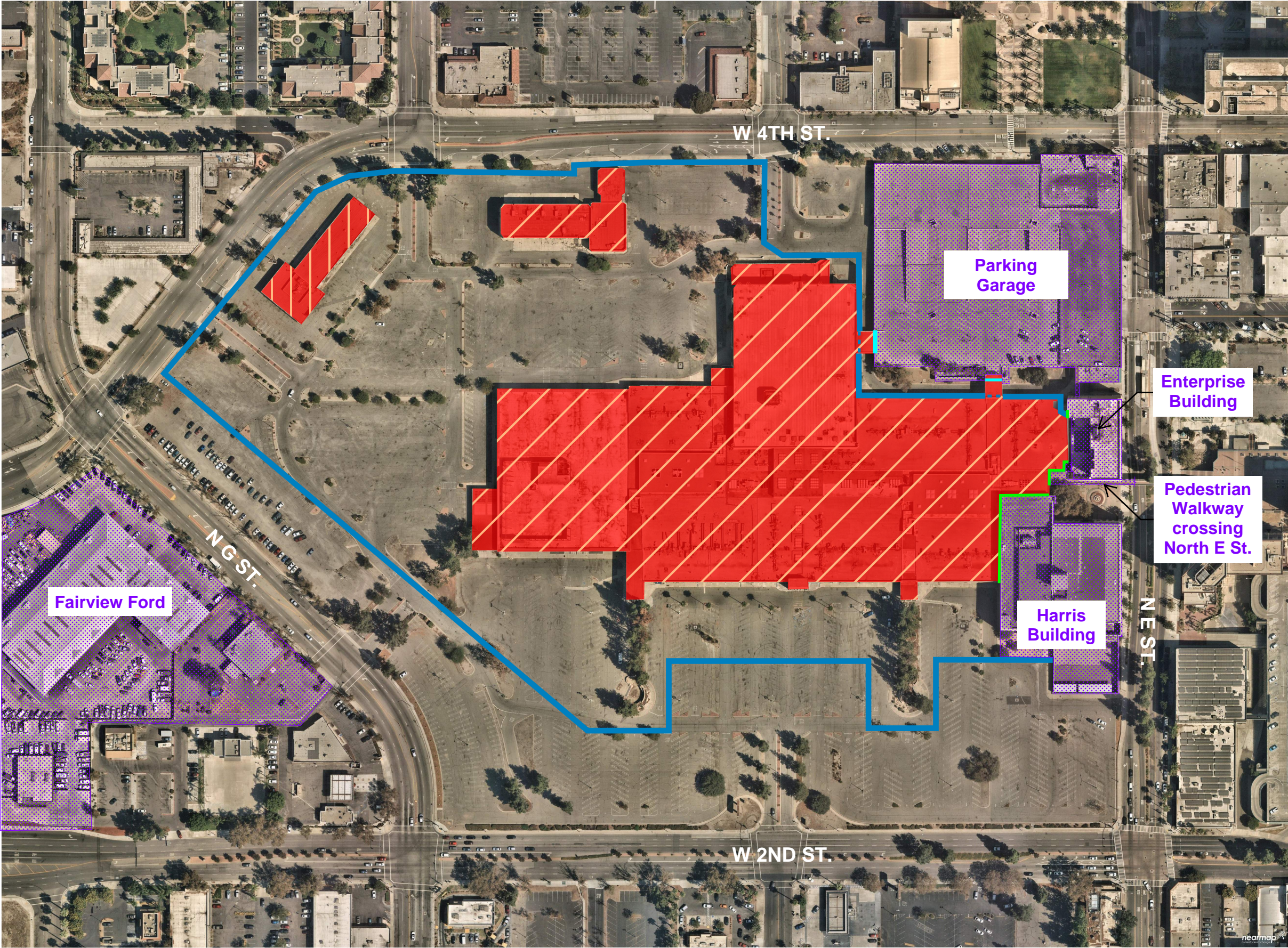


SCOPE

Demolish existing Carousel Mall to grade, including grade beams and pile caps. Demolition includes the former Montgomery Ward store, the former JCPenney store, two stand-alone buildings to the northwest of the primary mall structure, and the bridges to the adjoining parking garage. The existing Enterprise Building, Harris Building, Parking Garage, and Fairview Ford shall remain, along with the existing piles.

LEGEND

-  Demolition Existing Structure
-  Existing Structure-to-Remain
-  Secure Perimeter
-  Interface with Structure-to-Remain, See SSK-03
-  Structural Repair at Structure-to-Remain, See SSK-03



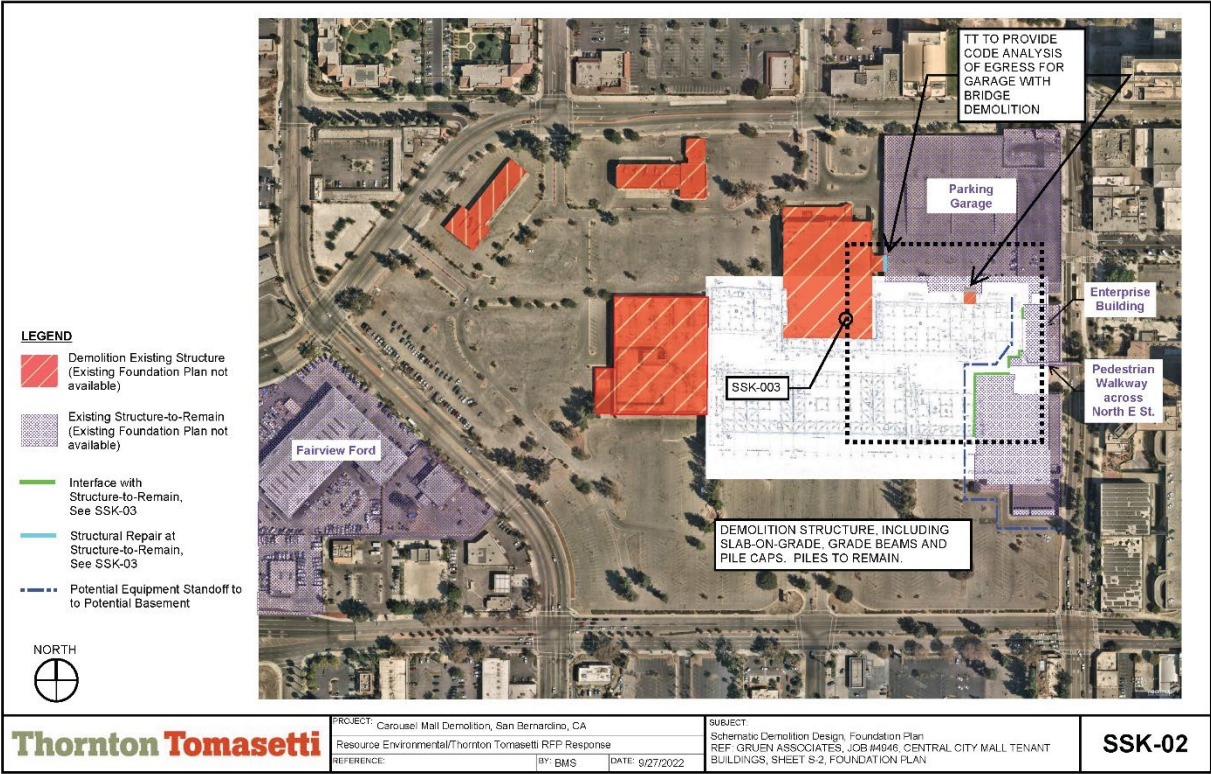


# UNDERSTANDING OF PROJECT

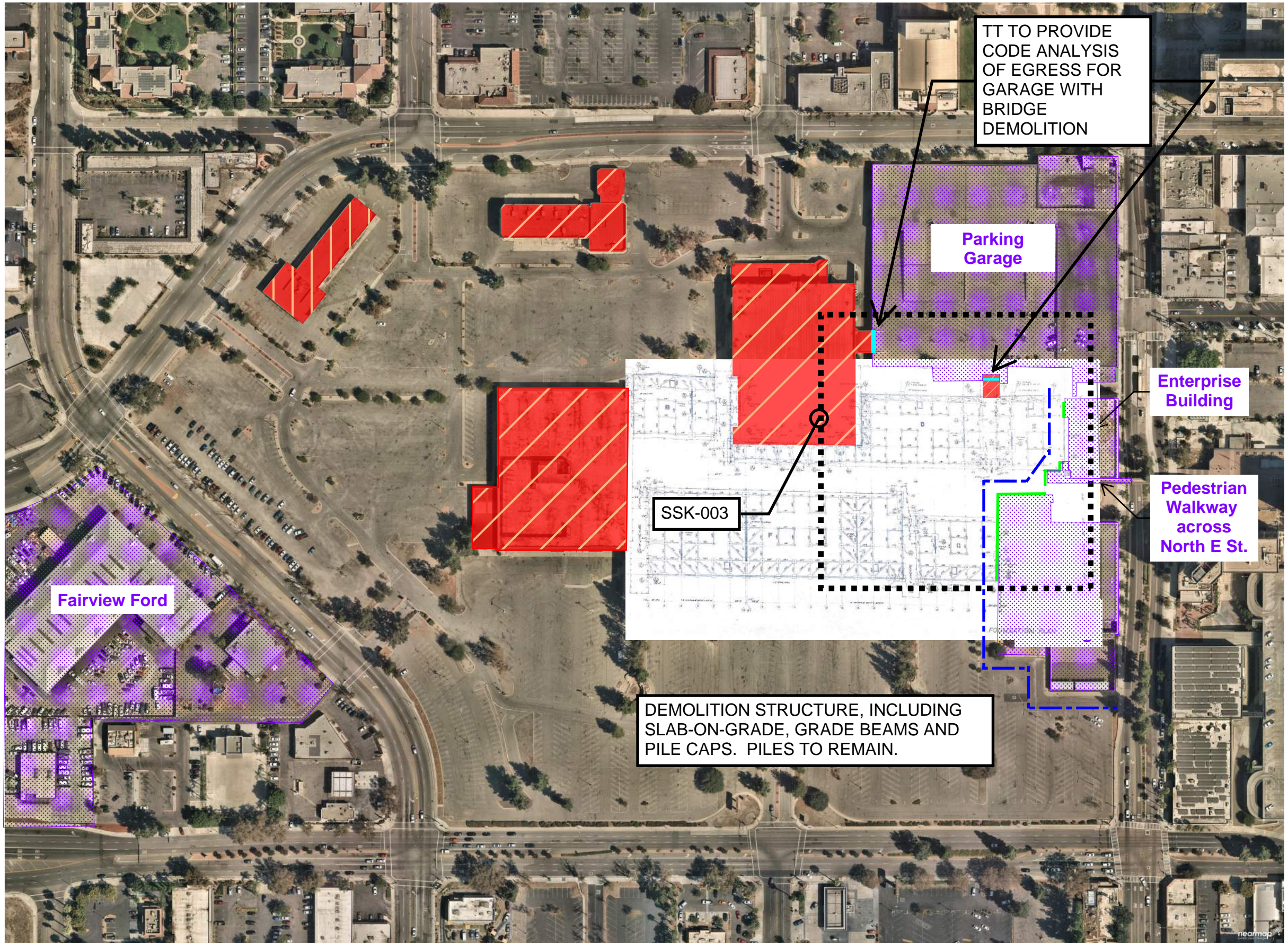
## Schematic Drawings

SSK-02 [folded and stapled attached]






Thumbnail Version







**LEGEND**

-  Demolition Existing Structure (Existing Foundation Plan not available)
-  Existing Structure-to-Remain (Existing Foundation Plan not available)
-  Interface with Structure-to-Remain, See SSK-03
-  Structural Repair at Structure-to-Remain, See SSK-03
-  Potential Equipment Standoff to to Potential Basement



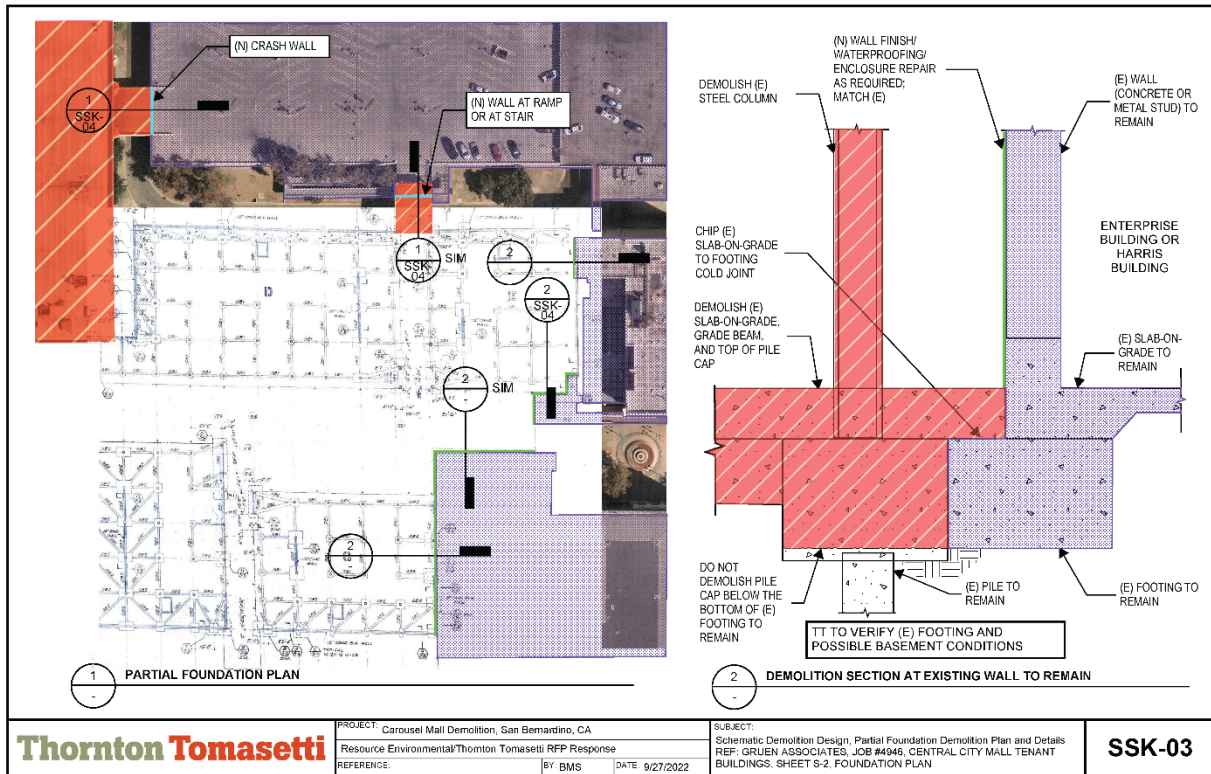


# UNDERSTANDING OF PROJECT

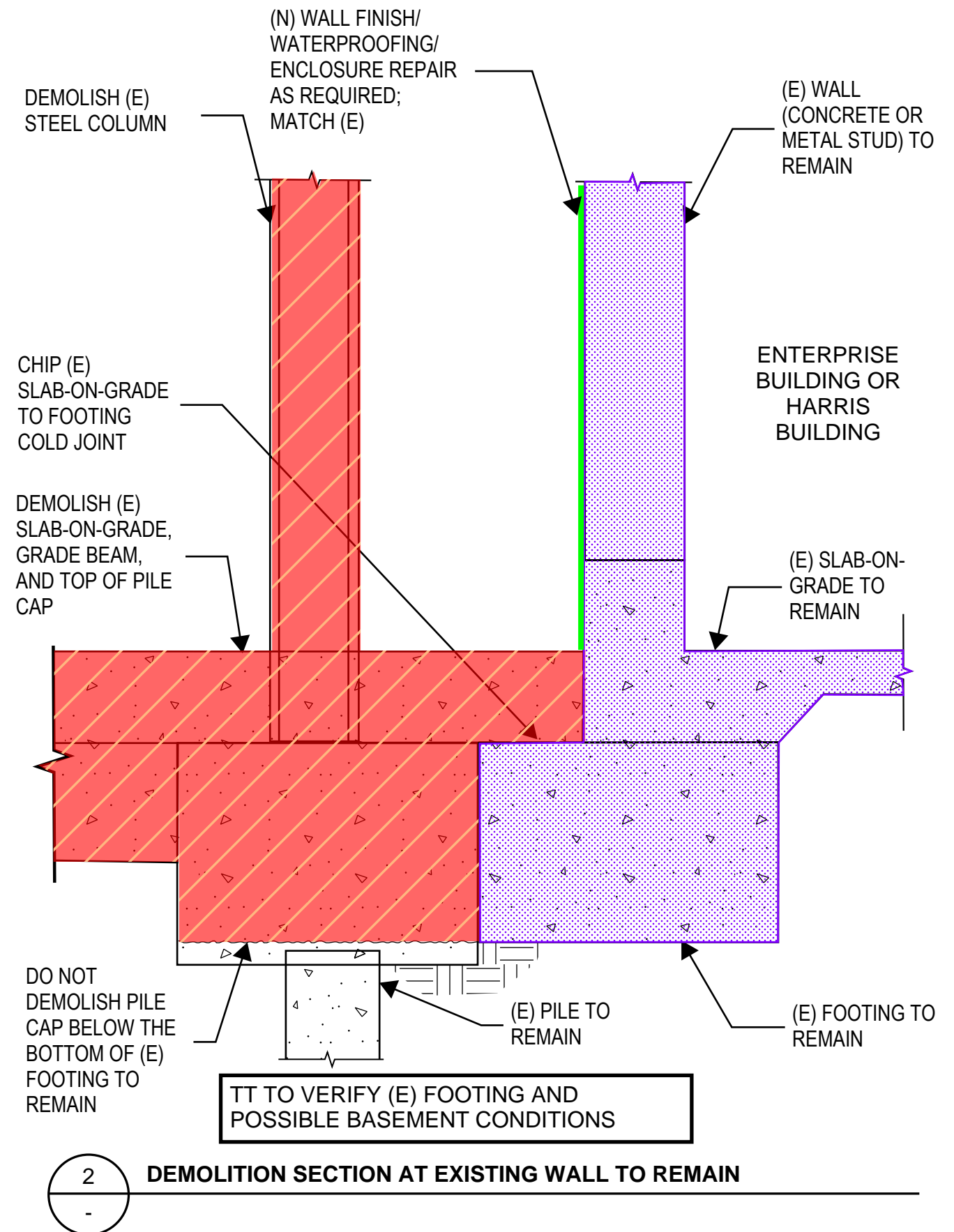
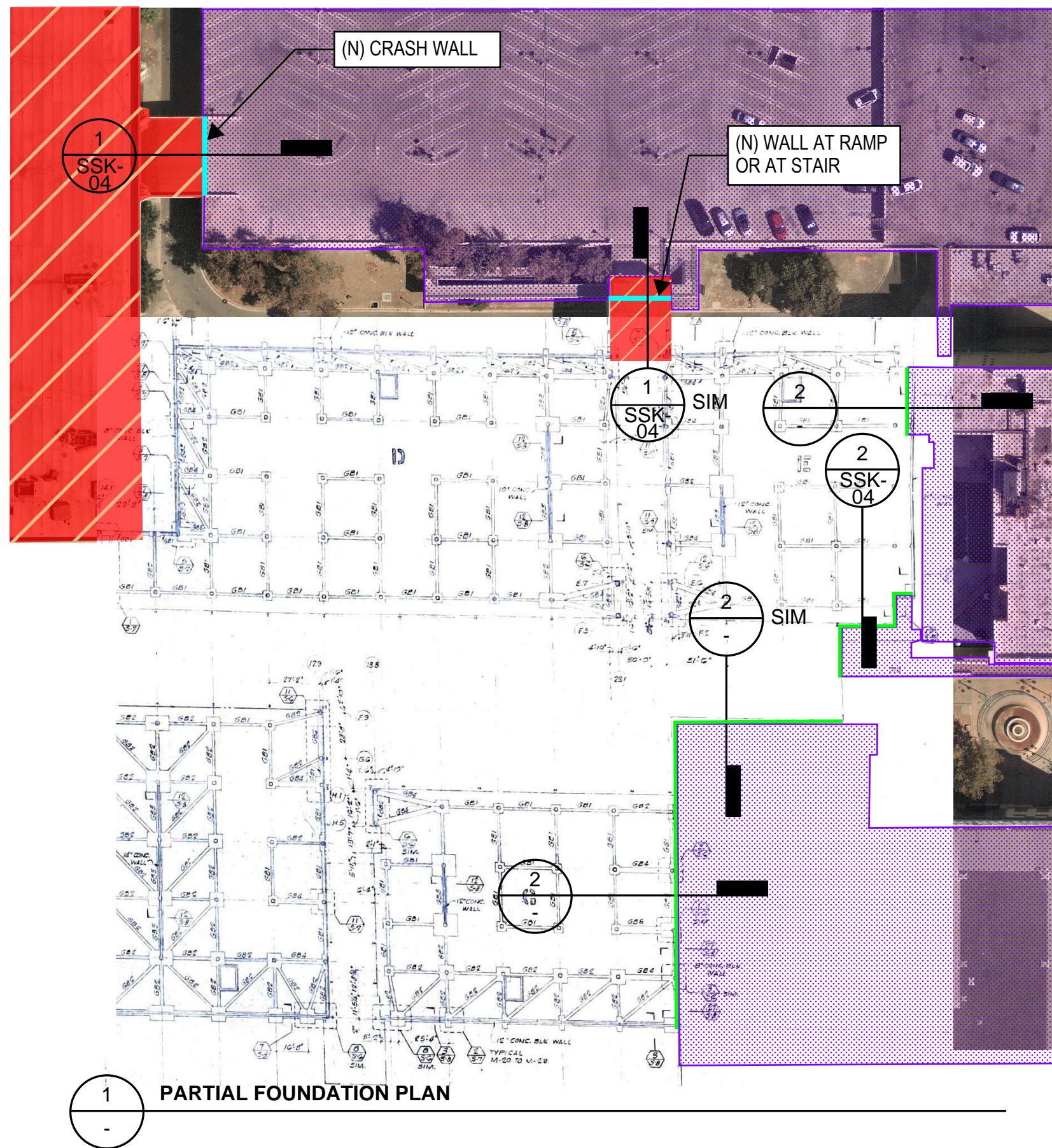
## Schematic Drawings

SSK-03 [folded and stapled attached]

### Thumbnail Version





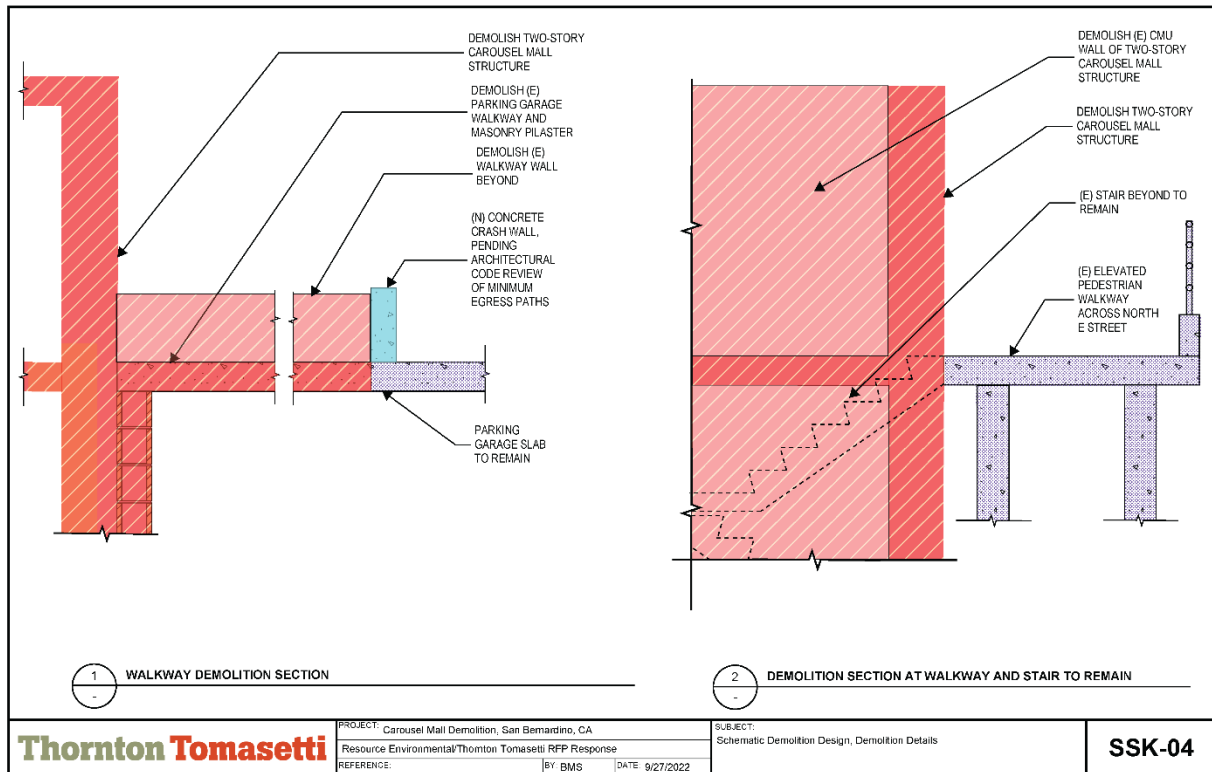


# UNDERSTANDING OF PROJECT

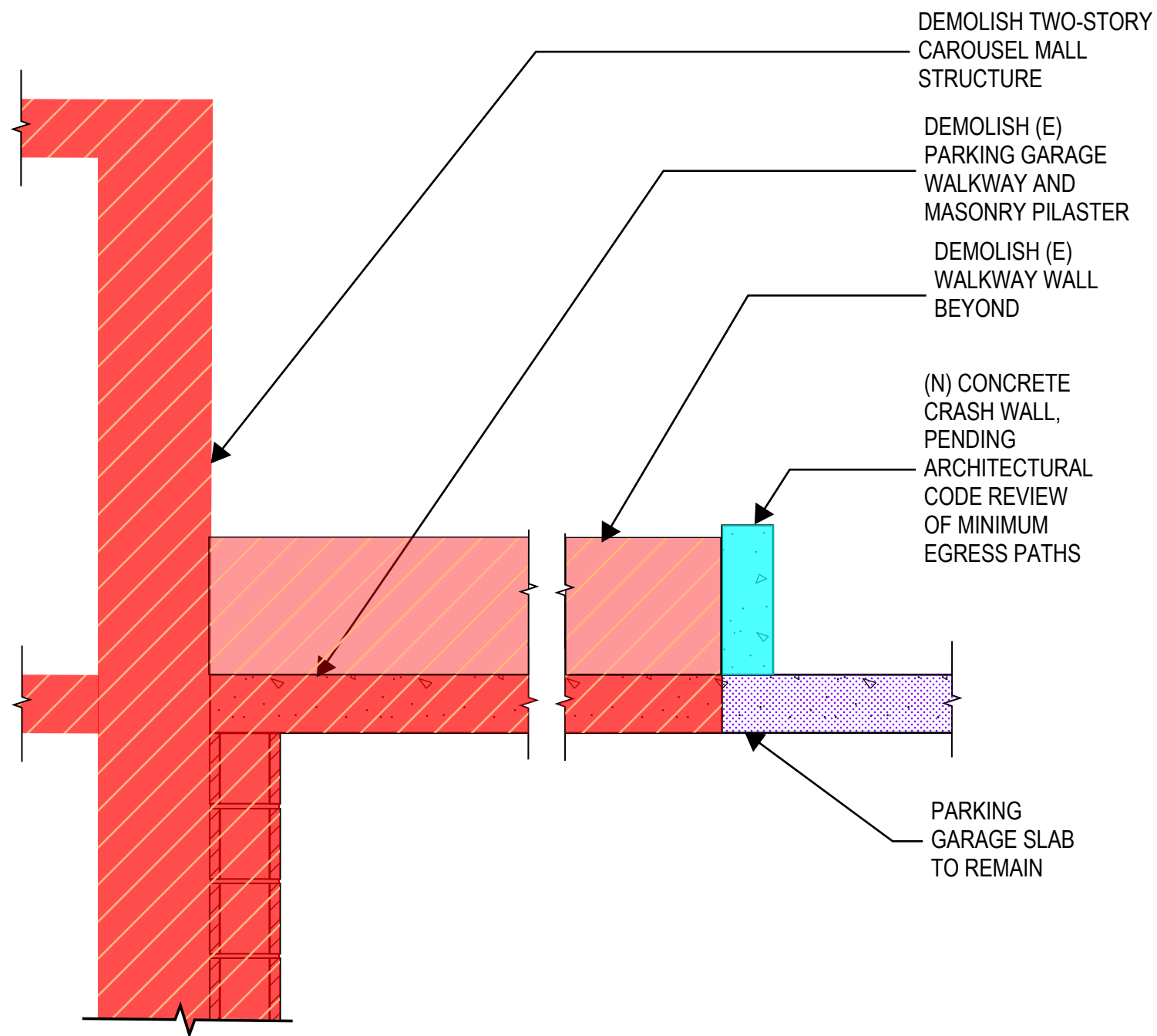
## Schematic Drawings

SSK-04 [folded and stapled attached]

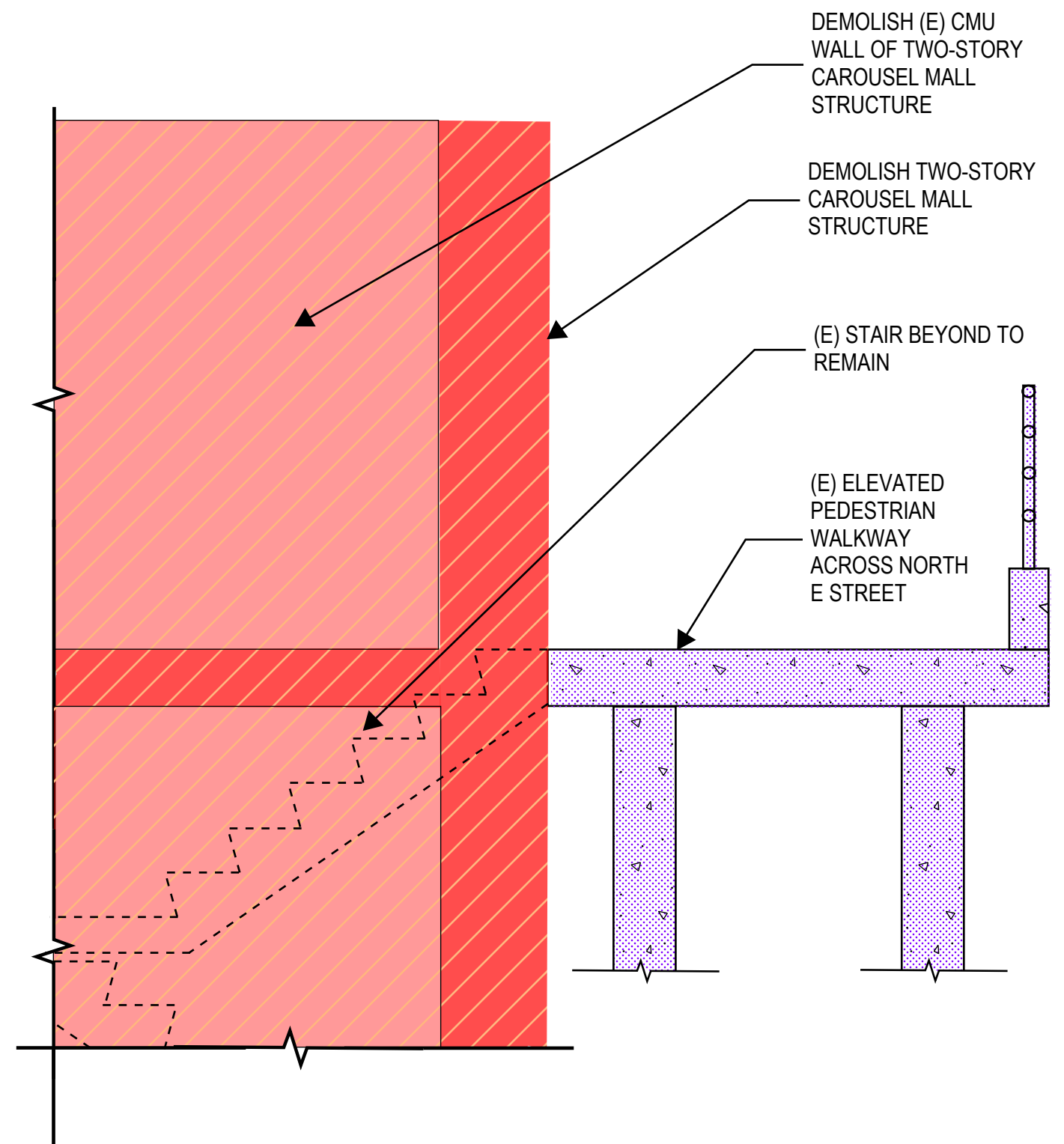
Thumbnail Version







1 WALKWAY DEMOLITION SECTION



2 DEMOLITION SECTION AT WALKWAY AND STAIR TO REMAIN

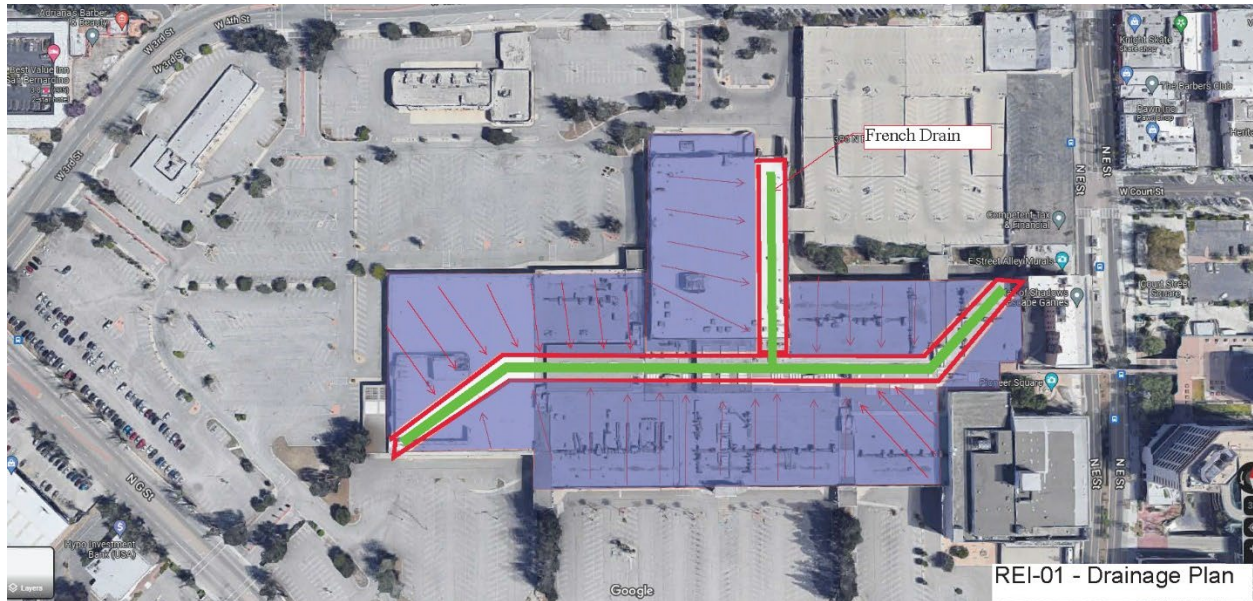


# UNDERSTANDING OF PROJECT

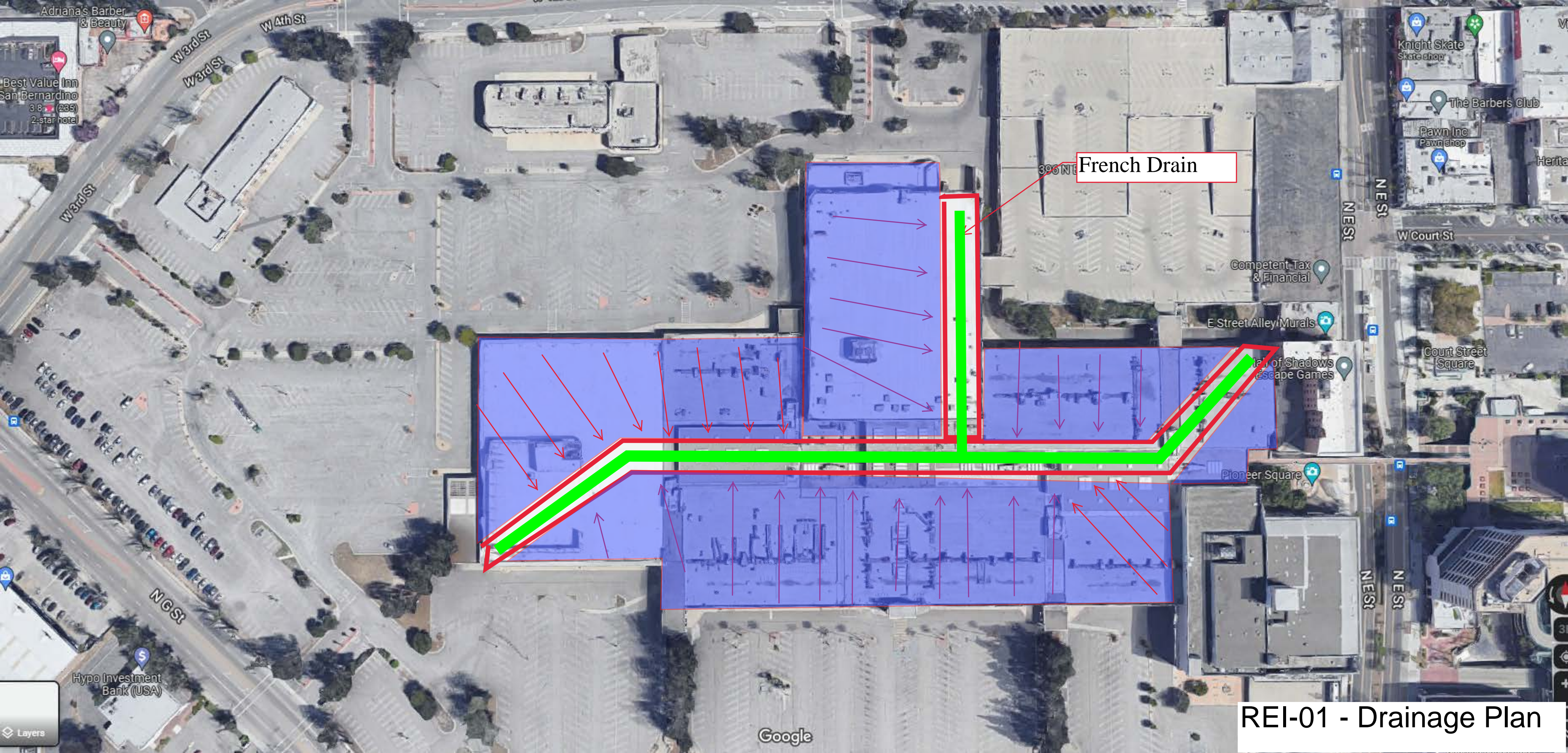
## Schematic Drawings

REI-01 [folded and stapled attached]

Thumbnail Version







French Drain

REI-01 - Drainage Plan



# UNDERSTANDING OF PROJECT

## Project Design Narrative

Carousel Mall was constructed in the 1970s and is bounded by West 4<sup>th</sup> Street to the north, North E Street to the east, West 2<sup>nd</sup> Street to the south, and North G Street to the west, in San Bernadino, California. Thornton Tomasetti will serve as the Structural Engineer of Record for the demolition of the Carousel Mall. Additionally, Thornton Tomasetti will serve as the Architect and Structural Engineer of Record for the design of repairs to the adjacent, to-remain structures (described in further detail below) necessitated by demolition of the adjacent Carousel Mall elements. Repairs are proposed to match the existing finishes to the extent possible and may also require the interface of new waterproofing elements with existing waterproofing elements.

The 2022 California Building Code or 2022 California Existing Building Code, both with City of San Bernadino amendments, will serve as the building codes, as appropriate, for the repair elements at the existing structures, with minimum design loads originating from ASCE 7-16.

Carousel Mall primarily consists of two-story structures, with some former anchor tenant stores such as Montgomery Ward and JCPenney standing three-stories tall, as well as some single-story structures located to the northwest of the main mall. The overall structural demolition of the Carousel Mall consists of removal of the superstructure, the slab-on-grade, and the grade beams and pile caps. The existing pile caps are supported by piles, which will remain beneath the finished grade. The bridge structures which connect the Carousel Mall to the Parking Garage to the northeast of the mall will also be demolished.

### Adjacent Structures

Carousel Mall is adjacent to several structures which are to remain following its demolition. The Harris Building is immediately adjacent to the southern portion of Carousel Mall's east elevation and is excluded from the Carousel Mall demolition scope. Based on visual observations, a portion of the original façade of the Harris Building was previously removed, providing an interconnected interior space with Carousel Mall, and it also appears that the Harris Building and Carousel Mall are seismically separated (albeit by a narrow gap). Existing drawings for the Harris Building have not currently been located, and thus further field investigation will be required to verify the extent of the past façade removal (and thus required façade repair) and to verify that the buildings are fully separated for both seismic and gravity loads. Furthermore, the potential existence of a basement in the Harris Building needs verification. Should a basement exist, an equipment standoff distance from to the west and north sides of the Harris Building will be required to avoid surcharging the Harris Building's basement walls with loads for which they were likely not originally designed. If a basement does not exist, a field investigation will be required to determine the depth of the existing footings and the removal of any subgrade Carousel Mall elements will need to avoid undermining the Harris Buildings foundations.

After surgical/hand demolition of the footings per the SSK drawings, Resource intends to grind all wall imperfections of concrete and extrusions; apply Carlisle AWP or Polyguard primer to insure proper adhesions, install one (1) layer of Polyguard 640 or Miradri 860 sheet waterproofing membrane as horizontally as possible to minimize vertical seams; mastic and/or caulk all lap joints and terminations of members edges; install one (1) layer of J-Drain, Miradri Drain, or equal drainage boards to ensure proper drainage and protection of waterproofing membrane during backfill; and install 4" perforated pipe, gravel wrapped in Mirafi-140/N 16oz filter fabric at bottom of wall then backfill with ¾" crushed gravel up to 2' below finished grade.

Similarly, the Enterprise Building is adjacent to the northern portion of Carousel Mall's east elevation and excluded from demolition. Further field investigation will be necessary prior to the start of demolition to determine the extent, if any, of existing façade removal/repair; the influence of a basement on demolition equipment positions; and/or avoidance of undermining the Enterprise Building's foundations.

An elevated pedestrian walkway, which crosses North E Street and is located to the south of the Enterprise Building will also remain following demolition of Carousel Mall. The elevated pedestrian walkway contains a stair at its northwest end, which is adjacent to portions of the Carousel Mall exterior wall slated for demolition; field investigation will be required to verify the extents of the stair and elevated walkway foundation systems.

The Fairview Ford dealership, located west of Carousel Mall, across North G Street, is also excluded in the Carousel Mall demolition scope.

The Parking Garage located in the northeast quadrant of the site is to remain; however, two pedestrian walkways which connect the Parking Garage to Carousel Mall are slated for demolition. Once demolished, the walkway to the west side of the Parking Garage will leave an opening in the crash wall at the top floor of the Parking Garage. Similarly, the removal of the pedestrian walkway along the south side of the Parking Garage will create an opening at either the existing stair or ramp, depending on the demolition demarcation. Closing each of the two walkway "openings" with a new concrete wall element is the most straightforward structural solution; however, Thornton Tomasetti will provide a code analysis to identify any egress concerns, which may include the addition of a stair and/or drive the demolition demarcation at the southside existing stair and ramp. An allowance has been provided for this work on the Bid Breakdown, Items CO 1 and CO 2.

Resource intends to crush the concrete on-site and reuse it to fill in voids, create safe grade elevations, and provide for erosion control. Any bare soil areas will be covered in hydroWhile this should be enough to stabilize the site for SWPPP, if the City desires, a temporary storm drain/French drain can be installed. This is shown as CO 3 on the bid breakdown.

It should be noted that aside from the given Allowances, Resource has made educated assumptions to the above and priced accordingly. The engineering and design costs are factored into this pricing and no change orders are anticipated.

### Asbestos

To allow for proper pricing of the asbestos abatement work, Resource invited its hazardous material consultant to the site to perform testing and provide a Limited Asbestos Survey. All suspect materials in the Carousel Mall, Automotive Center, Building 2 Outer Building, JC Penney, and Montgomery Ward were tested. These results allowed Resource to eliminate the guesswork in the abatement and provide competitive pricing with full confidence. It likely other proposers did not test or test to this extent and are forced to make expensive assumptions, as well as include the full cost of testing in their proposals. It is of great value to the City to select a contractor with as little guesswork and cost as possible.

Resource is confident in its asbestos pricing and no change orders are anticipated.

# UNDERSTANDING OF PROJECT

## Project Approach/Executive Summary

Armed with a Limited Asbestos Survey, the Phase I reports, limited as-builts, 4 site-visits, and a visit by its EOR, Resource Environmental, Inc. was exceptionally well prepared, with the ability to calculate pricing and account for what little unknowns were left. Our approach is as follows:

Immediately after the Notice of Award, we will engage key subcontractors, our hazardous material consultant, and EOR to begin the design and submittal process. These include demolition design, architectural design, the comprehensive hazardous material report, abatement workplans, demolition workplans, grading workplans, SWPPP, filing the Notice of Intent with the RWQCB, and crush submittal. We will request preconstruction conferences with the City of San Bernardino, our EOR, and our consultants to ensure all parties have a cohesive understanding of the proposed plan and schedule. Upon City approval of submittals and designs needed for permits, we will immediately submit to the appropriate City department for review and approval. We will also coordinate all utility shut offs and begin utility investigations. At this time, we will also install the temporary fence and dispatch site security.

After submittals are approved, we will begin to install all pre-demolition erosion control measures to comply with the SWPPP. Concurrently, our asbestos abatement crews will mobilize and begin asbestos abatement and lead abatement. Containments will be set up for interior abatement with 0.02 negative air pressure. Only authorized personnel with the appropriate certificates and training will be allowed to enter.

Abatement will begin immediately in the JC Penny building, but end quickly as well. Our preliminary results indicate a small quantity of asbestos. The crews

We will work the exterior abatement and 2nd floor abatement concurrently, moving to the 1st floor then the basement. Resource will begin working on subsequent areas while awaiting final clearances from the hazardous materials consultant.

As soon as abatement is cleared, our interior demolition crews will begin gutting the building. Since the building is made of concrete, this is necessary for the proper separation of building materials to ensure compliance with City of Los Angeles recycling requirements. This process will take about 1 month. Once complete, a pre-demolition survey will be performed by a licensed civil engineer to document any structural and safety concerns for the commencement of demolition.

Once cleared, we will inform USPS and LAWA of equipment mobilization to begin above ground demolition with the bridge shortly after. We anticipate utilizing 6 excavators (two 130k lb. machines and four 96k lb excavators), along with 4 skid steers, a track loader, and a water truck. After demolition and off-haul of above ground construction and demolition debris, we will be beginning shoring at the basement locations. Once the shoring is inspected and approved, we will begin the demolition of the basement structure. Once complete, we will begin to import engineered fill and begin grading operations.

An alternative scenario we would like to propose is to forego the shoring and remove the basement walls in 20-foot sections, simultaneously spreading, backfilling, and compacting crushed concrete to support earth wall integrity. We have checked with our engineers and this scenario is acceptable. This alternate also proposes crushing all of the site concrete for reuse as engineered fill, which has been confirmed by our geotechnical engineers to be an acceptable means of backfill. By utilizing both methods, considerable cost savings are achieved, and right-of-way damage and restoration are avoided.

Regardless of the chosen method, grading operations begin after the removal of the basement. Once the site is graded to all contours and spot elevations, we will install storm drains and catch basins and request grading inspections. During this time, we will also install permanent fence.

Once complete, we will request a punch list inspection and complete all necessary punch list items.

## REFERENCES

### Rancho Los Amigos South Campus Demolition [Design-Bid-Build]

Resource completed Phase 1 of the Rancho Los Amigos South Campus Demolition and is nearing final completion of the project, with Phase 2 expected to be complete by December 1<sup>st</sup> of this year.

The Rancho Los Amigos National Rehabilitation Center, or Rancho, dates back to 1888 when indigent patients from the LA County Hospital were relocated to what was then known as the LA County Poor Farm. Originally created to provide work, housing, and medical care to the poor, it rapidly grew into a psychiatric facility. As many of the original buildings are still standing, it is not surprising many documentaries described rumors of the compound being haunted.

The facility still operates today, but in neighboring land. Resource was contracted to abate and demolish over 100 structures, sprawling over 50 acres. Given the age of the buildings, the abatement was extensive, with nearly every building containing 1,000's of square feet of asbestos and lead. Many had collapsed, vandalized, or were set ablaze, leading to the requirement of a South Coast Air Quality Management District Procedure 5 workplan, which requires thorough decontamination of all surfaces and disposal of all material as friable, hazardous waste.

Resource worked with SCAQMD to allow for limited use of heavy equipment to assist in the remediation efforts. All said, the project included over a million square feet of asbestos abatement, 500,000 square feet of demolition, and over 250,000 square feet of contaminated soil removal – all which Resource self-performed.

Due to the historical significance of the site, the contract also included the “mothballing” of two large buildings – the former Power Plant and the Casa Consuelo building. The mothballing scope of work included clay tile salvage, re-roofing and roof repair, window board-ups, shoring, fencing, the installation of skylight covers.

**Client:** County of Los Angeles

**Contact:** Myron Lee, Project Manager

(213) 435-0563 / [joann.atienza@lendlease.org](mailto:joann.atienza@lendlease.org)

**Value:** \$14,062,000

**Delivery:** Design-Bid-Build

**Year Completed:** Phase 1 – Complete 09/16/2022 | Phase 2 – Est. Completion 12/01/2022



## REFERENCES

### Existing Student Services & Student Activities Demolition [Design-Assist/Design-Bid-Build]

The former Existing Student Services and Student Activities Demolition project included the abatement, interior demolition, selective demolition, and razing of multi-story buildings; the installation of new utilities (water main and gas line); the cutting, capping, and isolation of existing utilities; backfill, compaction, and paving of an active roadway; and the building of two certified building pads at the active and occupied El Camino Community College in Torrance, CA. Resource worked with its EOR, Thornton Tomasetti, for structural engineering and design.

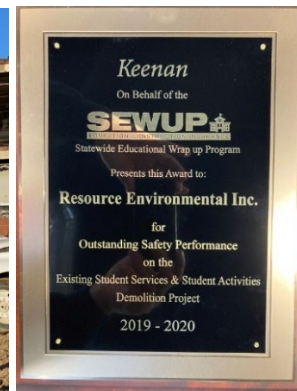
The project was in the middle of an active campus and required full time traffic control, pedestrian canopies, and other public protection measures. Throughout this multimillion-dollar project, there were no injuries or incidents. As such, Resource was given an award by Keenan and Associates, the largest OCIP administrator in the California, for its excellence in safety.

The hazardous material abatement was extensive, including the removal of asbestos contaminated soil in crawlspaces with a vac-loader under regulated conditions. This was completed safely and without incident. Abatement also included 1,700 SF of acoustic ceiling removal, 360 SF of transite removal, 308 SF of insulation, 21,765 SF of friable floor tile and mastic, and 25,733 SF of non-friable asbestos. All abatement was highly supervised by DSA inspectors and third-party asbestos consultants, and all work was completed safely and without incident.

The demolition included 135,000 square feet over 3 acres and was fast tracked to allow for the new construction to begin as Resource was completing the project. The project required (8) excavators, (2) track loaders, (8) scissor and boom lifts, (6) skid steers, (4) water trucks, as well miscellaneous equipment, to complete the abatement and demolition on time. Resource worked closely with its Design-Build Entity partner, Thornton Tomasetti, for structural calculations, load and weight bearing capacities, and demolition drawings.

The project had a new obstacle – the never seen before COVID-19 pandemic began in the middle of the project and changed the entire work environment with novel safety and health precautions. This included mask, signs, training, and many other safety measures put into place. While this was challenging and new for all involved, the pandemic did not hinder Resource's operations or the project schedule.

**Client:** El Camino Community College District  
**Contact:** JoAnn Atienza, Construction Manager  
(213) 435-0563 / [joann.atienza@lendlease.org](mailto:joann.atienza@lendlease.org)  
**Value:** \$3,030,000  
**Delivery:** Design-Assist/Design-Bid-Build  
**Year Completed:** 2020





## REFERENCES

### Compton HS Campus-Wide Structure & Utility Demolition [Design-Bid-Build]

Resource Environmental, Inc. successfully completed the hazardous materials abatement, UST removal, utility removal, and razing of all (38) structures on XX acres of the entire high school campus for Compton Unified School District in 2022. There were multiple USTs (underground storage tanks) that were full of fuel and oils that needed to be pumped and triple rinsed per California, Federal and Local regulatory guidelines before removal. All concrete was recycled for reuse for the 30k SF and 45' deep in some spots backfill and compaction.

The project was subject to very stringent and thorough CPM (critical path method) that Resource created and updated weekly. Adherence was key to avoiding delays on the reconstruction project.

The school had (3) three major fires from the early 1930's and was rebuilt where these occurred over the years. This created unknown structures and fire debris that was buried under the new structures. This all had to be cleaned up per new guidelines to allow for a clean build site. Resource used specialty equipment mainly skeleton buckets we had made to syphon through the soil allowing clean soil to drop and the contaminated soil with fire debris to be removed for loading and transport to the appropriate landfills. Hand labor was also used to ensure all debris was cleaned to meet current soil standards for the school's reconstruction. This also created over 30k linear feet of abandoned utilities encased in concrete that no one was aware from all the build back after the fires. Resource hired a utility locator to mark (the best they could) to help identify all utilities that were not on any as-builts or plans. This was a very tedious and slow process to ensure all was removed.

Resource removed (5) time capsules for the 1930's to 2000's that were buried and on built into the administration building that had to be sawcut and removed delicately to ensure proper removal. One had a letter and a play billing from 1928. The administration building was 48' tall with an auditorium attached that was challenging where Resource used an excavator to reach over 50' to demolish the structure. This has a basement with a UST that was removed 25' deep under the guidance of the local Fire department per California regulations.

The concrete removal, breaking, processing, and crushing consisted of 14,000 tons to ¾" crushed miscellaneous base for reuse on site.

**Client:** Compton Unified School District  
**Contact:** Chuck Wren, Construction Manager  
(213) 448-8378 / [cwwren@cumming-group.com](mailto:cwwren@cumming-group.com)  
**Value:** \$2,962,260  
**Delivery:** Design-Bid-Build  
**Year Completed:** 2022



## REFERENCES

### LAWA Manchester Square Demolition Phases 1-2 [Design-Build]

The LAWA (Los Angeles World Airports) abatement, demolition, and site restoration project for the historic “People Movers Project” that was many years in the making with the planning commission. This was a historic project that started the complete renovation of LAX and the rental car process inside and out of the airport.

Resource worked closely with LAWA and directly with MGJV (Myers-Griffith Joint Venture) in planning and executing the project safely and on time. Resource coordinated public relations efforts with LAWA, MGJV, South Coast Air Quality, Cal-OSHA and other local agencies to mitigate the public’s potential concerns with the high visibility abatement, demolition and restoration work by Resource.

The project was in two phases and consisted of over (40) forty multi story buildings over 120 acres of restoration. Many of the buildings were adjacent to active businesses as well as a fully occupied school within the middle of the site.

The abatement included over 55,000 square feet of asbestos abatement of friable and non-friable asbestos and lead hazardous materials. There was over 1500 Linear Feet of underground asbestos containing Transite pipe buried that was removed with equipment and hand labor under regulated conditions. The buildings were razed and site restoration was performed on every parcel to allow for a smooth transition for the new construction.

Resource utilized a fleet of over 20 pieces of heavy equipment demolishing multiple buildings at one time in a very short timeline to allow for the construction to start on schedule. This was the first phase of a massive renovation for the City of Los Angeles and Resource was an integral part of being the first of many contractors to complete this historic project. With resource being the first to start the project with abatement and demolition it set the standard from the get go with completing our work on time and without incident and perfect safety record.

**Client:** Los Angeles World Airports/Myers & Sons-Griffith JV

**Contact:** Linda Hynds, Project Manager

(562) 207-7666 / [lhynds@griffithcompany.net](mailto:lhynds@griffithcompany.net)

**Value:** \$4,520,000

**Delivery:** Design-Build

**Year Completed:** 2020



## REFERENCES

### LACCD Former Firestone Plant ELAC Demolition [Design-Bid-Build]

Resource completed the extensive remediation of the original Firestone Rubber Plant on Firestone Boulevard. The work consisted of a highly complex enclosure of the entire structure due to an “asbestos skim coat” that was applied on the exterior coating. Resource utilized scaffolding to shrink wrap the entire structure, ensuring the achievement of negative air pressure - a requirement under SCAQMD (Air Quality) Rule 1403 for all asbestos work. This allowed for the asbestos to be remediated using sandblasting methods without exposure to the environment and life.

Due to the high visibility of the project and the complex remediation of the skim coat, Resource worked closely with SCAQMD, asbestos consultants, and LACCD inspectors to ensure the work was done safely with no incidents and zero exposure.

The removal consisted of over 395,000 square feet of asbestos and all the interior walls were stabilized for the loose and flaky lead paint. The roof had multiple layers of asbestos cap sheets and mastic from over 50 years of reroofing. Resource engineered the roof removal using various means, from lifeline installation and cranes to lifts and chutes, to ensure a safe work environment at high elevations. The remediation project was highly complex given the age and size of the structures, as well as highly public given the historical aspect of the plant.

**Client:** Los Angeles Community College District/National Demolition

**Contact:** Jennifer Perry, President

(310-732-1991 / [jennifer@nationaldemolition.com](mailto:jennifer@nationaldemolition.com))

**Value:** \$3,220,417

**Delivery:** Design-Bid-Build

**Year Completed:** 2019



## LIST OF ADDITIONAL REPRESENTATIVE PROJECTS

*References and additional information available upon request.*

### Demolition of Buildings 58 & 158, NVBPL [Design-Build]

- **REI Contract Value:** \$1,031,968
- **Relevance:** Design-Build; Collaborated with EOR; Demo of multi-story concrete bldg.; Crushing concrete;
- **Scope:** Demolition and abatement of 4-story concrete-reinforced military dormitory and selective demolition and abatement of an officer's building.

### Michelson Labs Wings 2-6 Repair, NVBCL [Design-Build]

- **REI Contract Value:** \$1,878,075
- **Relevance:** Design-Build; Collaborated with EOR; Extensive abatement; Demolition
- **Scope:** Selective demolition of floors 2-6 of two laboratory towers and structural demolition of two buildings. Abatement of over 75,000 SF of roofing materials.

### Design-Build Repair BEQ 210705, MCBCP [Design-Build]

- **REI Contract Value:** \$649,492
- **Relevance:** Design-Build; Interior gut; Remediation; Assisted in design drawings
- **Scope:** Selective demolition and full mold remediation of a multistory military dormitory. Included removal of all doors, floor finish to concrete, vanities, mirrors, stud walls, ceiling finish, MEPs, etc.

### Design-Build Burroughs MS Site Modernization, LAUSD [Design-Build]

- **REI Contract Value:** \$3,491,305
- **Relevance:** Design-Build; Abatement, selective demo, structural demo; Contract value
- **Scope:** Abatement and interior demolition of 4 multi-story school bldgs. Abatement and structural demolition of 20 additional multi-story school bldgs.

### Design-Build Jefferson ES Site Modernization, LAUSD [Design-Build]

- **REI Contract Value:** \$3,230,000
- **Relevance:** Design-Build; Abatement, selective demo, structural demo; Contract value
- **Scope:** Abatement and interior demolition of 4 large school buildings. Comprehensive site demolition. ACCM asphalt demolition.

### Seaside Surplus II Demolition, FORA [Design-Bid-Build]

- **REI Contract Value:** \$3,546,000
- **Relevance:** Abatement & demo of multi-story concrete bldgs; Utility capping; Permitting; Contract value; Grading
- **Scope:** Abatement and demolition of 10 3-story concrete military structures, 1 cafeteria, 1 gym, 2 armories, and 6 admin buildings. Abatement was extensive with rare skim coat and vapor blasting.

### CEFCU Stadium East Demolition, SJSU [Design-Bid-Build]

- **REI Contract Value:** \$2,252,661
- **Relevance:** Abatement & demo; Contaminated soil; Grading; Contract value
- **Scope:** Demolition and abatement of east side stadium bleachers at San Jose State University, followed by the removal of 45,000 tons of contaminated soil.

### Twin Rivers Site Demolition Phase 1-2, SHRA [Design-Bid-Build]

- **REI Contract Value:** \$3,818,000
- **Relevance:** Abatement & demo; Contaminated soil; Permitting; Utility capping; Contract value
- **Scope:** Abatement and demolition of 93 multi-family housing buildings, including the removal of all underground utilities, backfill, compacting, and grading of over 23 acres; and soil remediation.

### Batchelor Hall Modernization, UCR [Design-Bid-Build]

- **REI Contract Value:** \$2,397,337
- **Relevance:** Abatement & demo; Contract value; Surgical demo
- **Scope:** Phased abatement and interior demolition of active school laboratory. Surgical demolition of roof structure.



### PCGC Demolition of DeWitt Center, Placer County [Design-Bid-Build]

- **REI Contract Value:** \$1,413,000
- **Relevance:** Building separation; Wall restoration; Abatement & demo; Grading
- **Scope:** Abatement and demolition of 14 buildings totaling 109,000 SF with 7 acres of grading, site restoration, and building separation (with build back of two walls).

### SMC Math-Science Demolition [Design-Bid-Build]

- **REI Contract Value:** \$1,392,000
- **Relevance:** Building separation; Extensive abatement; Concrete crushing
- **Scope:** Abatement and demolition of two school buildings totaling over 80,000 SF. Liberal Arts building was connected to a newly built multistory building that required design, engineering, and hand demolition to carefully separate the buildings.

### 2020 Wildfire Debris Removal & Hazard Tree Removal, CalRecycle [Emergency]

- **REI Contract Value:** \$3,565,198
- **Relevance:** Contract value; Complex abatement & demo; Design-Build like nature [no plans]
- **Scope:** Hazardous ACM removal, debris removal, and demolition of over 100 parcels in 2 months in Mono County, Los Angeles County, and Tulare County for the State of CA wildfire cleanups.

### Hinkley Remediation, PG&E [Emergency]

- **REI Contract Value:** \$3,900,000
- **Relevance:** Contract value; Complex abatement; Soil remediation; Design-Build like nature [no plans]
- **Scope:** Hazardous material abatement and contaminated soil cleanup of 225 residential and commercial sites in the Town of Hinkley for Pacific Gas & Electric, which was featured in the film Erin Brokovich.

### State Route 47 – Schuyler Heim Bridge [TT Design-Build]

- **TT Contract Value:** \$1,210,000
- **Relevance:** Design-Build; Structural engineering for demolition
- **Scope:** Structural eng. services for the demolition of the bridge piers of original Schuyler Heim Bridge. Provided structural analysis of temp. construction trestle and design of strengthening measures.

### Northbay Medical Center Central Utilities Plant Replacement [TT Design-Build]

- **TT Contract Value:** \$154,000
- **Relevance:** Design-Build; Structural engineering for utility circulation route; Design-Build
- **Scope:** Structural eng. for the new central utility plant to replace the existing plant. New plant located across the street, but street serves as major utility circulation route. Ensure tie-ins had no impact on utilities or nearby buildings.

### El Camino Hospital – Old Main Demolition [TT Design-Assist]

- **TT Contract Value:** \$640,000 [to date]
- **Relevance:** Design-Assist; Structural engineering for complex, phased demo of connected bldgs.
- **Scope:** Structural eng. for demolition of 8-story hospital & ancillary structures. Developed a buttressing scheme for the below-grade basement walls to maintain stability for adjacent, in-service buildings.

### El Camino Hospital – Sobrante Pavilion [TT Design-Assist]

- **TT Contract Value:** \$1,260,000
- **Relevance:** Design-Assist; Structural engineering for surgical demo
- **Scope:** Structural eng. for the construction of a 265,000 SF pavilion and parking garage. Required demo of 120,000 SF building immediately adjacent to 3 active buildings with surgical demo of shared footings.

### El Camino Hospital – Taube Pavilion [TT Design-Assist]

- **TT Contract Value:** \$1,260,000
- **Relevance:** Design-Assist; Structural engineering for large-scale partial demolition
- **Scope:** Structural eng. for construction of the 56,000 SF Taube Pavilion, requiring the partial demo of a 9,000 SF active bldg. Performance of lateral analysis of remaining structure for lateral stability.