



CORDILLERAS MENTAL HEALTH CENTER REPLACEMENT PROJECT

DRAFT ENVIRONMENTAL IMPACT REPORT APPENDICES



NOVEMBER 2019

STATE CLEARINGHOUSE #2015072003

Cordilleras Health System Replacement Project EIR

Appendix A: Notice of Preparation and Public Scoping Comments

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NOTICE OF PREPARATION
OF AN ENVIRONMENTAL IMPACT REPORT (EIR) FOR THE
CORDILLERAS MENTAL HEALTH CENTER REPLACEMENT PROJECT

Date: July 1, 2015

To: California State Clearinghouse, CEQA Responsible and Trustee Agencies, federal agencies, San Mateo County Clerk, and interested individuals and organizations

Subject: **Notice of Preparation for the Cordilleras Mental Health Center Replacement Project Environmental Impact Report (EIR)**

Lead Agency: San Mateo County Department of Public Works

Applicant: San Mateo County Department of Public Works and the County Health System, Behavioral Health and Recovery Services (BHRS)

Project Location: 200 Edmonds Road, San Mateo County, CA 94062

Project Description: A brief description of the project, including its location and probable environmental effects, is attached. An Initial Study was not prepared for the project because the County has determined that an EIR will be prepared for the project.

The purpose of this Notice of Preparation (NOP) is to request comments on the scope and content of the Environmental Impact Report that San Mateo County will prepare for the Cordilleras Mental Health Center Replacement Project. Comment is requested from state responsible and trustee agencies, federal agencies, and any other person or organization concerned with the environmental effects of the project. Pursuant to CEQA Guidelines §15082 (b), you have 30 days from the date of receipt of this NOP to respond. **Please send your written response by the earliest possible date, but no later than 5 PM on July 31, 2015 to Mr. Robert Kalkbrenner, Capital Projects Manager, San Mateo County, 555 County Center, Fifth Floor, Redwood City, CA 94063 or to rkalkbrenner@smcgov.org (enter "Cordilleras Mental Health Center Replacement Project NOP" in the 'Subject' line).** Agency responses should include the name of a contact person at the agency.

Additionally a public meeting to receive comments on the scope of the EIR will be held by the County at a later date. Oral and written comments will also be received at this meeting. Separate notice announcing the date and location for the public meeting will be given.

Signature: _____



Date: _____

6.30.2015

Title: Capital Projects Manager

CORDILLERAS MENTAL HEALTH CENTER REPLACEMENT PROJECT

PROJECT DESCRIPTION

The Cordilleras Mental Health Center (CMHC) houses two separate treatment programs operated by Telecare Corporation for adults with chronic mental illness: a licensed locked 68-bed Mental Health Rehabilitation Center (MHRC) and a licensed 49-bed Adult Residential Facility (ARF). CMHC serves San Mateo County residents, 18 and older, with long histories of mental illness and multiple episodes of acute psychiatric hospitalization. Without access to the Cordilleras MHRC, most patients would remain in psychiatric inpatient services, state hospitals, or out-of-county MHRCs. The existing CMHC facility must be replaced in order to address safety, current mental health treatment methods, and to meet federal sizing regulations for reimbursement.

Project Location and Site Description

The project site, APN 050-470-050, is located at 200 Edmonds Road in unincorporated San Mateo County, California (Figure 1 and Figure 2). The site is located approximately 0.5 miles northeast of Interstate 280 and 1,700 feet west of the intersection of Edgewood Road and Crestview Drive, near Redwood City. The site is situated southwest of Pulgas Ridge Open Space Preserve and is surrounded on all sides by a mosaic of undeveloped oak/bay woodland, coastal scrub and grassland habitats located in Redwood City and unincorporated San Mateo County.

The 20.6-acre site is owned by the County of San Mateo and is zoned as Resource Management (RM). The CMHC facility was constructed in 1952 as a tuberculosis hospital and then converted to a psychiatric facility in 1968. The existing CMHC facility includes a Y-shaped three-story concrete building with a 117-bed capacity, gardens, a recreation yard and a parking lot with three driveways (two for entrance and one for exit). An aerial photograph of the existing CMHC facility is shown in Figure 3. The CMHC facility is located in the base of a canyon on gently sloping topography, ranging from 285 above mean sea level (msl) to 315 msl across about 500 feet (Figure 4). The topography of the rest of the site is hilly, ranging from 280 ft msl on the entrance drive to 410 ft msl at the water tank above the existing buildings. The CMHC facility was sited in the channel of Cordilleras Creek, and creek flows upstream, as well as two tributaries in the area of the facility are currently diverted around the facility through a culvert system and directed back to Cordilleras Creek downstream of the buildings. A fire station is located adjacent to the south side of the CMHC facility, and the Canyon Oaks Youth Facility is located west of the fire station adjacent to a tributary to Cordilleras Creek. A water storage tank is situated approximately 450 feet northwest of the CMHC facility. The undeveloped portions of the site are vegetated with mixed live oak woodland, creek channel/valley foothill riparian, annual grassland, and coastal sage scrub (Figure 4).

Proposed Project

The County of San Mateo Department of Public Works and the County Health System, Behavioral Health and Recovery Services (County) propose to replace the existing CMHC building within an expanded footprint at the site. The County has developed a conceptual design site plan for the replacement facility. The design involves replacing the current CMHC facility with five 10,500-square-foot 16-bed residential structures, a 35,000 square-foot campus center building with 37 to 55 beds on its upper floors, a recreation yard, parking for 85 cars (20 more than currently available), and new emergency access (Figure 5). Three of the residential structures would be located on the existing developed grounds and two would be placed in an expanded development footprint along the creek. The campus center

building would be built north of the existing facility where the access road to the water tank currently exists, and the recreation yard and garden would be located in between in areas that are already developed. The project would be designed with LEED measures, including solar panels on the buildings. The residential capacity of the CHMC could potentially expand from 117 to 135 beds. Facility staffing would be increased from 86 to 145 full-time equivalents.

Probable Environmental Effects

The Cordilleras Mental Health Center project could result in the following potentially significant environmental affects:

- Biologic impacts from the building footprint in riparian zone, removal of trees, and new landscaping; impacts to special-status species, nesting birds and roosting bats
- Exposure of CMHC, Canyon Oaks Youth Facility, and County Fire Station residents and staff to construction air and noise emissions
- Removal of a building potentially eligible for state listing as a historical resource
- Exposure of residents and staff to geologic hazards, and construction-related soil disturbance and erosion
- Presence of hazardous materials in building to be demolished
- Alteration of drainage patterns and volumes
- Increased traffic generation during construction and from additional residents/visitors and employees
- Increased utility demand from expanded bed capacity and number of employees

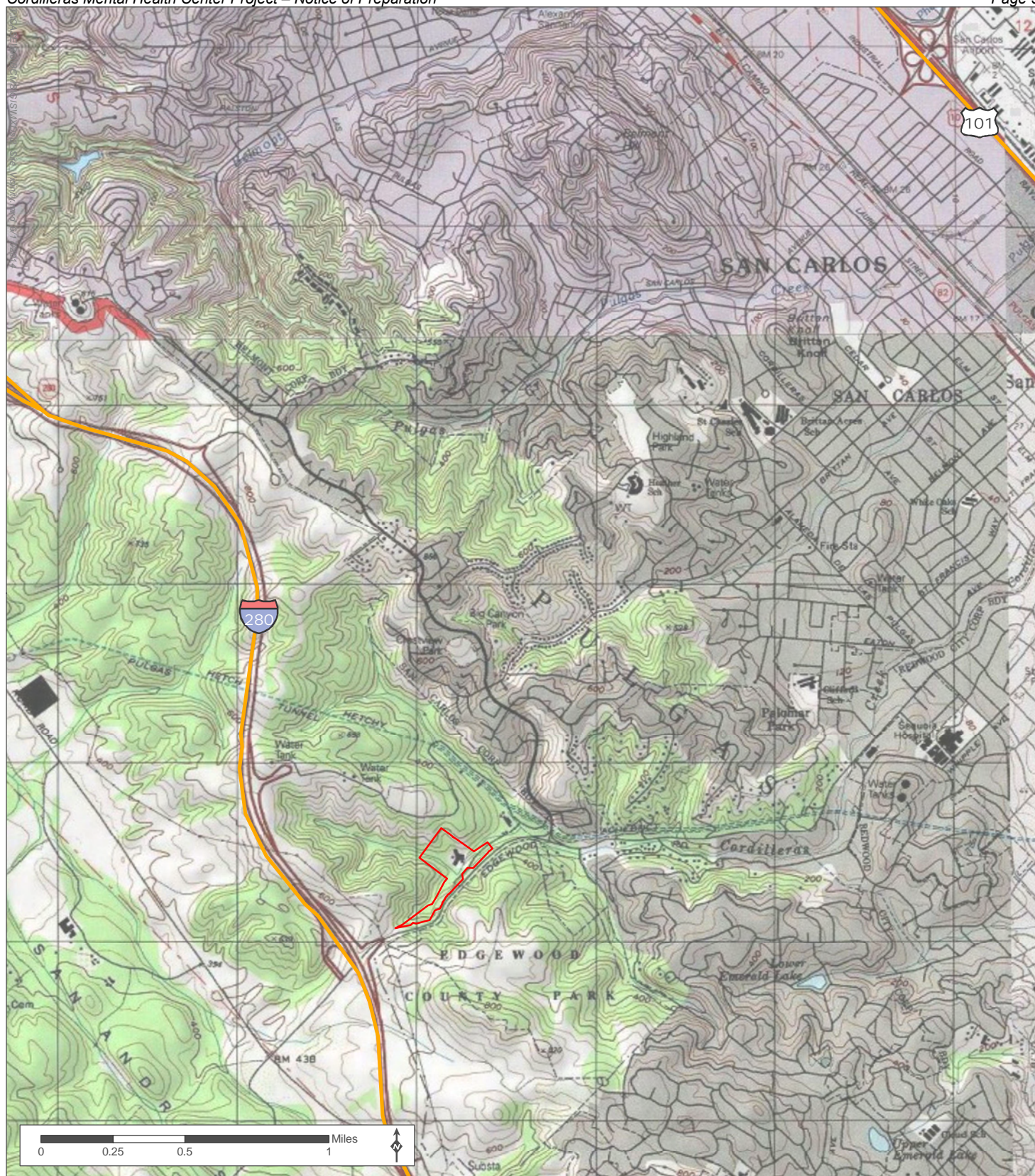
As such, the Draft EIR will address the following resource areas in depth:

- | | |
|------------------------------------|----------------------------------|
| 1) Air Quality | 6) Hydrology and Water Quality |
| 2) Biological Resources | 7) Noise |
| 3) Cultural Resources | 8) Transportation and Traffic |
| 4) Geology and Soils | 9) Utilities and Service Systems |
| 5) Hazards and Hazardous Materials | |

Several areas of potential concern typically associated with new development (e.g., aesthetics, land use, public services, and recreation) are likely to be found less than significant given minimal change from baseline operations and existing regulatory controls. Other environmental issues may not apply due to the absence of a resource or the nature of the project site (e.g., agricultural/ forestry, mineral resources, and population/housing). The final scope of impact analyses conducted for the EIR will be dependent upon the outcomes of the NOP public review process.

 Property Boundary

Figure 1 Regional Location
Cordilleras Mental Health Center



Source: ESRI 2014

 Property Boundary

Figure 2 Site Vicinity Location
Cordilleras Mental Health Center

Figure 3
Aerial Photograph
with Property Boundary
Cordilleras Mental Health Center


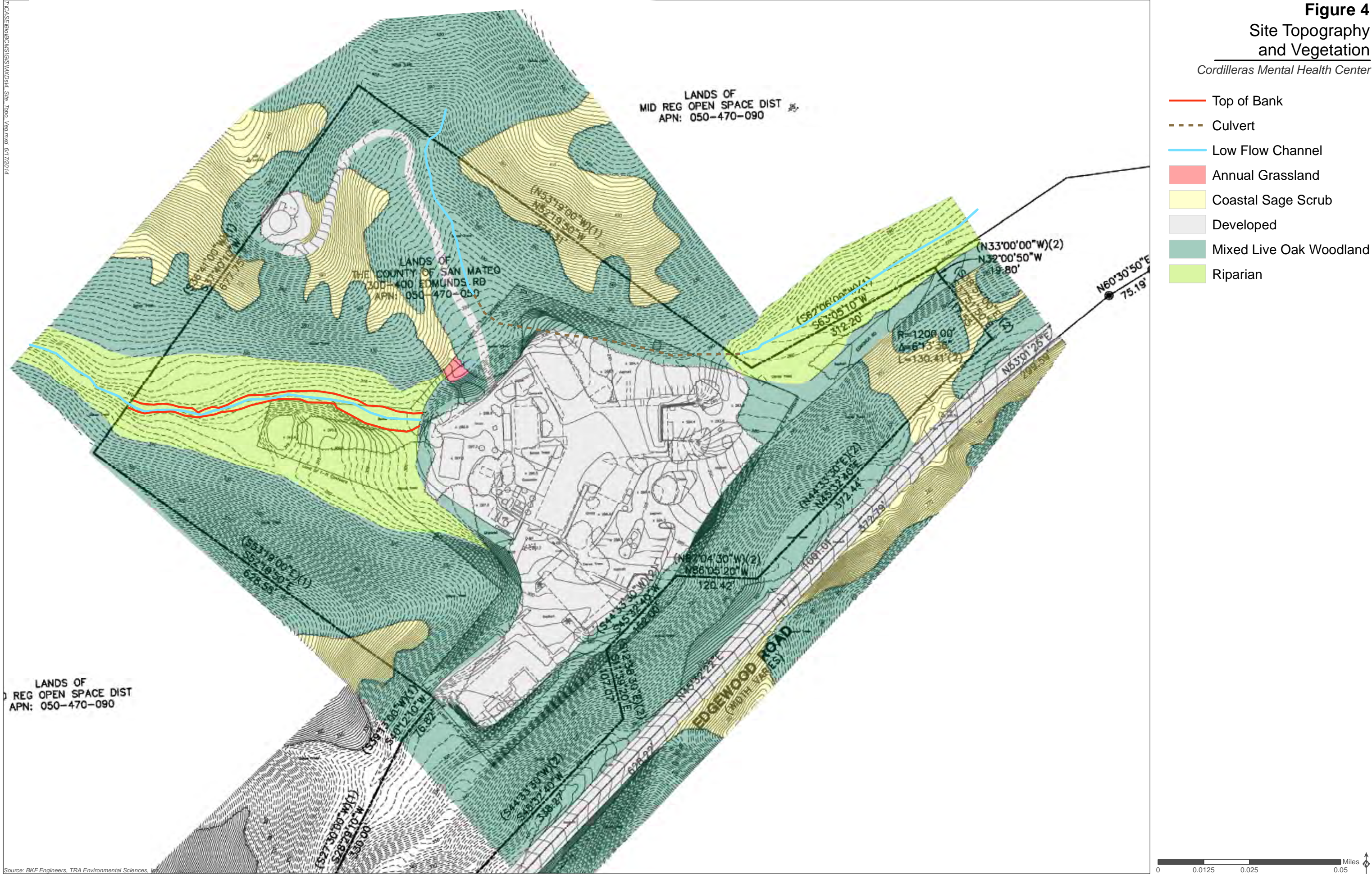
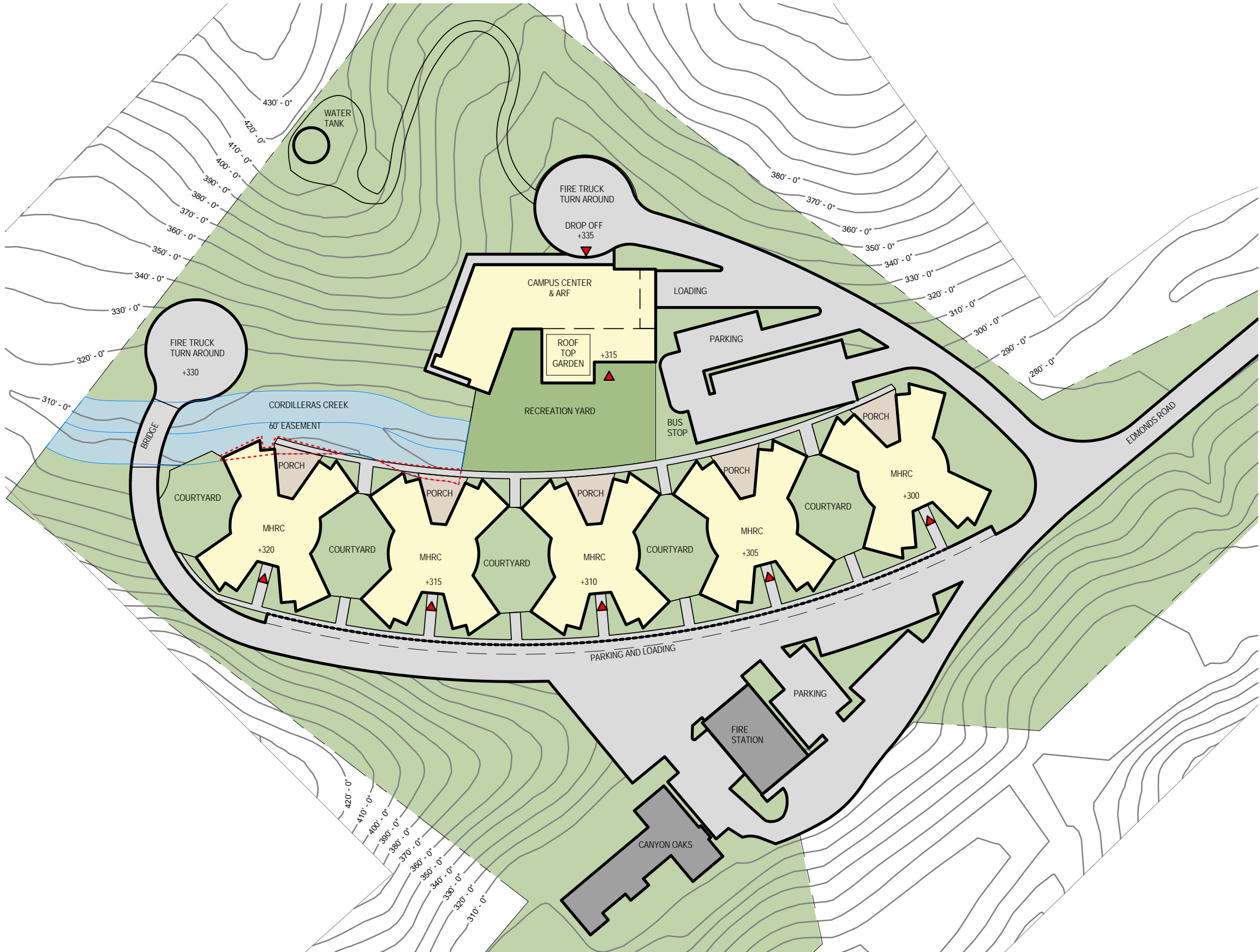
 Property Boundary



Figure 4
Site Topography and Vegetation
Cordilleras Mental Health Center





Cordilleras Mental Health Center
Figure 5 Concept Site Plan June 10, 2015

DEPARTMENT OF TRANSPORTATION

DISTRICT 4

P.O. BOX 23660, MS-10D

OAKLAND, CA 94623-0660

PHONE (510) 286-5528

FAX (510) 286-5559

TTY 711

<http://www.dot.ca.gov/dist4/>

*Serious Drought.
Help save water!*

July 22, 2015

SM280159
SCH# 2015072003

Mr. Rob Kalkbrenner
San Mateo County
555 County Center, Fifth Floor
Redwood City, CA 94063

Dear Mr. Kalkbrenner:

Cordilleras Mental Health Center Replacement Project – Notice of Preparation

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the project referenced above. Caltrans' new mission, vision, and goals signal a modernization of our approach to California's transportation system. The following comments are based on the Notice of Preparation. We provide these comments to promote the State's smart mobility goals that support a vibrant economy and build active communities rather than sprawl.

Project Understanding

The project proposes to replace a 3-story mental health center building with five 10,500-square foot 16-bed residential buildings and a 35,000-square foot campus center building with up to 37 - 55 beds on its upper floor. The residential capacity of the project would increase beds to 135 from 117. Staffing would increase from 86 to 145 full-time staff equivalents. Parking would increase from 65 to 85 spaces. The project is located approximately 0.5 miles northeast of I-280 in unincorporated San Mateo County.

Traffic Impact Study

The environmental document should include an analysis of the travel demand expected from the proposed project. Early collaboration leads to better outcomes for all stakeholders. We are in the process of updating our Traffic Impact Study Guide for consistency with SB 743, but meanwhile we recommend using the Caltrans' Guide for the Preparation of Traffic Impact Studies (TIS Guide) for determining which scenarios and methodologies to use in the analysis. It is available at http://www.dot.ca.gov/hq/tpp/offices/ocp/igr_ceqa_files/tisguide.pdf. Please ensure that a Traffic Impact Study is prepared providing the information detailed below:

1. Vicinity map, regional location map, and a site plan that clearly shows project access in relation to nearby state roadways. Clearly identify the state right-of-way (ROW). Project driveways, local roads and intersections, car and bicycle parking and transit facilities should be mapped.
2. Project-related trip generation, distribution, and assignment including per capita use of transit, rideshare or active transportation modes and vehicle miles travelled (VMT) reduction factors. The assumptions and methodologies used to develop this information should be detailed in the study, should utilize the latest place based research, and should be supported with appropriate documentation.
3. Schematic illustration of walking, biking, and auto traffic conditions at the project site and study area roadways, trip distribution percentages and volumes as well as intersection geometrics, i.e. lane configurations, for AM and PM peak periods.
4. Mitigation for any roadway sections or intersection with increasing VMT should be identified. Mitigation may include contributions to a regional or local fee program as applicable and should support the use of transit and active transportation modes.
5. Impacts on pedestrians and bicyclists resulting from projected VMT increases should be analyzed. The analysis should describe any pedestrian and bicycle mitigation measures and safety countermeasures that would be needed as a means of maintaining and improving access to transit facilities and reducing vehicle trips.

We also encourage you to develop Travel Demand Management (TDM) policies to encourage usage of nearby public transit lines and reduce vehicle trips on the state highways. These policies could include lower parking ratios, car-sharing programs, bicycle parking, and providing transit passes to residents. For information about parking ratios, see the Metropolitan Transportation Commission (MTC) report *Reforming Parking Policies to Support Smart Growth* or visit the MTC parking webpage: http://www.mtc.ca.gov/planning/smart_growth/parking/.

Active Transportation

Please consider pedestrian, bicycling, and transit performance or quality of service measures and modeling as a means of estimating the project impacts to these modes and evaluating mitigation measures and tradeoffs.

Traffic Impact Fees

If improvements to the Caltrans ROW are proposed, please identify any Traffic Impact Fees associated with the project. The scheduling and costs associated with planned improvements on the Caltrans ROW should be listed, in addition to identifying viable funding sources.

Mr. Rob Kalkbrenner/San Mateo County
July 22, 2015
Page 3

Please feel free to call or email Sandra Finegan at (510) 622-1644 or sandra.finegan@dot.ca.gov with any questions regarding this letter.

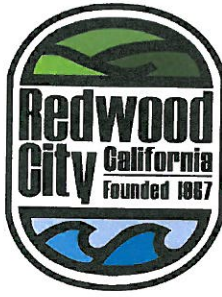
Sincerely,



PATRICIA MAURICE
District Branch Chief
Local Development – Intergovernmental Review

cc: State Clearinghouse

Community Development Department
1017 Middlefield Road
Redwood City, CA 94064



Phone (650) 780-7234
Fax (650) 780-0128
www.redwoodcity.org

August 25, 2015

Robert Kalkbrenner
Capital Projects Manager
San Mateo County
555 County Center, Fifth Floor
Redwood City, CA 94063

RE: Cordilleras Mental Health Center Replacement Project NOP

Dear Mr. Kalkbrenner:

Thank you for providing the City of Redwood City the opportunity to provide comments on the scope and content of the Environmental Impact Report for the Cordilleras Mental Health Center Replacement Project. Based on the project description and the conceptual site plan included in the Notice of Preparation, the following are preliminary comments:

- Community Outreach: Please ensure that adjacent residential neighborhoods are informed of the project early on in the process and as the plans become more fully developed, including property owners and tenants along Edgewood Road, Crestview Drive, and other nearby residential streets. The City also recommends that the following neighborhood associations be included in the outreach:

Emerald Hills Homeowners Association
P.O. Box 620449
Woodside, CA 94062
board@emeraldhills.org

Farm Hill Neighborhood Association
René White
3981 Lonesome Pine
Redwood City, CA 94061
rwhite@lizmar.com

Oak Knoll / Edgewood Park Neighborhood Association
Michael Verdone
149 Wellesley Crescent
Redwood City, CA 94062
edgewoodoakknoll@aol.com

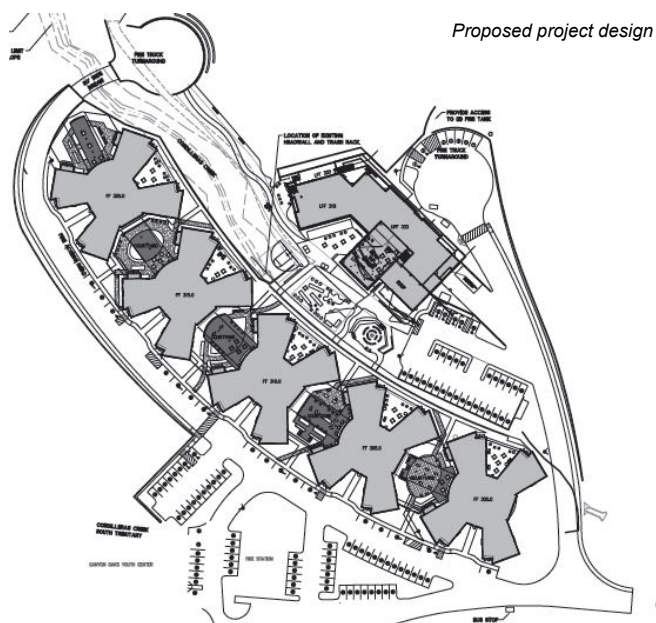
- Number of Employees: The project calls for an increase in the number of beds from 117 to 135 (net increase of 18 beds) and an increase in the number of employees from 86 to 145 (net increase of 59 employees). Please clarifying information regarding the need for the net increase of 59 employees and the associated parking and traffic demands associated with this increase.

Please note that the City may have additional comments or questions as the plans become more fully developed. We look forward to receiving notice of the upcoming EIR scoping session.

Regards,

A handwritten signature in black ink that reads "Michelle Littlefield". The script is cursive and fluid, with the first name and last name clearly distinguishable.

Michelle Littlefield
Associate Planner
(650) 780-7238
mlittlefield@redwoodcity.org



San Mateo County, Department of Public Works



Public Scoping Meeting Comments

Cordilleras Mental Health Center Replacement Project

September 17th, 7:00pm – 8:30 PM

455 County Center, First Floor, Room 101, Redwood City

County Representatives in Attendance:

Robert Kalkbrenner, Department of Public Works, Capital Projects Manager
Terry Wilcox-Rittgers, County Behavioral Health and Recovery Services, Area Manager
Larry Funk, County Health Department, Consulting Project Coordinator
Kate Werner, MIG|TRA Environmental Science, CEQA Manager
Tay Peterson, MIG|TRA Environmental Science, Biological Advisor

Meeting Attendees:

Lisa Porras, City of San Carlos Planning Department
Debbie Bazan, County Manager's Office
John Boerge, community member

Comments raised during meeting:

- Concern for potential impacts to creek and interest in seeing project alternatives address creek impacts
- Height of new four-story building and possible visual effects
- Interest in availability of technical studies prepared to date

Cordilleras Health System Replacement Project EIR

Appendix B: Project Drawings

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2 BUILDING A, ENTRY PRESPECTIVE RENDERING

12" = 1'-0"



1 BUILDING A, BREEZWAY PRESPECTIVE RENDERING

12" = 1'-0"

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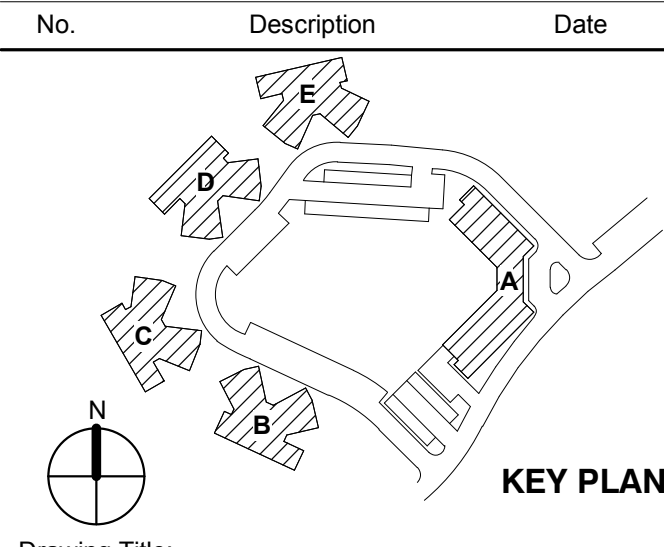
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415.383.7900

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REVISED SCHEMATIC DESIGN 15 MAR 2019



RENDERINGS

Project No.: 005318.00 Checked by: Checker

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2 BUILDING B, C, AND D ENTRY PERSPECTIVE RENDERING
12" = 1'-0"



1 BUILDING A, OPEN SPACE PERSPECTIVE RENDERING
12" = 1'-0"

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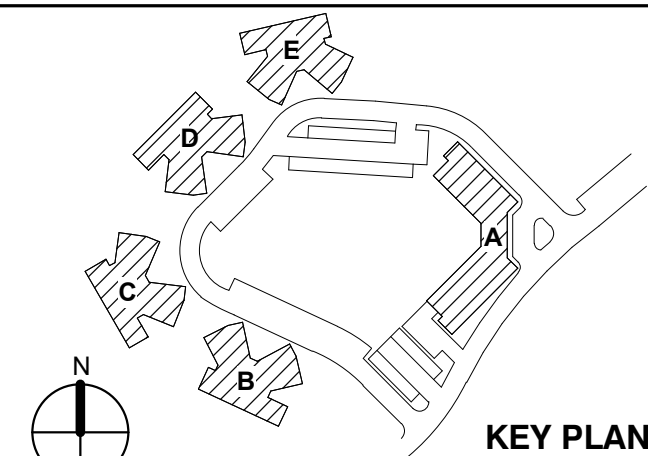
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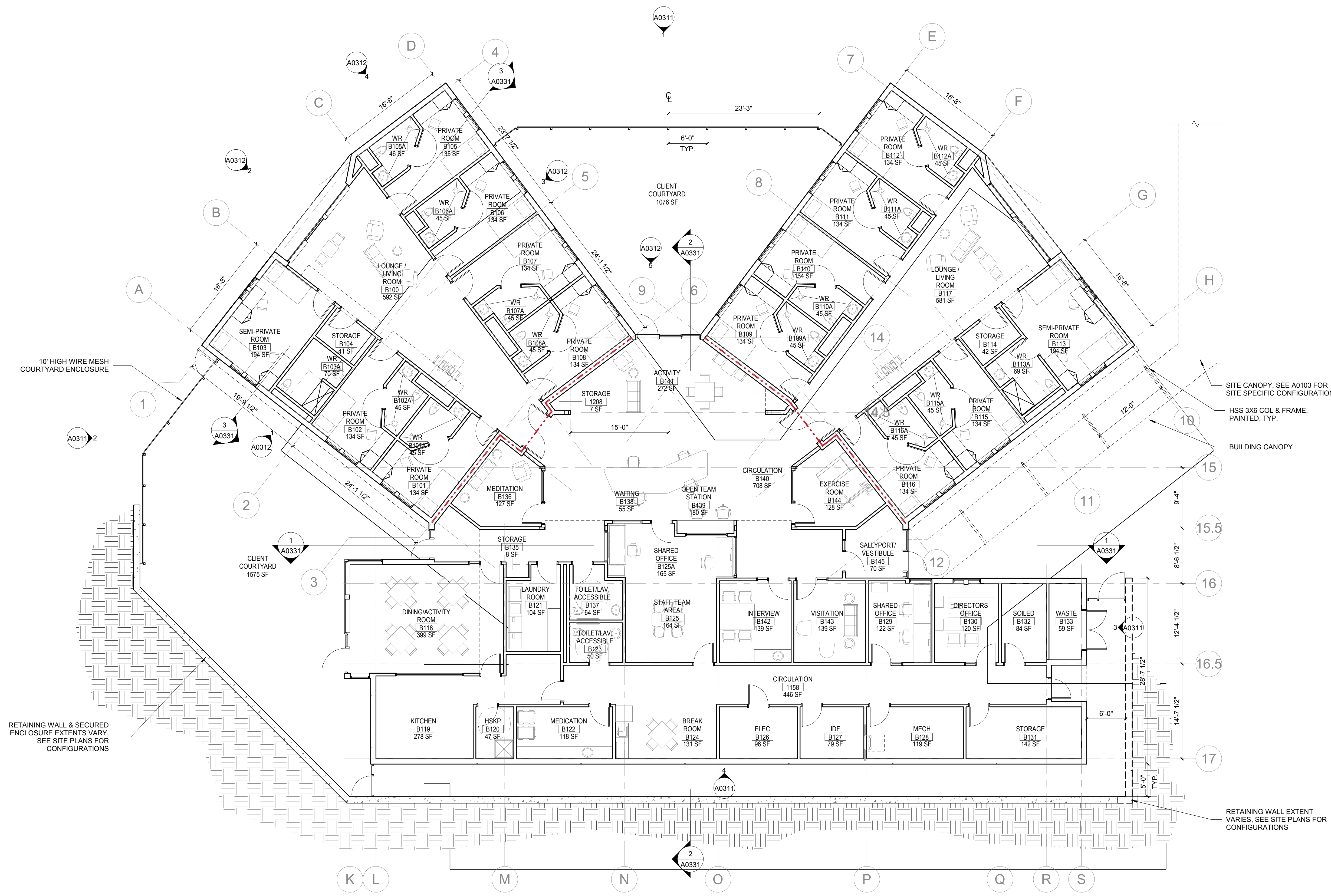
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1 LEVEL 01 PLAN - BUILDING B (BUILDINGS C, D & E SIM)
1/8" = 1'-0"

GENERAL SHEET NOTES

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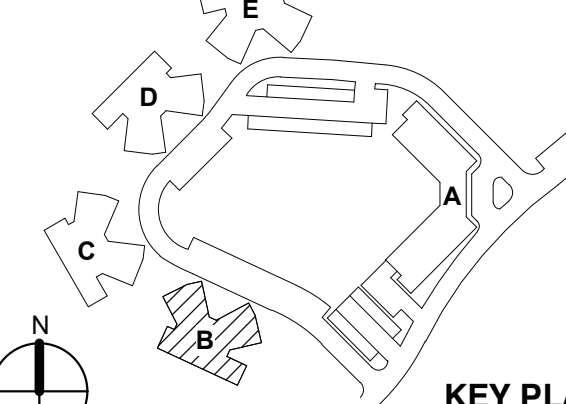
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SHEET KEYNOTES

SHEET LEGEND

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KEY PLAN

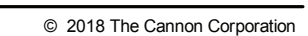
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MHRC - LEVEL 01 FLOOR
PLAN - BUILDING B (C, D,
& E SIM)

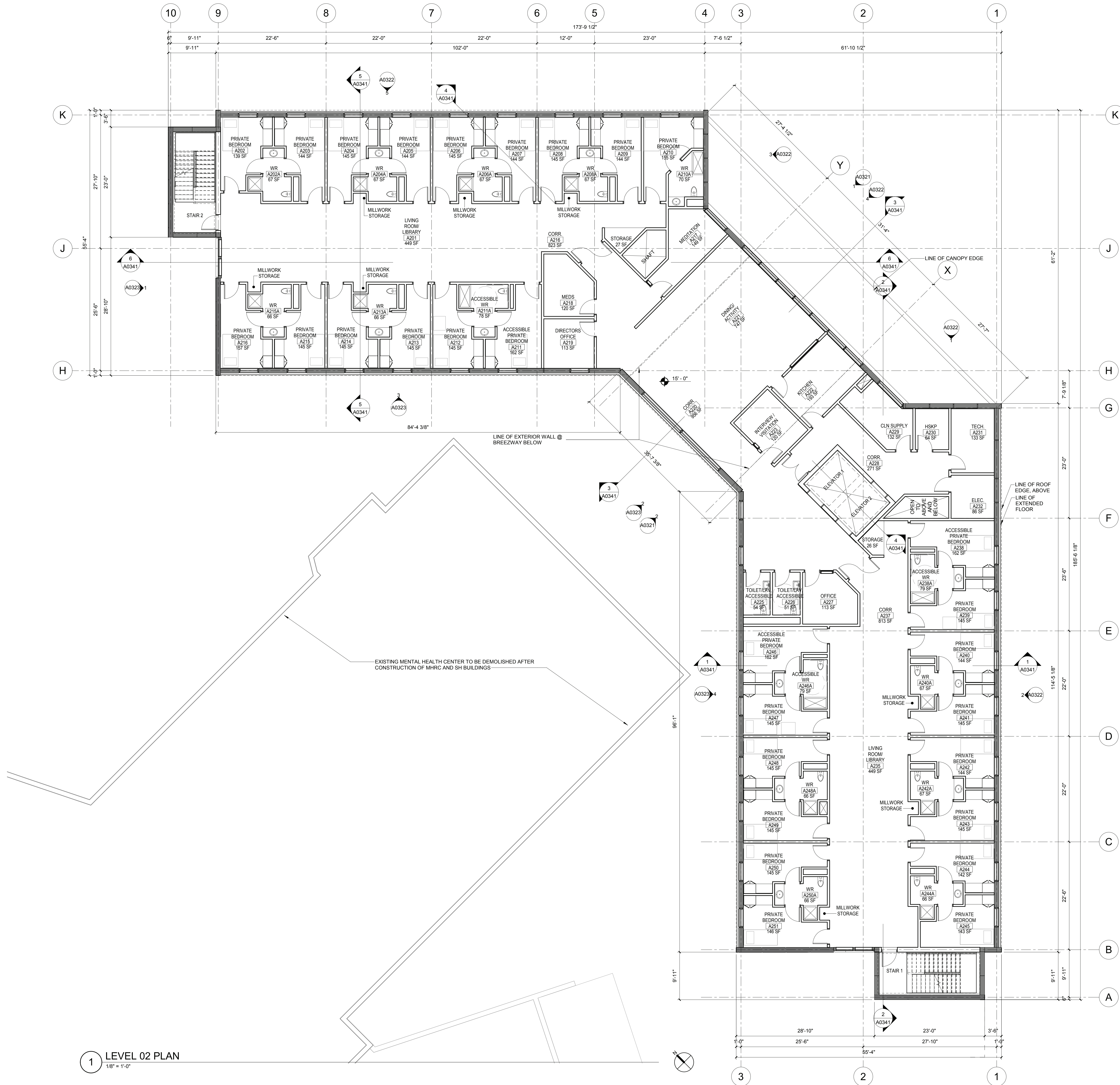
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1 LEVEL 02 PLAN
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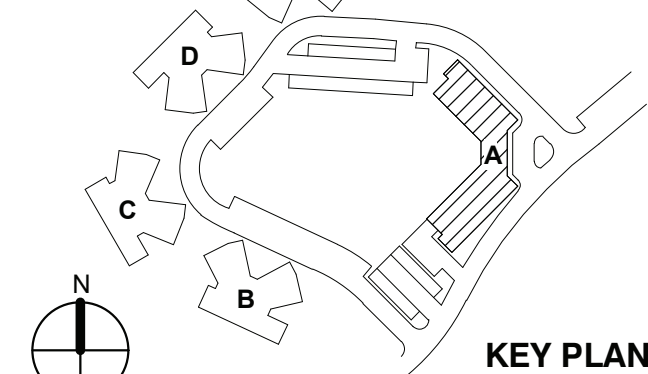
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SUPPORTED HOUSING
LEVEL 02 FLOOR PLAN

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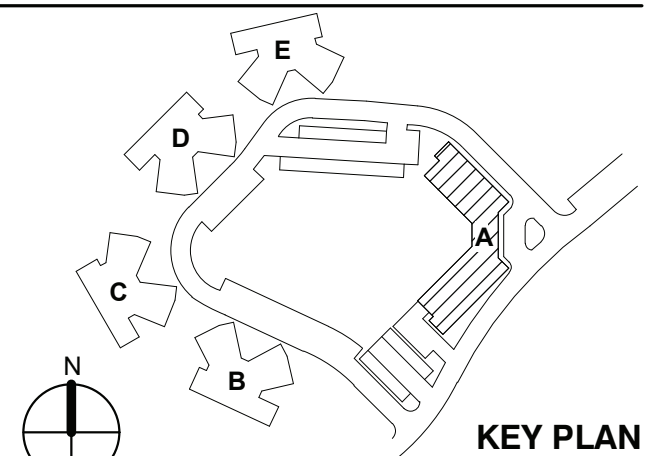
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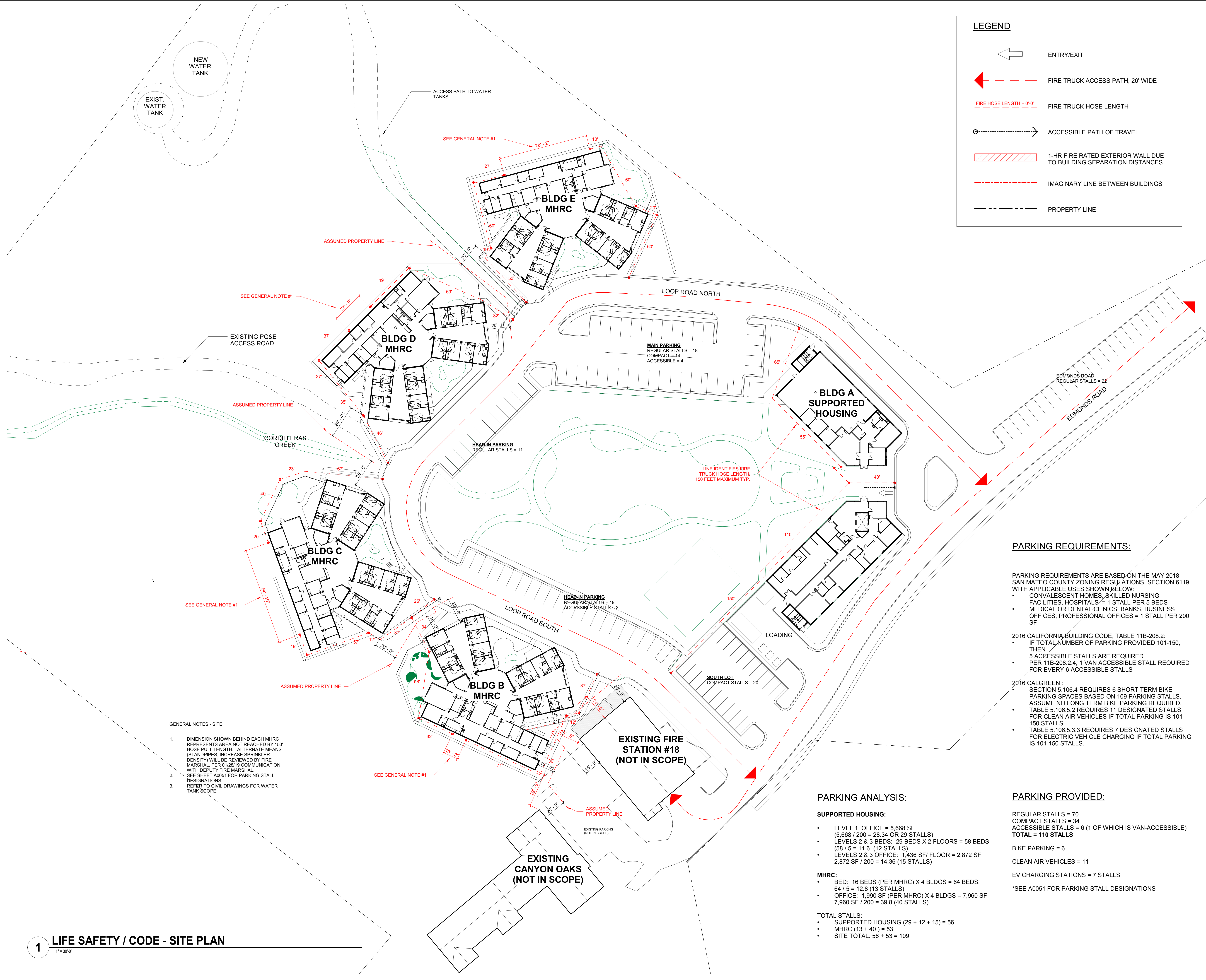
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LEGEND

- ENTRY/EXIT
- FIRE TRUCK ACCESS PATH, 26' WIDE
- FIRE TRUCK HOSE LENGTH
- ACCESSIBLE PATH OF TRAVEL
- 1-HR FIRE RATED EXTERIOR WALL DUE TO BUILDING SEPARATION DISTANCES
- IMAGINARY LINE BETWEEN BUILDINGS
- PROPERTY LINE

GENERAL NOTES - SITE

- DIMENSION SHOWN BEHIND EACH MHRC REPRESENTS AREA NOT REACHED BY 150' HOSE PULL LENGTH. ALTERNATE MEANS (STANDPIPES, INCREASE SPRINKLER DENSITY) WILL BE REVIEWED BY FIRE MARSHAL. PER 01/20/19 COMMUNICATION WITH DEPUTY FIRE MARSHAL. SEE SHEET A0051 FOR PARKING STALL DESIGNATIONS. REFER TO CIVIL DRAWINGS FOR WATER TANK SCOPE.
-
-

PARKING REQUIREMENTS:

- PARKING REQUIREMENTS ARE BASED ON THE MAY 2018 SAN MATEO COUNTY ZONING REGULATIONS, SECTION 6119, WITH APPLICABLE USES SHOWN BELOW:
- CONVALESCENT HOMES, SKILLED NURSING FACILITIES, HOSPITALS = 1 STALL PER 5 BEDS
 - MEDICAL OR DENTAL CLINICS, BANKS, BUSINESS OFFICES, PROFESSIONAL OFFICES = 1 STALL PER 200 SF
- 2016 CALIFORNIA BUILDING CODE, TABLE 11B-208.2:
- IF TOTAL NUMBER OF PARKING PROVIDED 101-150, THEN 5 ACCESSIBLE STALLS ARE REQUIRED
 - PER 11B-208.2.4, 1 VAN ACCESSIBLE STALL REQUIRED FOR EVERY 6 ACCESSIBLE STALLS
- 2016 CALGREEN:
- SECTION 5.106.4 REQUIRES 6 SHORT TERM BIKE PARKING SPACES BASED ON 109 PARKING STALLS, ASSUME NO LONG TERM BIKE PARKING REQUIRED.
 - TABLE 5.106.5.2 REQUIRES 11 DESIGNATED STALLS FOR CLEAN AIR VEHICLES IF TOTAL PARKING IS 101-150 STALLS.
 - TABLE 5.106.5.3.3 REQUIRES 7 DESIGNATED STALLS FOR ELECTRIC VEHICLE CHARGING IF TOTAL PARKING IS 101-150 STALLS.

PARKING ANALYSIS:

SUPPORTED HOUSING:

- LEVEL 1 OFFICE = 5,688 SF (5,688 / 200 = 28.34 OR 29 STALLS)
- LEVELS 2 & 3 BEDS: 29 BEDS X 2 FLOORS = 58 BEDS (58 / 5 = 11.6 (12 STALLS))
- LEVELS 2 & 3 OFFICE: 1,436 SF / FLOOR = 2,872 SF 2,872 SF / 200 = 14.36 (15 STALLS)

MHRC:

- BED: 16 BEDS (PER MHRC) X 4 BLDGS = 64 BEDS. 64 / 5 = 12.8 (13 STALLS)
- OFFICE: 1,990 SF (PER MHRC) X 4 BLDGS = 7,960 SF 7,960 SF / 200 = 39.8 (40 STALLS)

TOTAL STALLS:

- SUPPORTED HOUSING (29 + 12 + 15) = 56
- MHRC (13 + 40) = 53
- SITE TOTAL: 56 + 53 = 109

PARKING PROVIDED:

REGULAR STALLS = 70
COMPACT STALLS = 34
ACCESSIBLE STALLS = 6 (1 OF WHICH IS VAN-ACCESSIBLE)
TOTAL = 110 STALLS

BIKE PARKING = 6

CLEAN AIR VEHICLES = 11

EV CHARGING STATIONS = 7 STALLS

*SEE A0051 FOR PARKING STALL DESIGNATIONS

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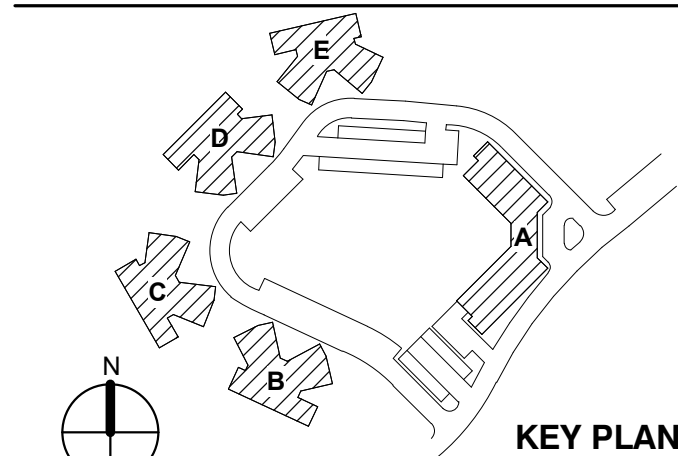
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REVISED SCHEMATIC DESIGN		
No.	Description	Date



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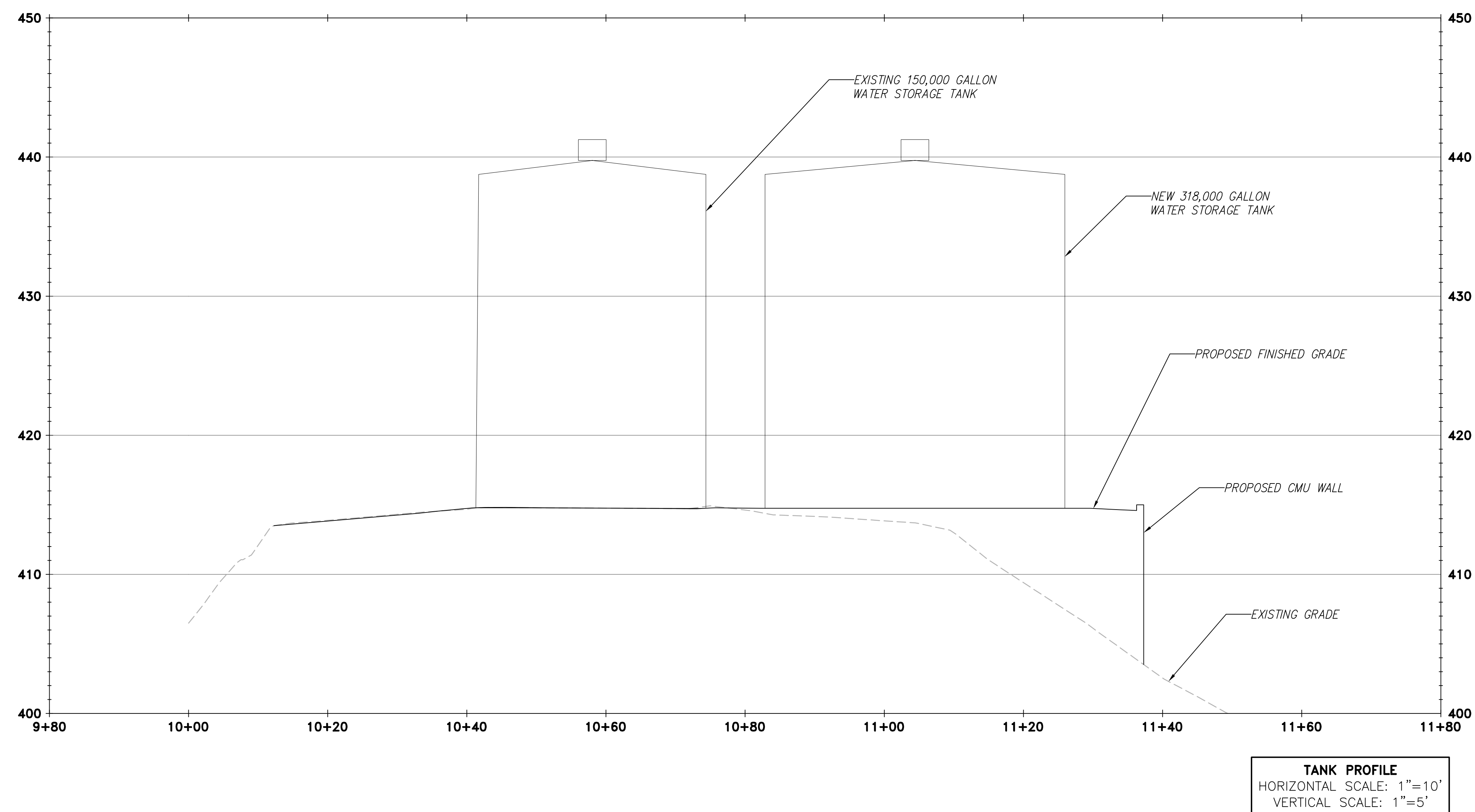
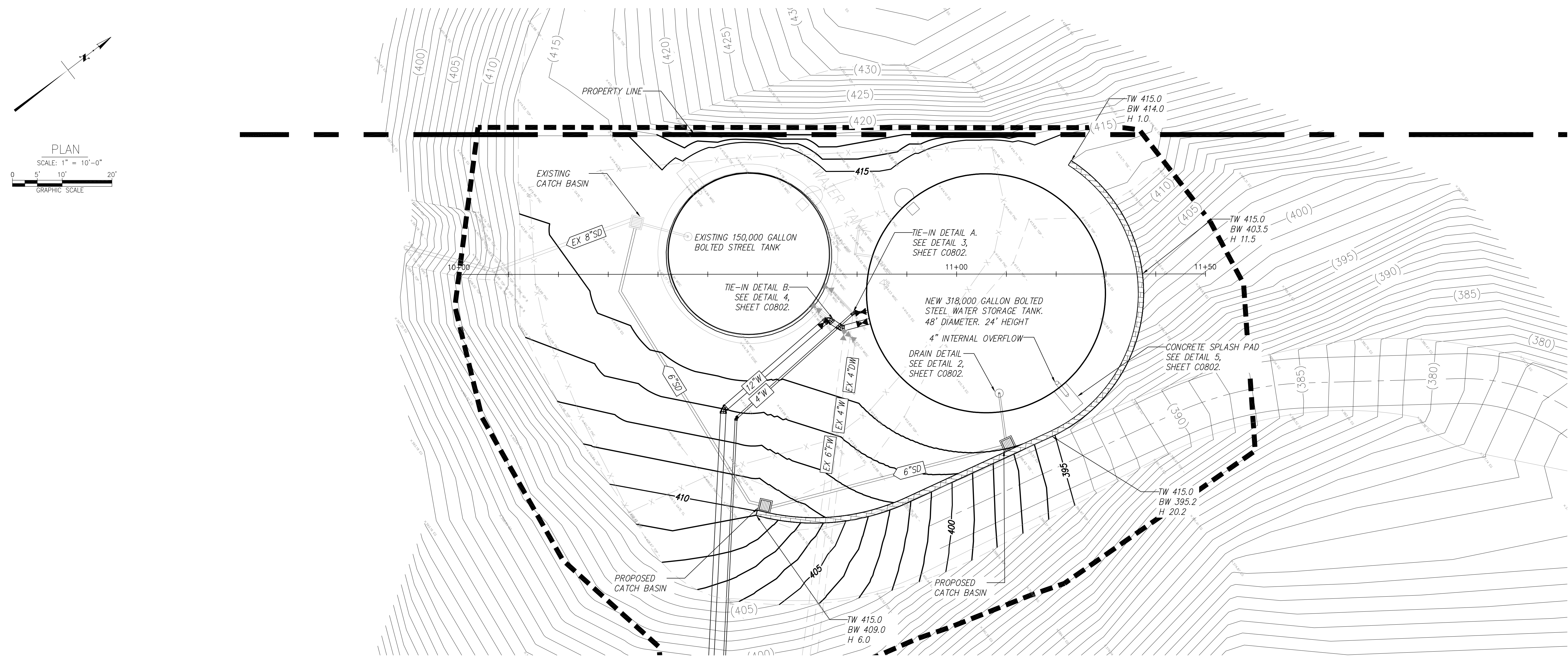
LIFE SAFETY - SITE PLAN

Project No.: 005318.00 Checked by: Checker

G0051

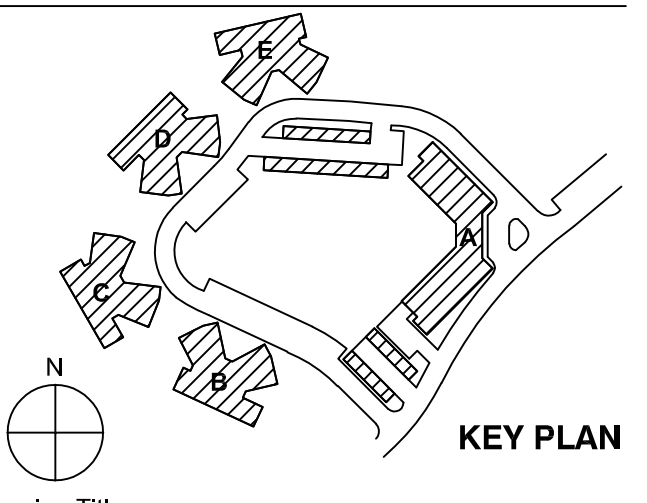
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ADDITIONAL TANK
TYPE IIIA CONSTRUCTION 39,700 SF MAX
2,750 GPM FIREFLOW
2 HOUR DURATION
SPRINKLER DEMAND 1,000 GPM
30 MINUTE DURATION

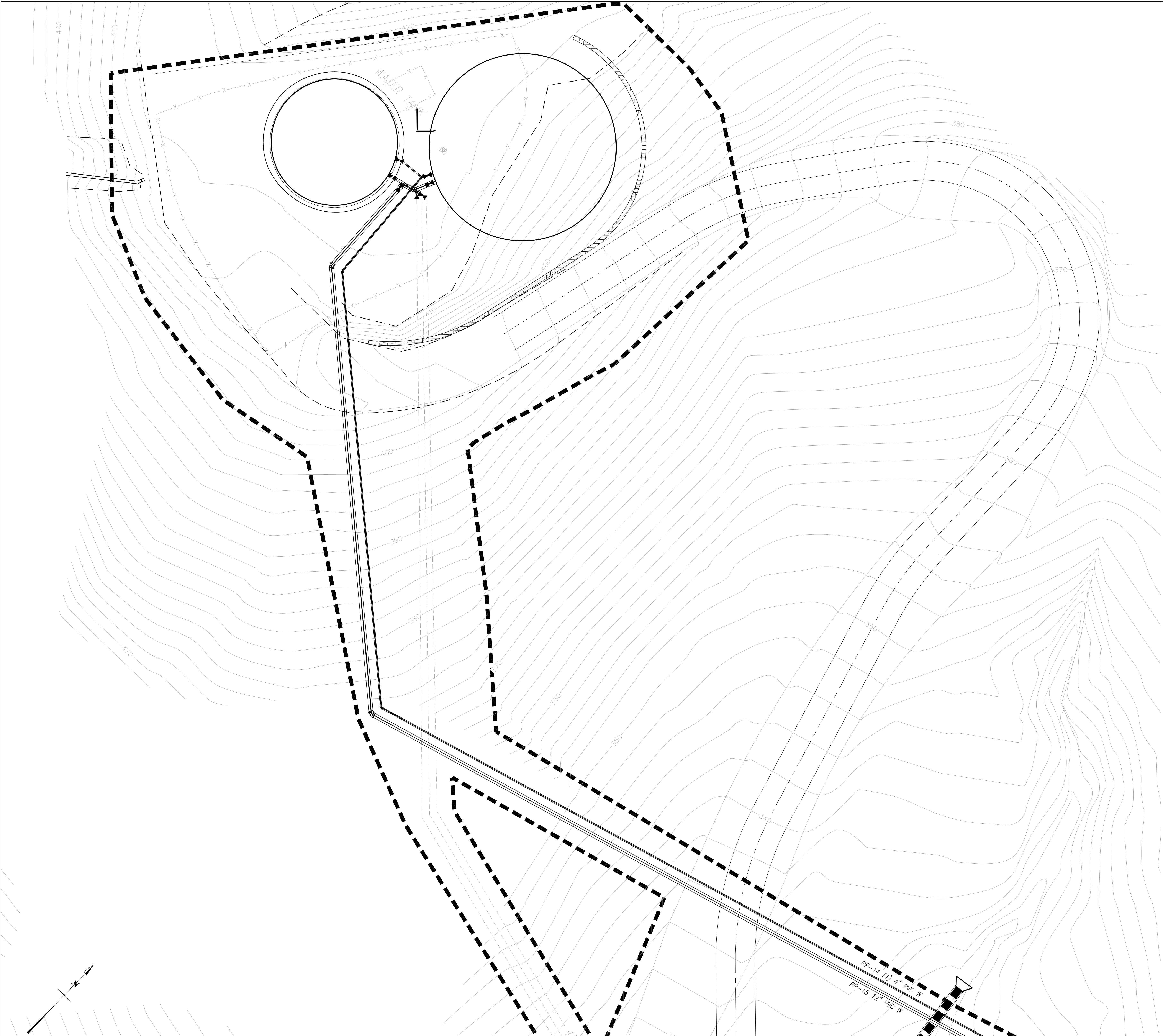
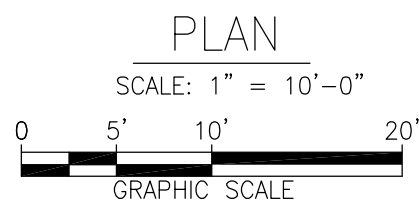
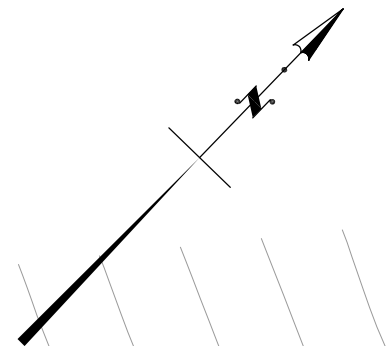
-	50% DESIGN DEVELOPMENT	14 JUNE 2019
-	100% DESIGN DEVELOPMENT	19 JULY 2019
No.	Description	Date

WATER STORAGE
TANK PLAN

Project No.: 005318.00 Checked by: DL

C0801

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LEGEND

- STORM DRAIN LINE
- SANITARY SEWER LINE
- SANITARY SEWER FORCE MAIN
- JOINT TRENCH LINE
- WATER LINE
- CURB INLET
- MANHOLE
- FIRE HYDRANT
- WATER VALVE

County of San Mateo
PDU



Cordilleras Health
System Replacement
Project

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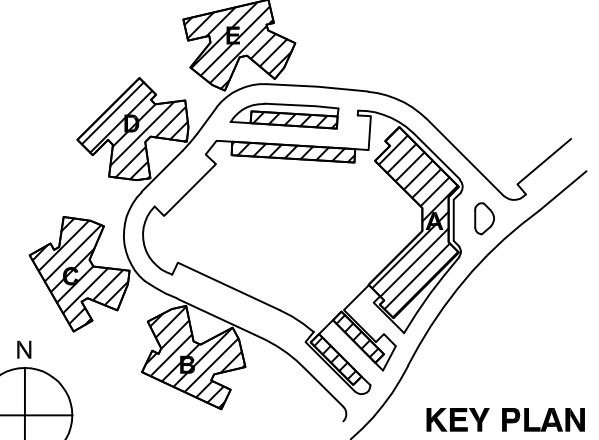
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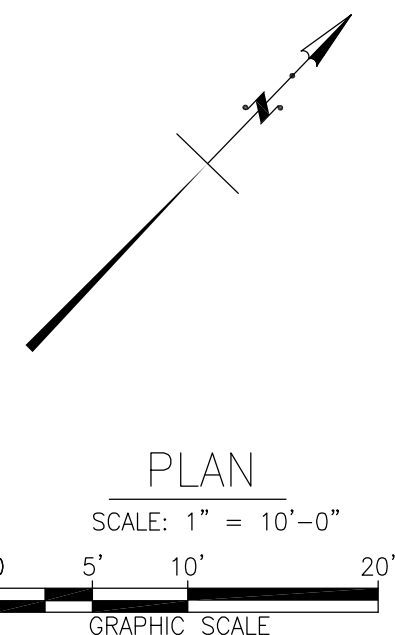
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UTILITY PLAN

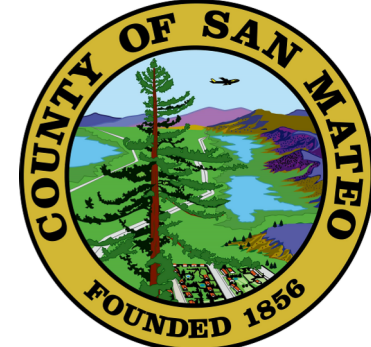
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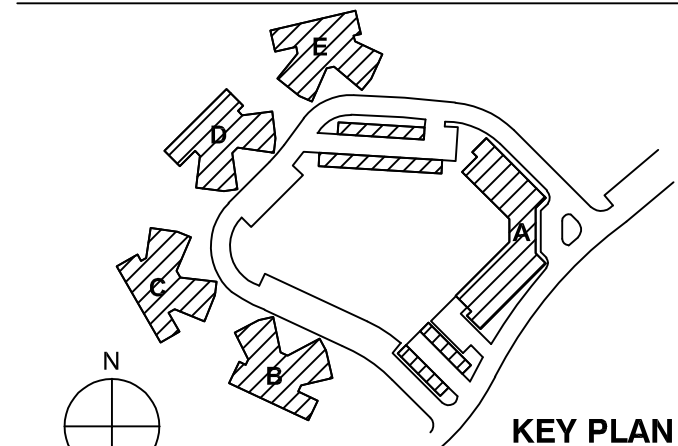
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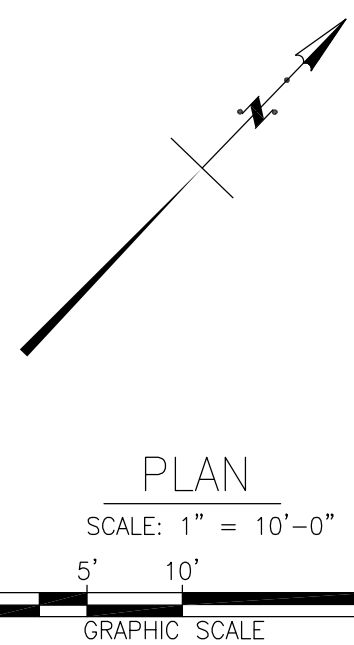
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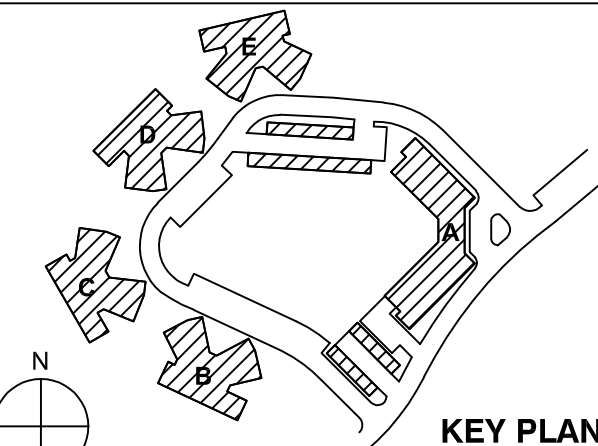
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UTILITY PLAN

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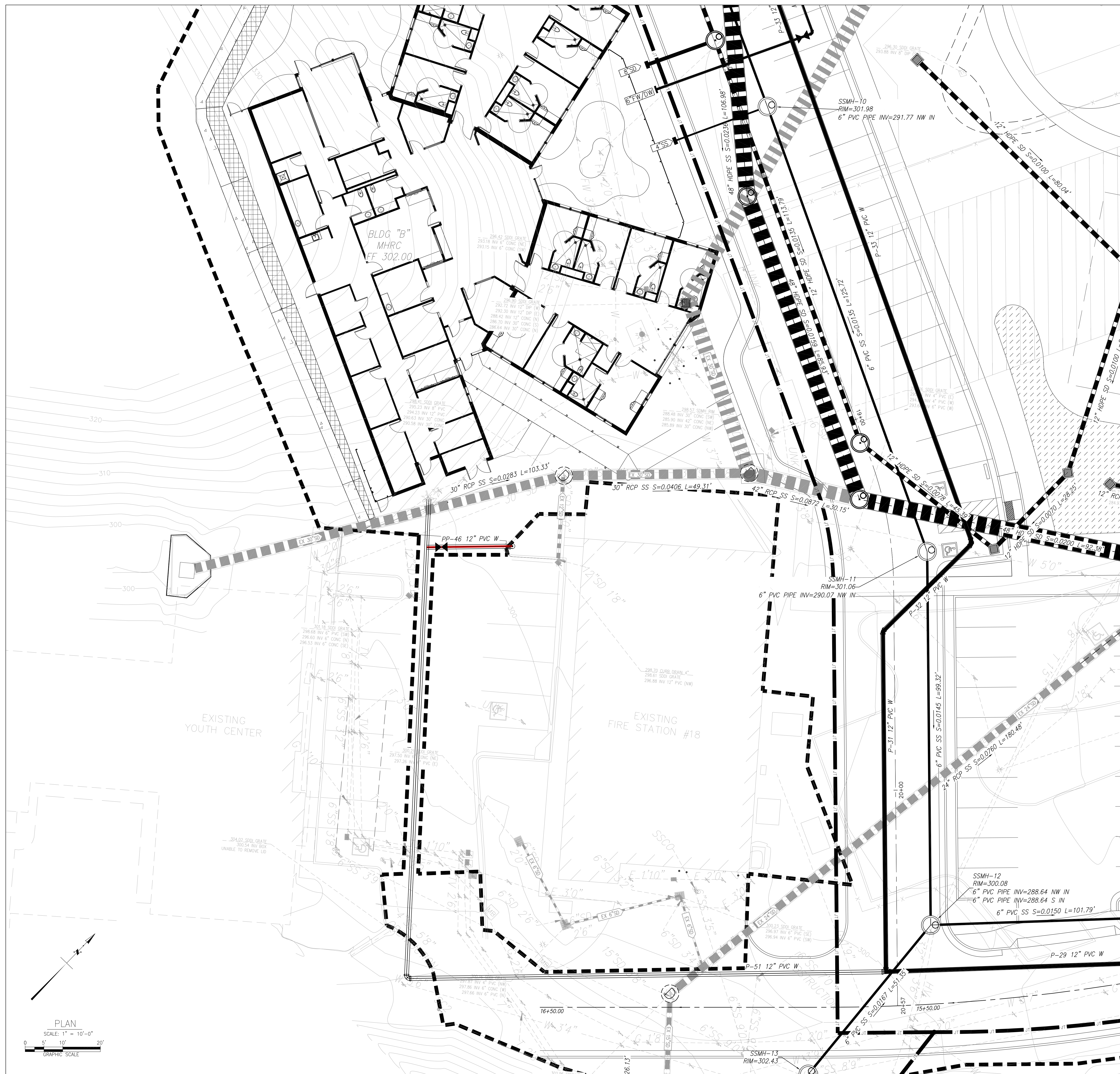
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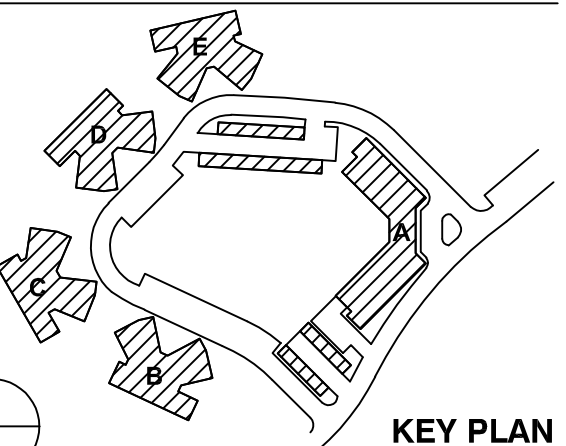
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UTILITY PLAN

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C0404

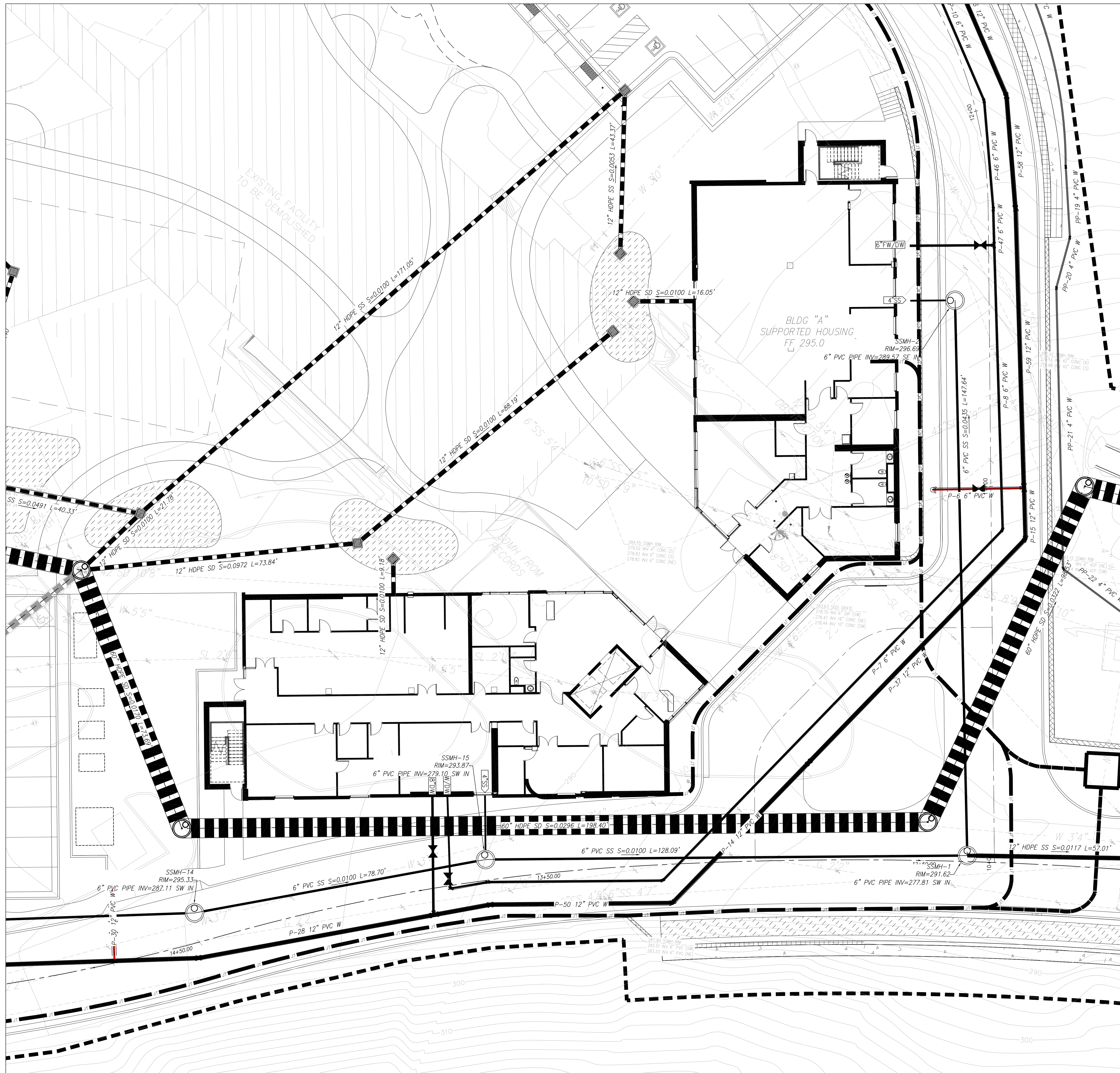
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SEE PHASING PLAN FOR TEMPORARY UTILITY LINES.

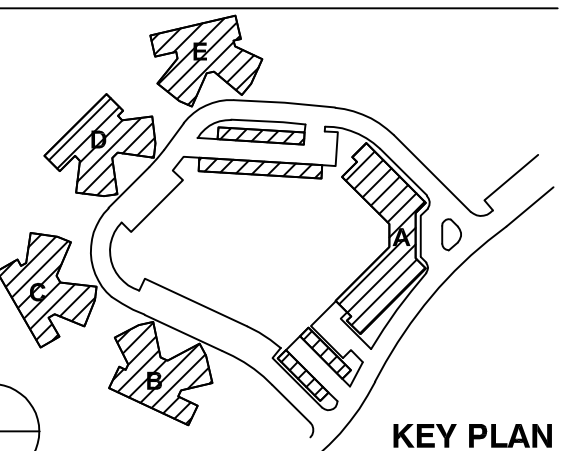
PLAN

SCALE: 1" = 10'-0"

0 5' 10'

GRAPHIC SCALE

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No.	Description	Date



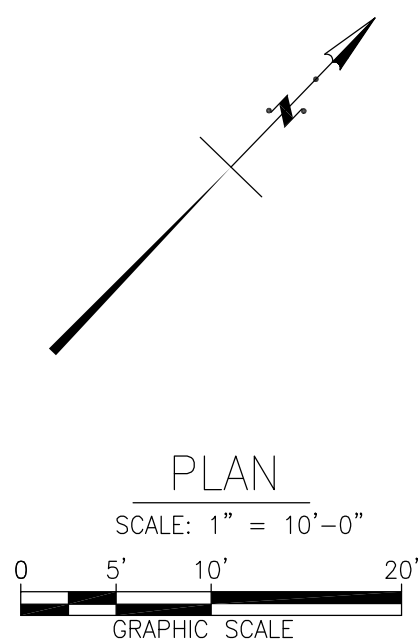
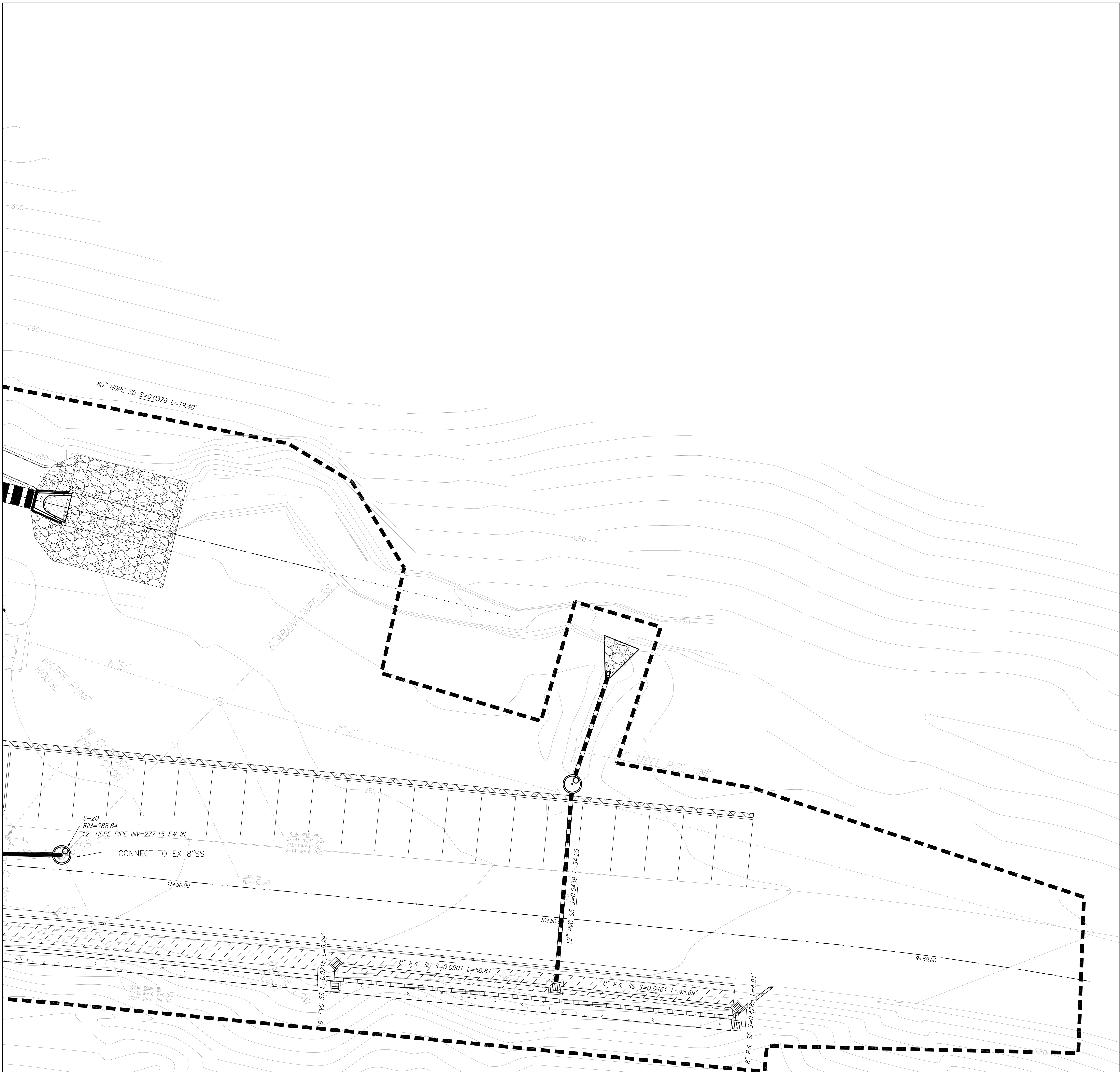
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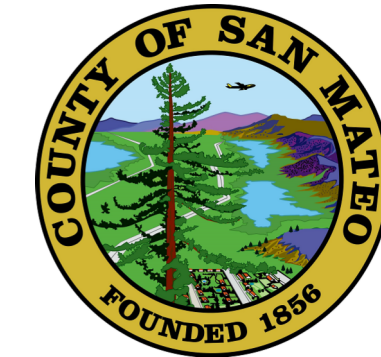
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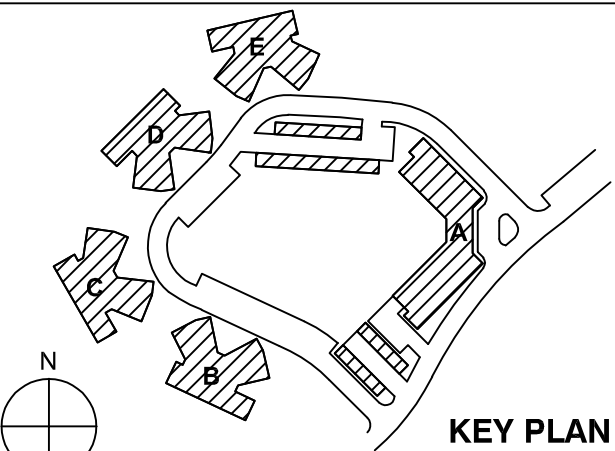
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UTILITY PLAN

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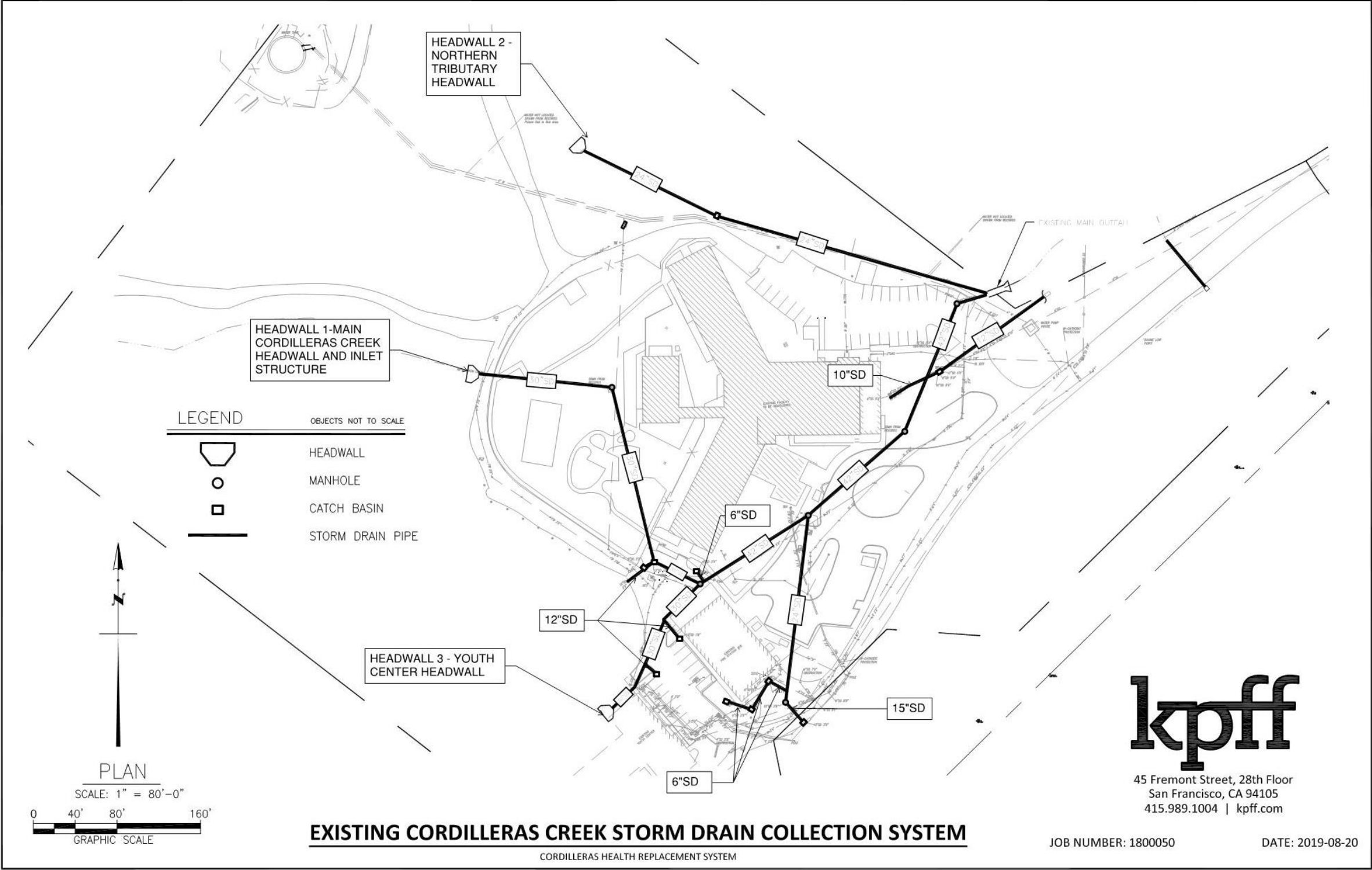


Figure 3.1 Existing Cordilleras Creek Collection System

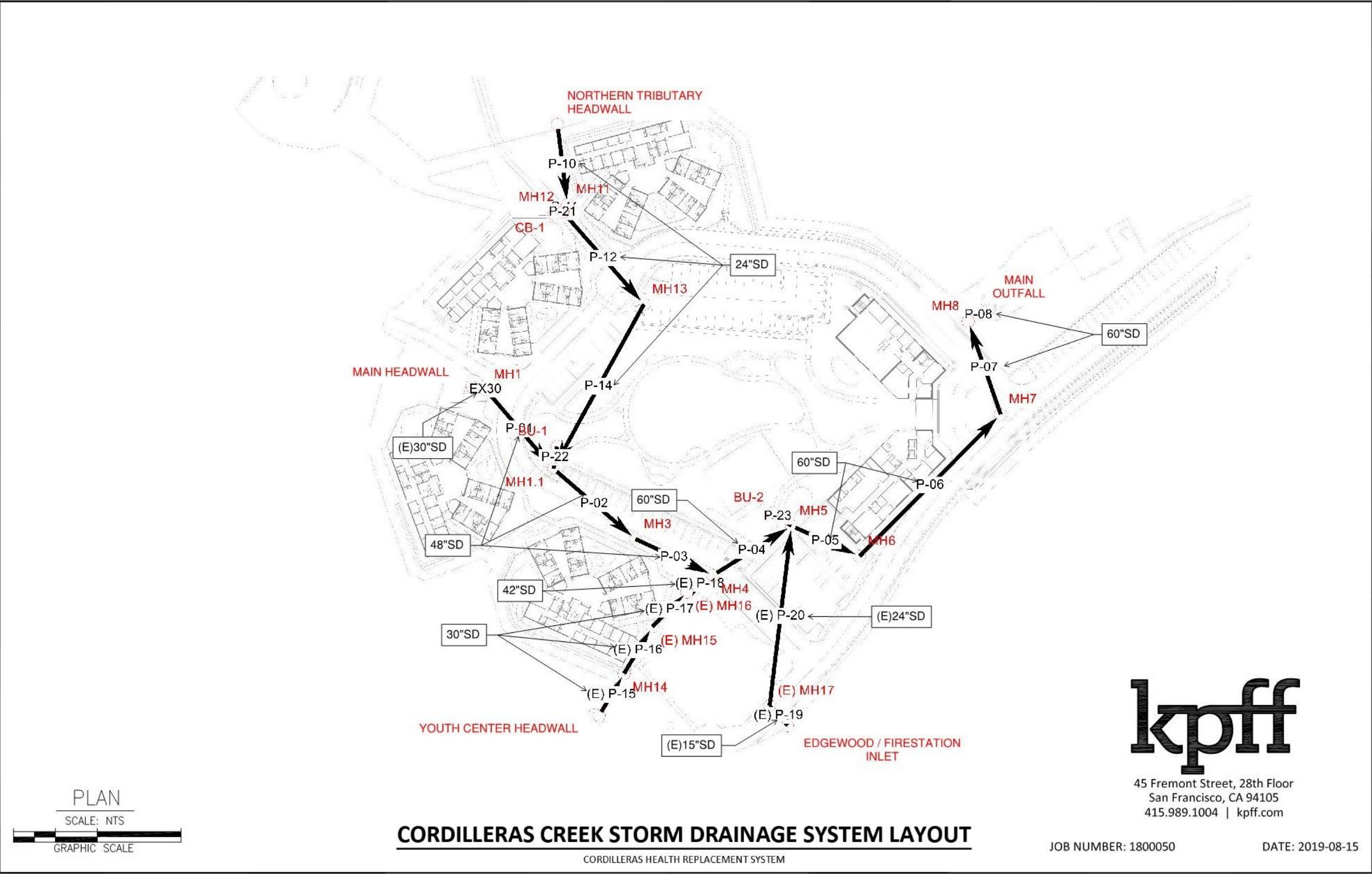
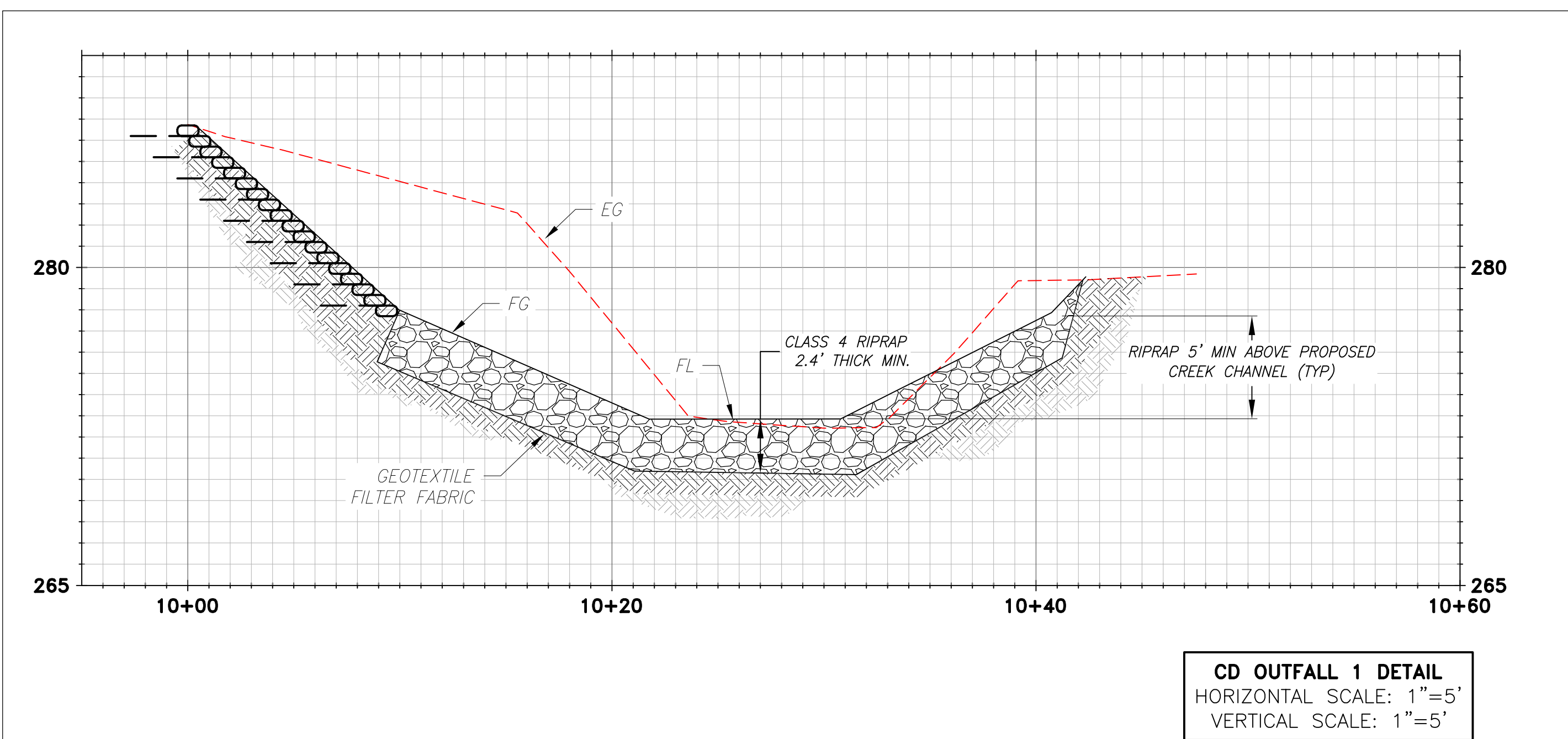
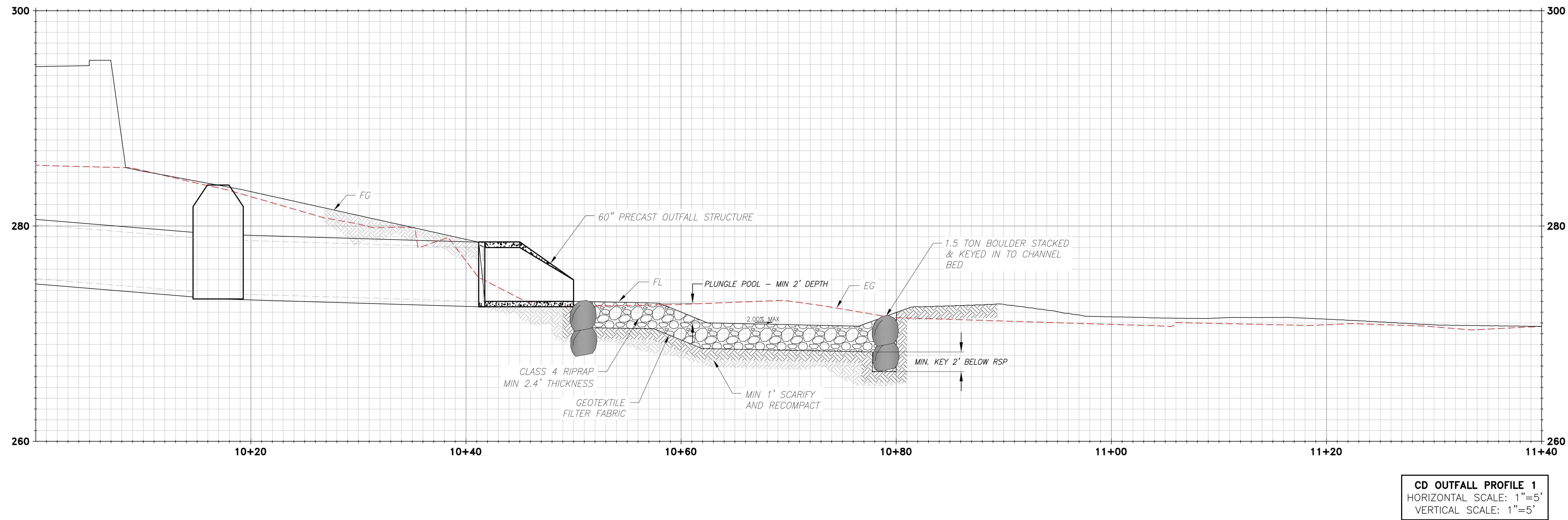
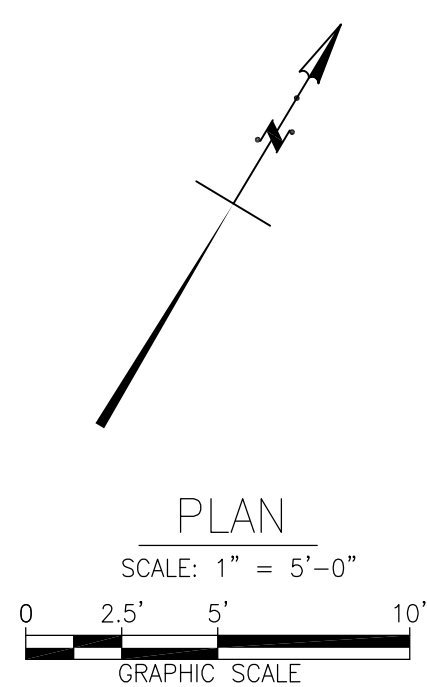


Figure 3.4.1 Cordilleras Creek Storm Drainage System Layout

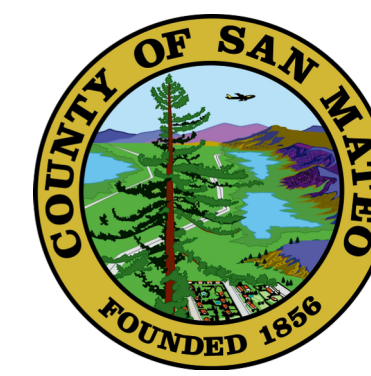


LEGEND:

- | | | | |
|--|--|--|---|
| | RIGHT-OF-WAY | | 1.5 TON ANCHOR BOULDER STACKED AND KEYED INTO CHANNEL BED |
| | LIMITS OF DISTURBANCE | | DEBRIS CATCHMENT SYSTEM
SEE DETAIL 4 - SHEET C0705 |
| | EROSION CONTROL FABRIC
SEE DETAIL 2 - SHEET C0705 | | |
| | GEOGRID REINFORCED FLEX MSE WALL
SEE DETAIL 3 - SHEET C0705 | | |
| | ROCK SLOPE PROTECTION - CLASS 4 | | |
| | 2-LOG AND BOULDER LWD STRUCTURE
SEE DETAIL 1 - SHEET C0705 | | |



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Cordilleras Health
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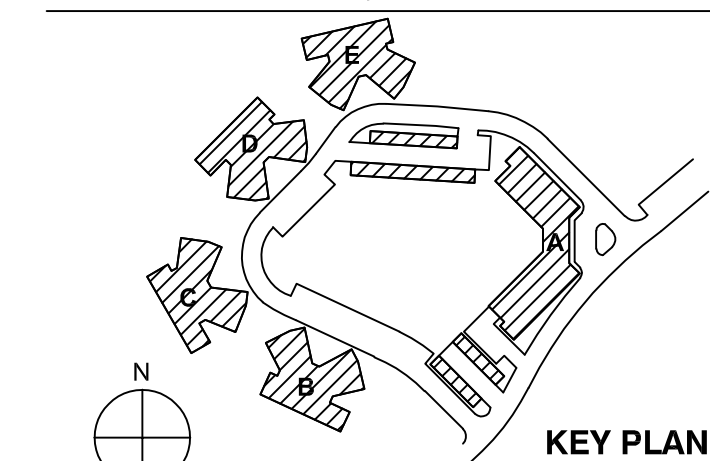
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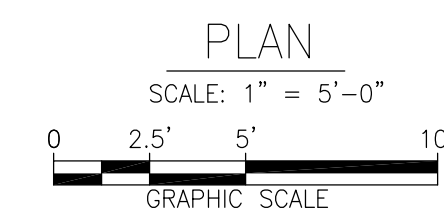
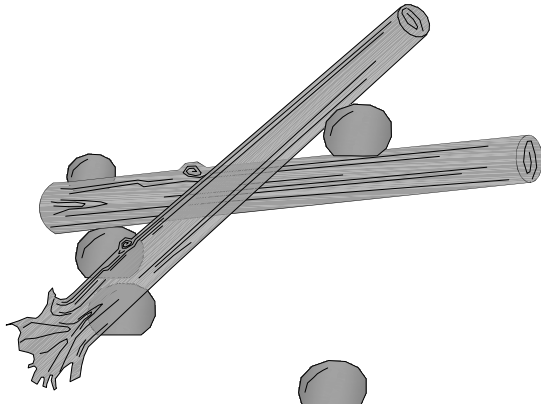
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OUTFALL 1 P&P

Project No.: 005318.00 Checked by: JIA

C0701





Cordilleras Health
System Replacement
Project

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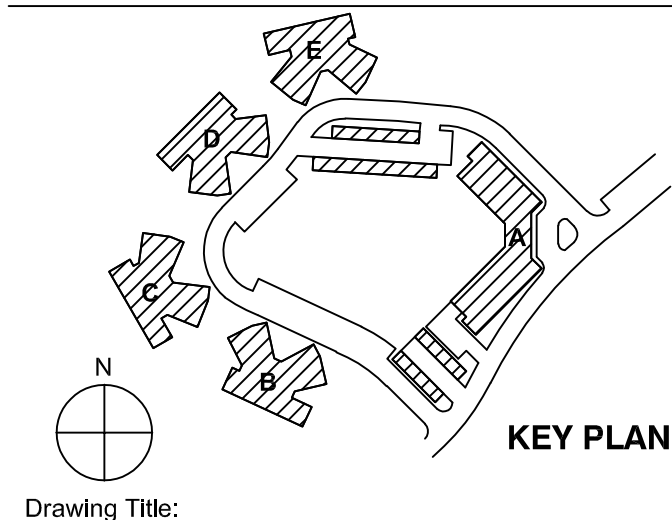
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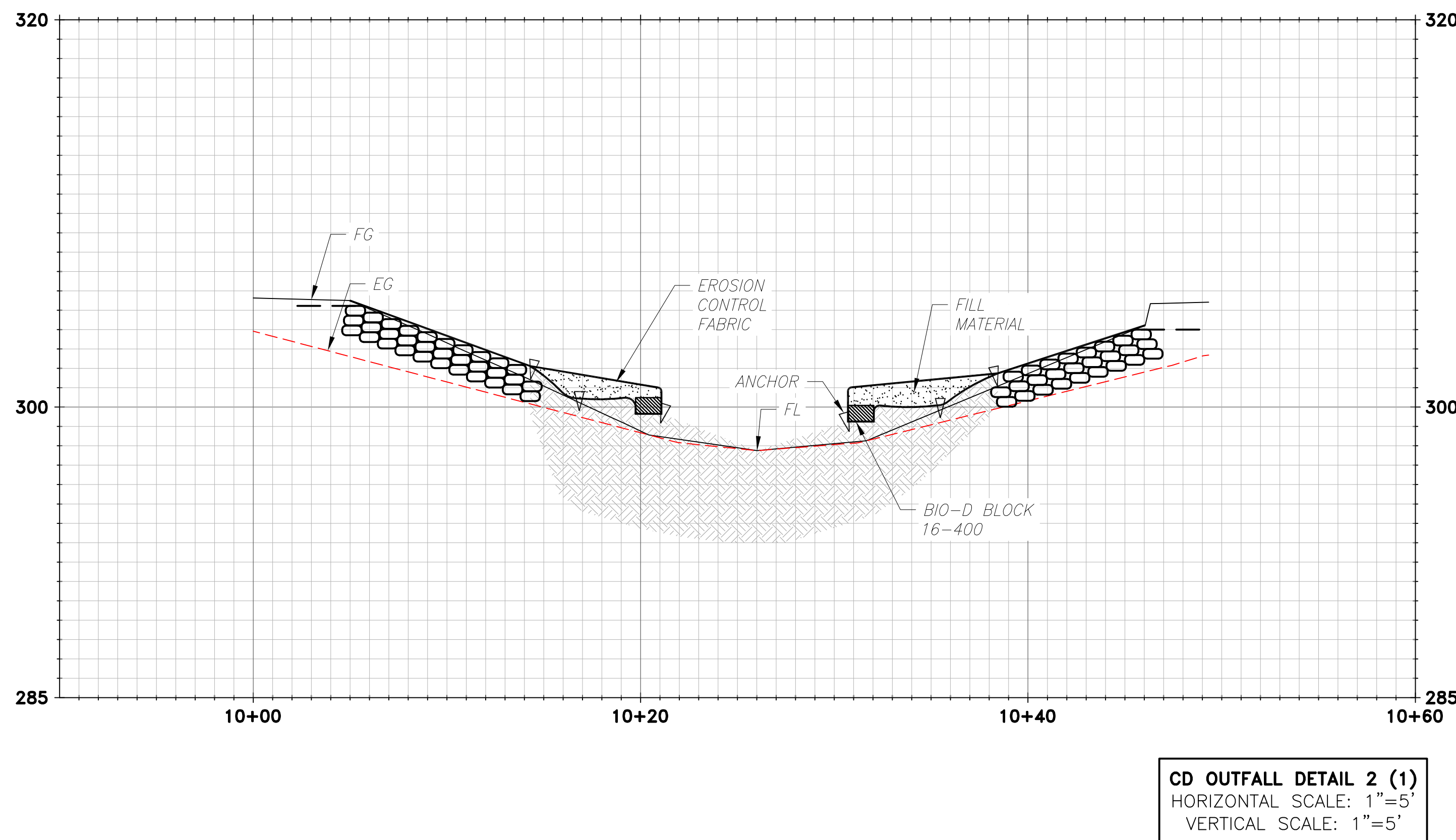
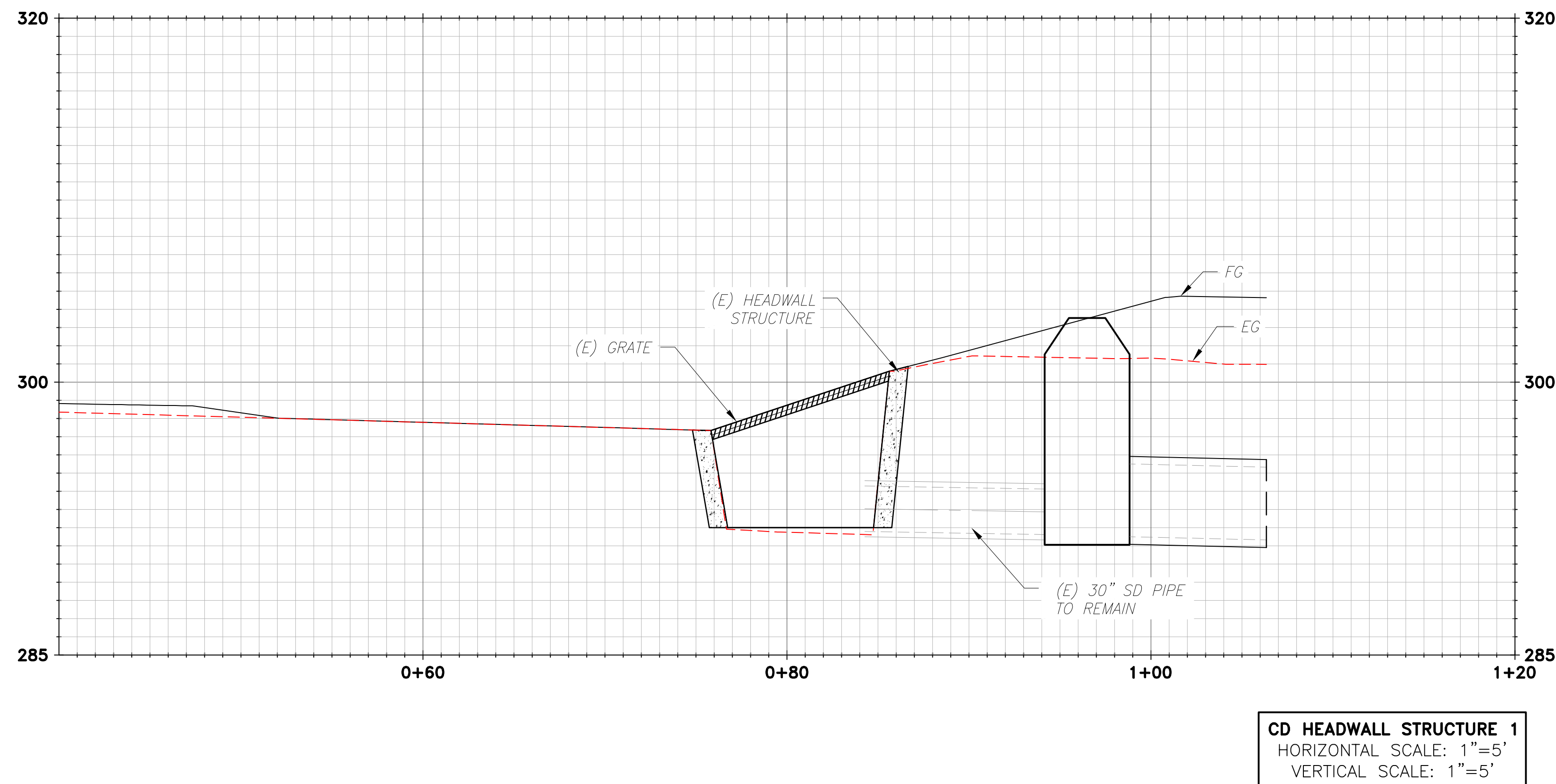
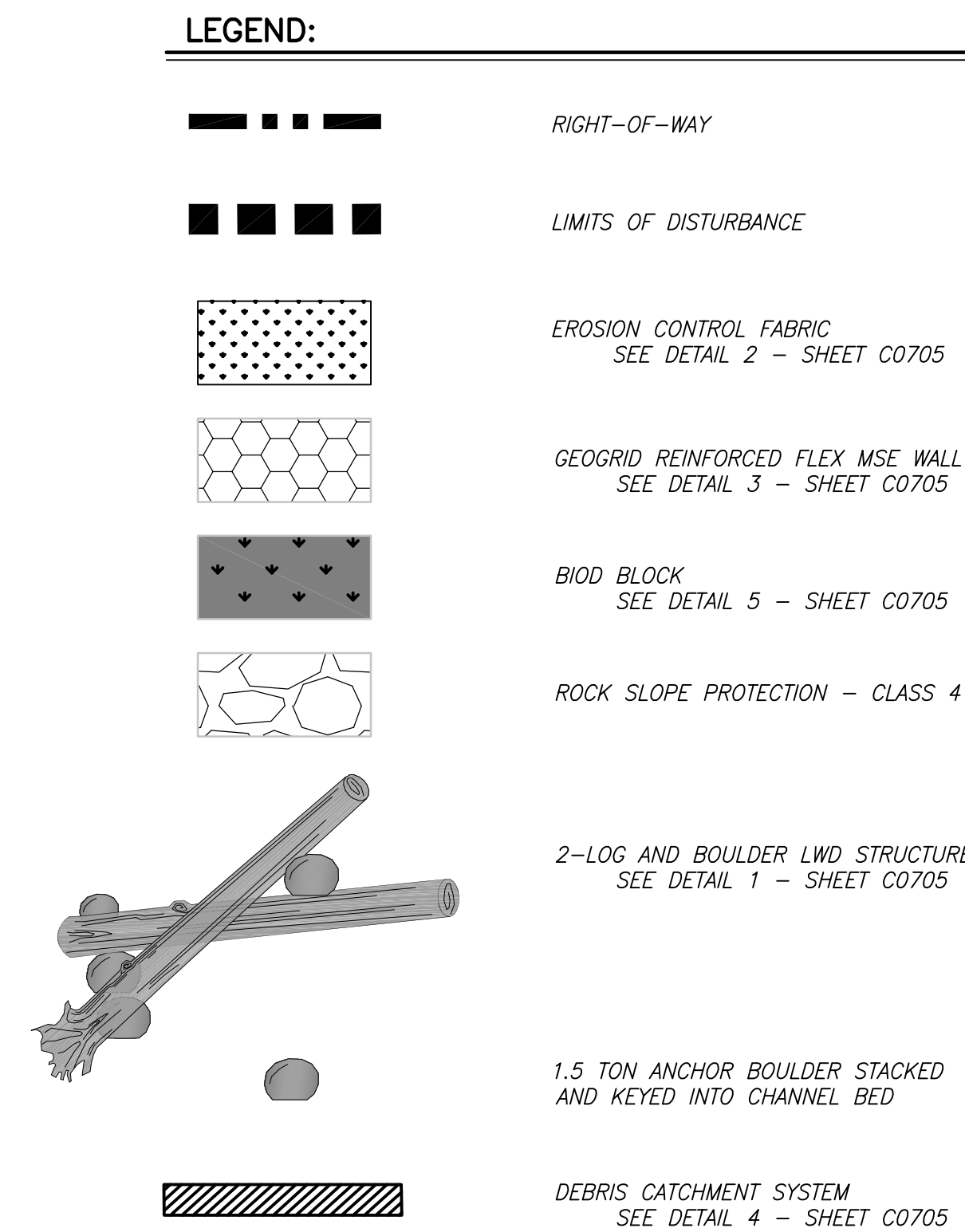
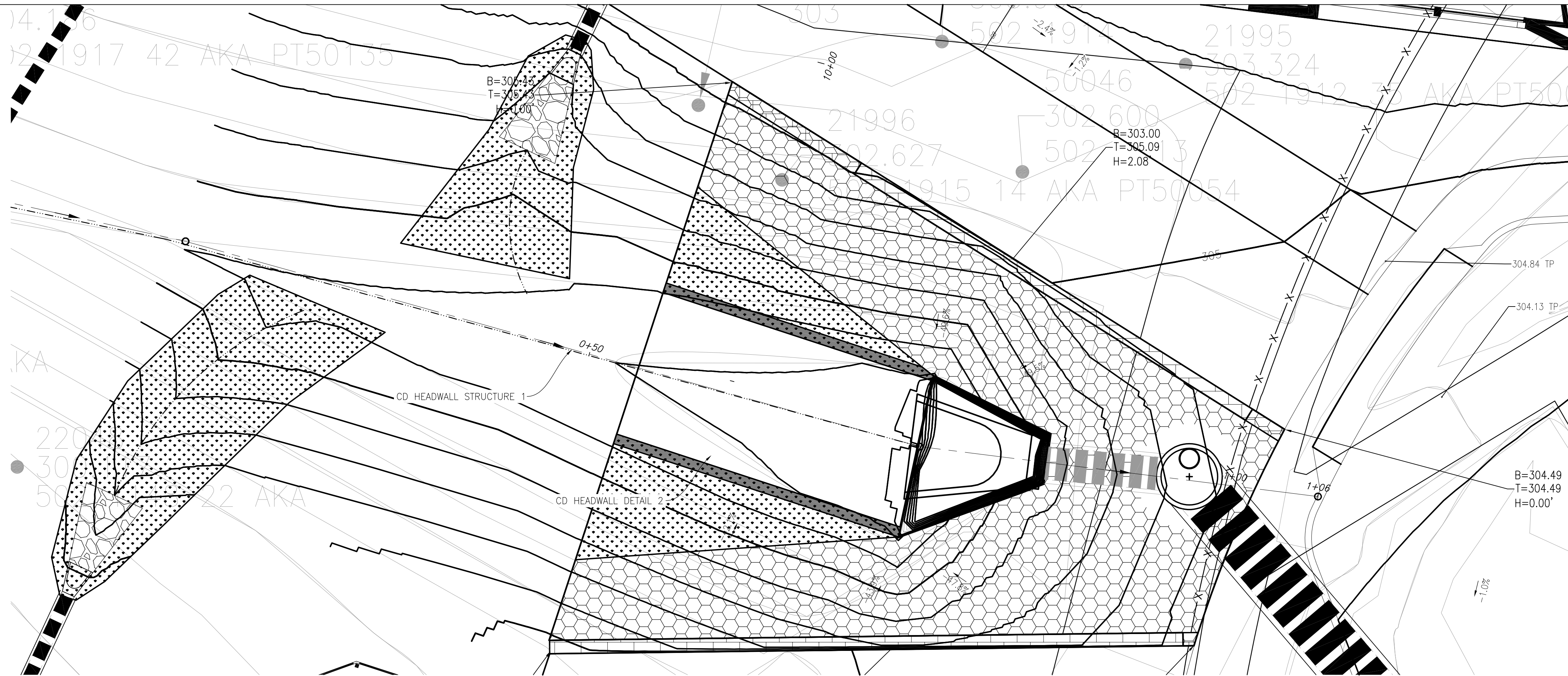
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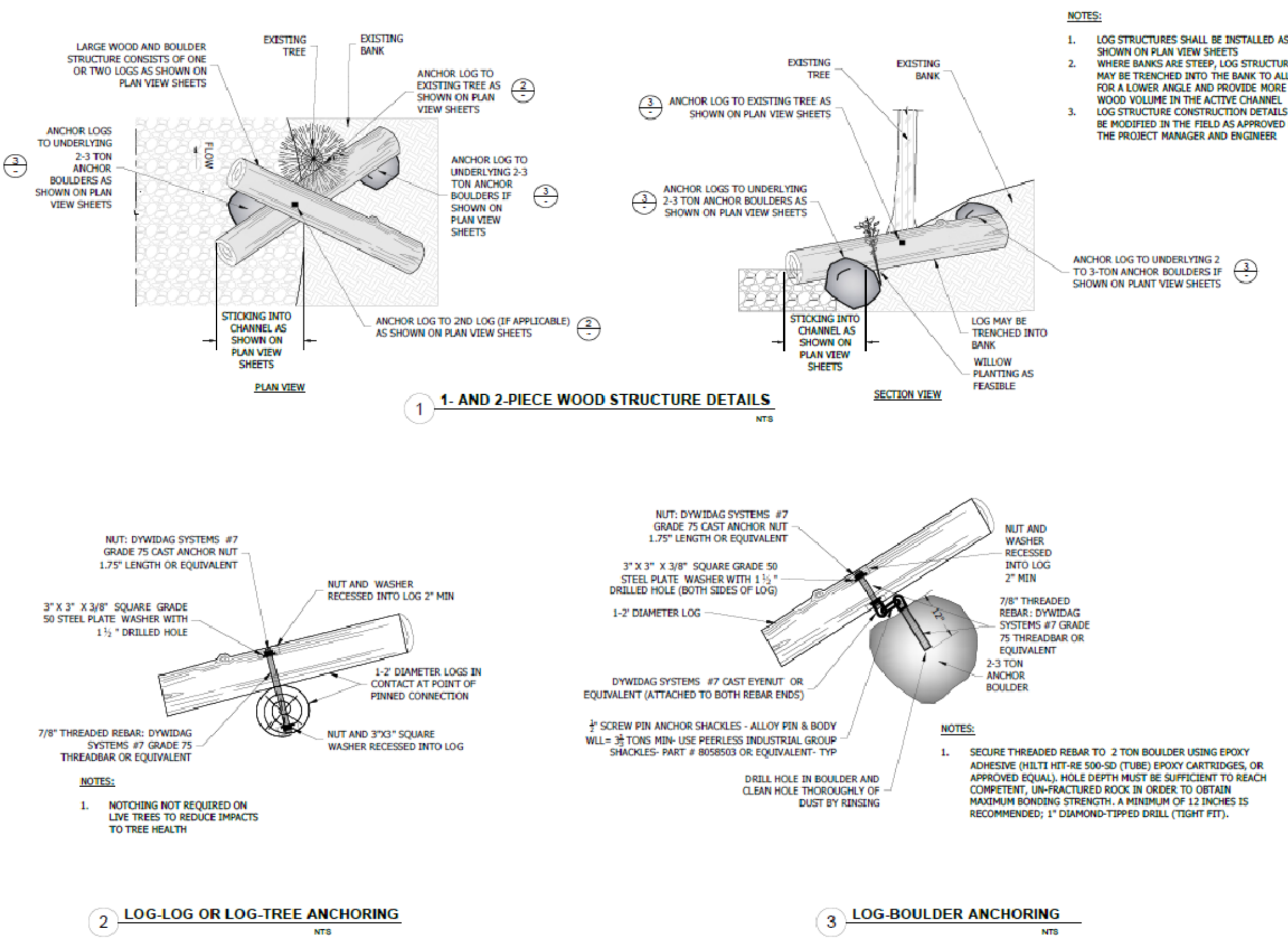


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HEADWALL 1 P&P

Project No.: 005318.00 Checked by: CHECK

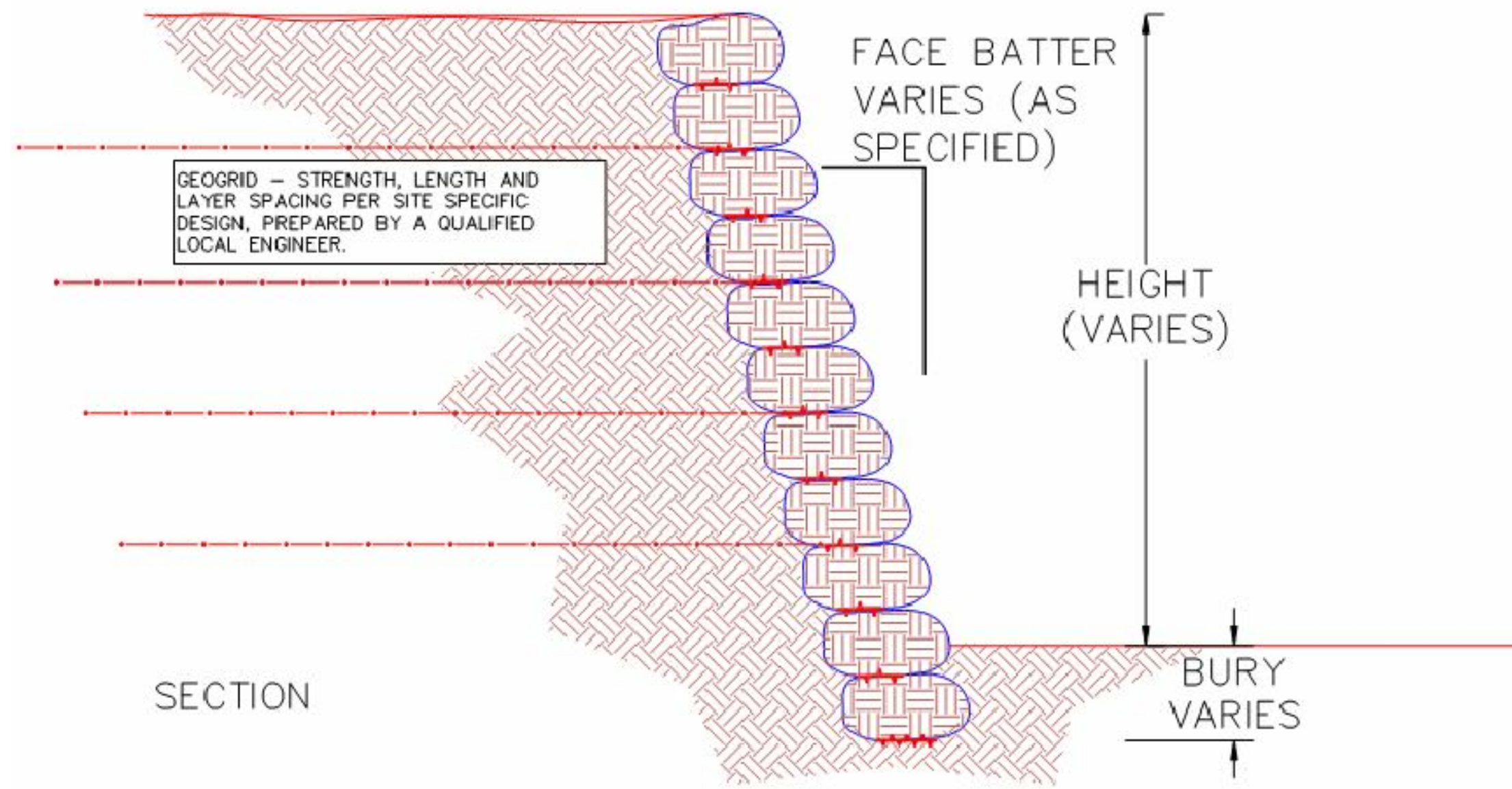
C0703





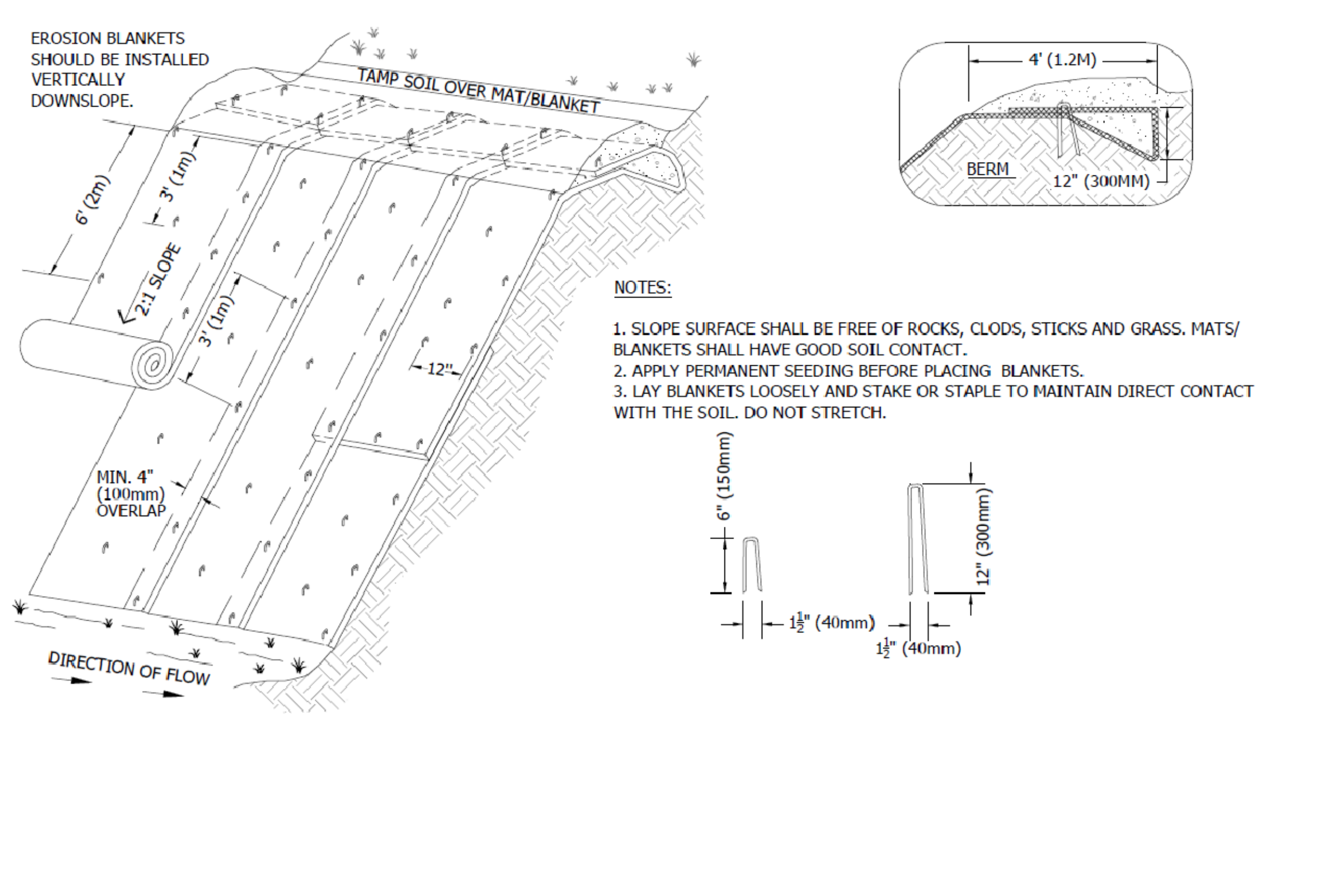
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C0705

LOG AND BOULDER ANCHORING DETAIL
AS SHOWN



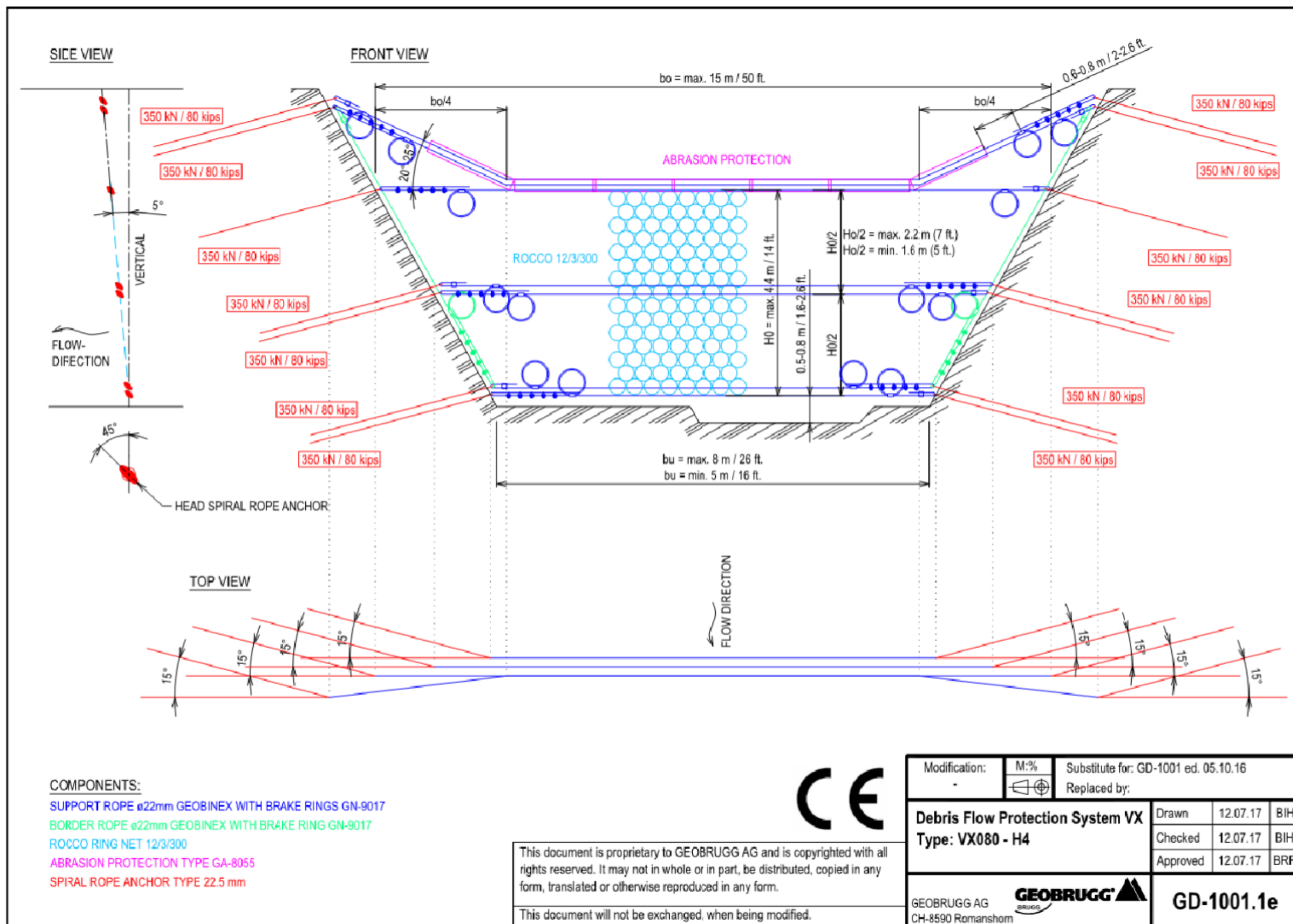
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GEOGRID REINFORCED FLEX MSE WALL
AS SHOWN



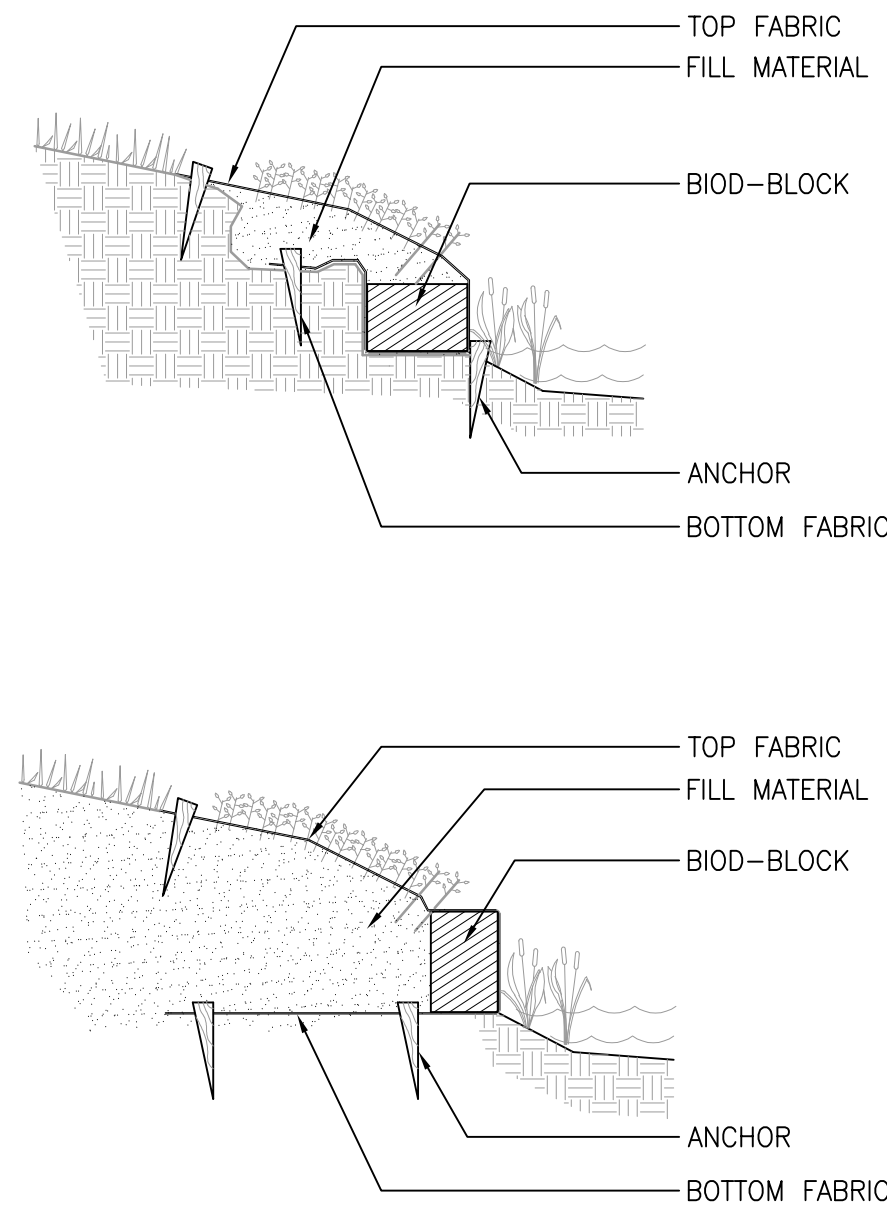
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C0705

EROSION CONTROL FABRIC DETAIL
AS SHOWN



4
C0705

TYPICAL DEBRIS FLOW PROTECTION SYSTEM
AS SHOWN



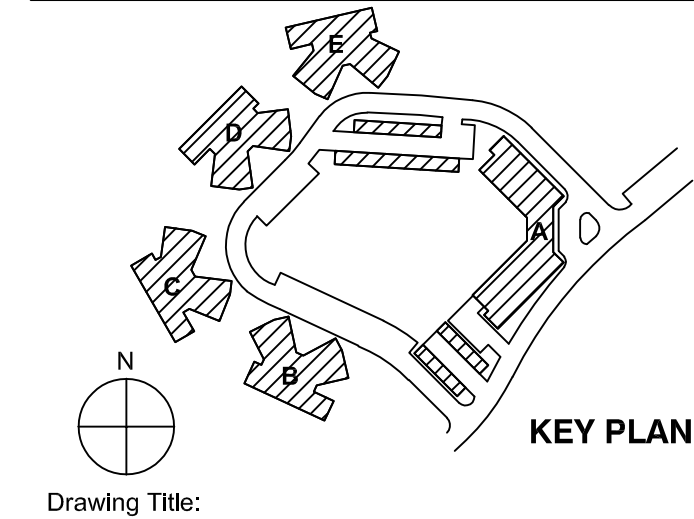
NOTES:
1. LIVE PLANTS AND CUTTINGS SHOULD BE USED IN EITHER SITUATION.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 084-011.

5
C0705

BIO-D BLOCK SYSTEM DETAIL
AS SHOWN

NOT FOR CONSTRUCTION

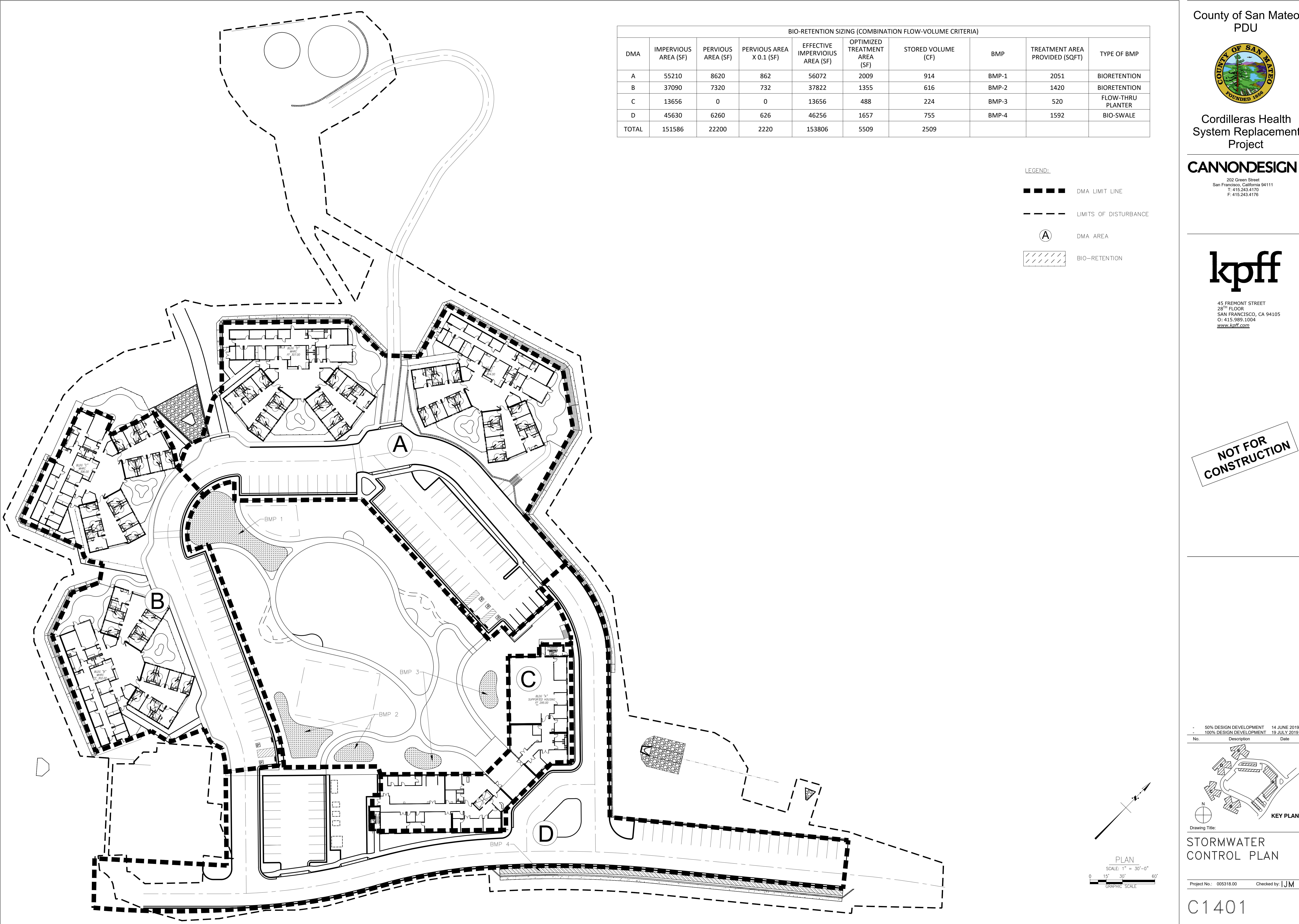
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DETAILS

Project No.:	005318.00	Checked by:	JMH
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C0705



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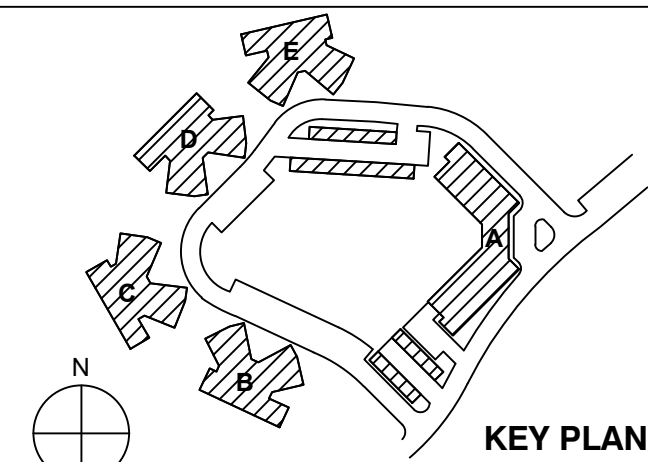
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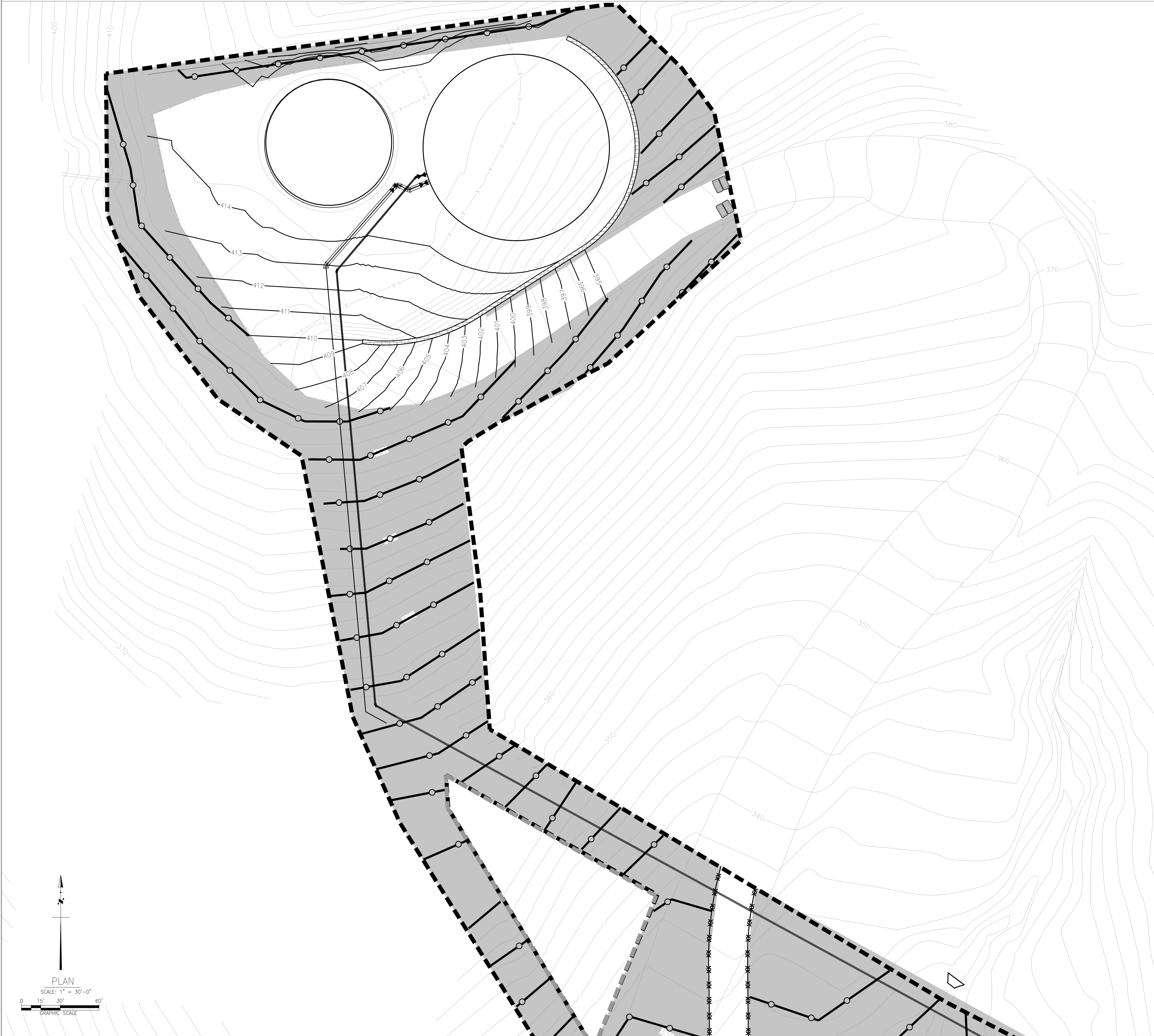


Drawing Title:

STORMWATER
CONTROL PLAN

Project No.: 005318.00 Checked by: JUM

C1401



EROSION CONTROL NOTES:

1. LEGALLY RESPONSIBLE PERSON (LRP):

NAME: _____
ADDRESS: _____
PHONE NUMBER: _____
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPERATION AND TO KEEP THE ENTIRE SITE IN COMPLIANCE WITH THE SOIL EROSION CONTROL PLAN AND THE PROJECT SPECIFIC STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
3. A "STANDBY EMERGENCY CREW" SHALL BE ALERTED BY THE PERMITTEE OR THE CONTRACTOR TO PERFORM EMERGENCY WORK DURING RAINSTORMS. THE PARTY TO BE CONTACTED IS ((TO BE FILLED IN BY CONTRACTOR)):

NAME: _____
PHONE NUMBER: _____
4. QUALIFIED SWPPP DEVELOPER (QSD):

STEVE MORELAND (QSD/P #XXXXX)
KPFF CONSULTING ENGINEERS
45 FREMONT STREET, FLOOR 28
SAN FRANCISCO, CA 94105
(415) 989-1004
5. THE RAINY SEASON IS AS DECLARED BY THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) DEPENDING ON THE REGION IN WHICH THE PROJECT IS LOCATED. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES AND ACTIONS MAY BE NECESSARY DURING THE RAINY SEASON. THE CONTRACTOR IS RESPONSIBLE FOR INCLUDING SUCH MEASURES REQUIRED PER THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA)
6. THIS PLAN IS TO BE USED FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN DIRECTED AS THE WORK PROGRESSES TO MEET "AS GRADED" CONDITIONS.
7. CONTRACTOR IS RESPONSIBLE FOR MONITORING EROSION AND SEDIMENT CONTROL MEASURES PRIOR, DURING, AND AFTER STORM EVENTS.
8. EXCEPT WHEN DIRECTED OTHERWISE, ALL DEVICES SHOWN TO BE IN PLACE AT THE END OF EACH WORKING DAY, WHEN RAIN IS FORECASTED, AND MAINTAINED.
9. TAKE REASONABLE CARE WHEN HAULING ANY EARTH, SAND, GRAVEL, STONE, DEBRIS, PAPER OR ANY OTHER SUBSTANCE OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE. SHOULD ANY BLOW, SPILL, OR TRACK OVER AND UPON SAID PUBLIC OR ADJACENT PRIVATE PROPERTY, IMMEDIATE REMEDY SHALL OCCUR.
10. DURING THE RAINY SEASON, KEEP ALL PAVED AREAS CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LOADED RUNOFF TO ANY STORM DRAINAGE SYSTEM, INCLUDING EXISTING DRAINAGE SWALES AND WATER COURSES. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR.
11. CONTRACTOR PROVIDES DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE AND LOCAL AGENCY REQUIREMENTS.
12. COORDINATE WITH SECTION "311000 SITE CLEARING" OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING DEMOLITION AND EROSION CONTROL.
13. FILLED FILTER BAGS SHALL BE STOCKPILED ON SITE, READY TO BE PLACED IN POSITION WHEN RAIN IS FORECASTED, OR WHEN THE INSPECTOR SO DIRECTS.
14. CONTRACTOR PROVIDES WATER ONSITE AND USE IT FOR DUST CONTROL DURING CONSTRUCTION.
15. INSTALL CONSTRUCTION EXIT PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION EXIT WAYS.
16. CONTRACTOR MAINTAINS STABILIZED ENTRANCE AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. ANY MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE INSPECTOR.
17. INSTALL INLET PROTECTION AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT.
18. THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN IN THE FIELD. NOTIFY THE INSPECTOR OF ANY FIELD CHANGES.
19. BEST MANAGEMENT PRACTICES (BMPs) SHOWN ARE OUTLINED IN, BUT NOT LIMITED TO, THE CONSTRUCTION BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA), 2009, OR THE LATEST REVISED EDITION, AND APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTORS).
20. MAINTENANCE IS TO BE PERFORMED PER THE CASQA BMP HANDBOOK AND AS FOLLOWS:

A. REPAIR DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION BY THE END OF EACH WORKING DAY.
B. INSPECT SEDIMENT TRAPS, BERMS, AND SWALES PERIODICALLY AND AFTER EACH STORM AND REPAIRS MADE AS NEEDED.
C. REMOVE SEDIMENT AND RESTORE SEDIMENT BARRIER TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF HALF THE SEDIMENT BARRIER HEIGHT.
D. DEPOSIT SEDIMENT THAT HAS BEEN REMOVED FROM BARRIER SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
23. CLEAN OUT INLET PROTECTION WHENEVER SEDIMENT DEPTH IS ONE HALF THE HEIGHT OF ONE FILLED FILTER BAG.
24. IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT (CGP) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES, ORDER NO. 2009-0009-DWQ (NPDES NO. CAS000002), THE EROSION CONTROL REQUIREMENTS SHALL BE ADHERED TO FOR THE CONSTRUCTION OF THIS PROJECT.
25. CONTRACTOR SHALL ENSURE THAT THE IMPLEMENTATION OF THE BMP MEASURES ARE OVERSEEN BY A STATE QUALIFIED SWPPP PRACTITIONER (QSP).
26. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) [SHALL BE [WAS]] PREPARED BY A QUALIFIED SWPPP DEVELOPER (QSD) AND [SHALL BE [WAS]] ELECTRONICALLY SUBMITTED TO THE STORMWATER MULTIPLE APPLICATION AND REPORT TRACKING SYSTEM (SMARTS).
27. THE CONTRACTOR SHALL PREPARE AND ELECTRONICALLY SUBMIT A CERTIFIED ANNUAL REPORT NO LATER THAN SEPTEMBER 1 OF EACH YEAR. THE REPORT SHALL INCLUDE THE TRAINING AND STORMWATER MONITORING AND SAMPLING INFORMATION ACCORDING TO THE SITE SPECIFIC RISK LEVEL. [THE RISK LEVEL FOR THIS SITE HAS BEEN DETERMINED TO BE LEVEL X.]
28. [PER NOTE 27 ABOVE, REFER TO THE PROJECT SWPPP FOR THE PROJECT RISK LEVEL. DISCARD NOTE 28 ABOVE IF THE RISK LEVEL IS DETERMINED TO BE LEVEL 1.] FOR SITES DETERMINED TO BE AT RISK LEVEL 1, THE CONTRACTOR SHALL ADHERE TO THE CONTROL MEASURES OUTLINED IN ATTACHMENT C OF GENERAL PERMIT, INCLUDING THOSE RELATED TO:

- GOOD SITE MANAGEMENT ("HOUSEKEEPING")
 - NON-STORMWATER RUNOFF MANAGEMENT
 - EROSION AND SEDIMENT
 - RUN-ON AND RUN-OFF
 - INSPECTION, MAINTENANCE, AND REPAIR
29. [PER NOTE 27 ABOVE, REFER TO THE PROJECT SWPPP FOR THE PROJECT RISK LEVEL. DISCARD NOTE 28 ABOVE IF THE RISK LEVEL IS DETERMINED TO BE LEVEL 2 OR 3.] FOR SITES DETERMINED TO BE AT RISK LEVEL 2 OR 3, THE CONTRACTOR SHALL ADHERE TO THE ADDITIONAL CONTROL MEASURES OUTLINED IN ATTACHMENTS D AND E OF GENERAL PERMIT, INCLUDING DEVELOPING A RAIN EVENT ACTION PLAN (REAP) AND PERFORMING WATER SAMPLING AND REPORTING FOR VISIBLE AND NON-VISIBLE POLLUTANTS.]

LEGEND:

- ---

- LIMIT OF DISTURBANCE
-
- INLET PROTECTION. SEE DETAIL 4 ON SHEET C6.1.
-
- FILTER BAGS
-
- FIBER ROLL AND SILT FENCE
-
- FIBER ROLL
-
- HYDROSEEDING AREAS

County of San Mateo
PDU



Cordilleras Health
System Replacement
Project

CANNONDESIGN

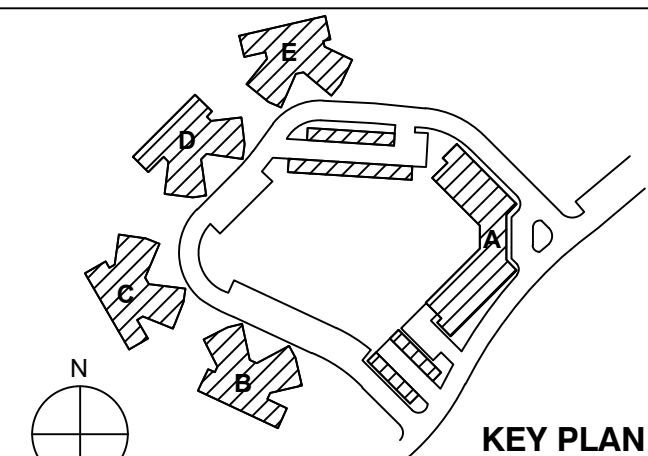
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CONSTRUCTION

-	50% DESIGN DEVELOPMENT	14 JUNE 2019
-	100% DESIGN DEVELOPMENT	19 JULY 2019
No.	Description	Date



Drawing Title:

EROSION
CONTROL
PLAN

Project No.: 005318.00 Checked by: JIA

C1301



EROSION CONTROL NOTES:

LEGALLY RESPONSIBLE PERSON (LRP):

NAME: _____
ADDRESS: _____
PHONE NUMBER: _____

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPERATION AND TO KEEP THE ENTIRE SITE IN COMPLIANCE WITH THE SOIL EROSION CONTROL PLAN AND THE PROJECT SPECIFIC STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

A "STANDBY EMERGENCY CREW" SHALL BE ALERTED BY THE PERMITTEE OR THE CONTRACTOR TO PERFORM EMERGENCY WORK DURING RAINSTORMS. THE PARTY TO BE CONTACTED IS ((TO BE FILLED IN BY CONTRACTOR):

NAME: _____
PHONE NUMBER: _____

QUALIFIED SWPPP DEVELOPER (OSD):

STEVE MORELAND (OSD/P #XXXXX)
KPFF CONSULTING ENGINEERS
45 FREMONT STREET, FLOOR 28
SAN FRANCISCO, CA 94105
(415) 989-1004

THE RAINY SEASON IS AS DECLARED BY THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) DEPENDENT ON THE REGION IN WHICH THE PROJECT IS LOCATED. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES AND ACTIONS MAY BE NECESSARY DURING THE RAINY SEASON. THE CONTRACTOR IS RESPONSIBLE FOR INCLUDING SUCH MEASURES REQUIRED PER THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA)

THIS PLAN IS TO BE USED FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN DIRECTED AS THE WORK PROGRESSES TO MEET "AS GRADED" CONDITIONS.

CONTRACTOR IS RESPONSIBLE FOR MONITORING EROSION AND SEDIMENT CONTROL MEASURES PRIOR, DURING, AND AFTER STORM EVENTS.

EXCEPT WHEN DIRECTED OTHERWISE, ALL DEVICES SHOWN TO BE IN PLACE AT THE END OF EACH WORKING DAY, WHEN RAIN IS FORECASTED, AND MAINTAINED.

TAKE REASONABLE CARE WHEN HAULING ANY EARTH, SAND, GRAVEL, STONE, DEBRIS, PAPER OR ANY OTHER SUBSTANCE OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE. SHOULD ANY BLOW, SPILL, OR TRACK OVER AND UPON SAID PUBLIC OR ADJACENT PRIVATE PROPERTY, IMMEDIATE REMEDY SHALL OCCUR.

DURING THE RAINY SEASON, KEEP ALL PAVED AREAS CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LOADED RUNOFF TO ANY STORM DRAINAGE SYSTEM, INCLUDING EXISTING DRAINAGE SWALES AND WATER COURSES. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR.

CONTRACTOR PROVIDES DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE AND LOCAL AGENCY REQUIREMENTS.

COORDINATE WITH SECTION "311000 SITE CLEARING" OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING DEMOLITION AND EROSION CONTROL.

FILLED FILTER BAGS SHALL BE STOCKPILED ON SITE, READY TO BE PLACED IN POSITION WHEN RAIN IS FORECASTED, OR WHEN THE INSPECTOR SO DIRECTS.

CONTRACTOR PROVIDES WATER ONSITE AND USE IT FOR DUST CONTROL DURING CONSTRUCTION.

INSTALL CONSTRUCTION EXIT PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION EXIT WAYS.

CONTRACTOR MAINTAINS STABILIZED ENTRANCE AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. ANY MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE INSPECTOR.

INSTALL INLET PROTECTION AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT.

THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN IN THE FIELD. NOTIFY THE INSPECTOR OF ANY FIELD CHANGES.

BEST MANAGEMENT PRACTICES (BMPs) SHOWN ARE OUTLINED IN, BUT NOT LIMITED TO, THE CONSTRUCTION BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA), 2009, OR THE LATEST REVISED EDITION, AND APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTORS).

MAINTENANCE IS TO BE PERFORMED PER THE CASQA BMP HANDBOOK AND AS FOLLOWS:

A. REPAIR DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION BY THE END OF EACH WORKING DAY.

B. INSPECT SEDIMENT TRAPS, BERMS, AND SWALES PERIODICALLY AND AFTER EACH STORM AND REPAIRS MADE AS NEEDED.

C. REMOVE SEDIMENT AND RESTORE SEDIMENT BARRIER TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF HALF THE SEDIMENT BARRIER HEIGHT.

D. DEPOSIT SEDIMENT THAT HAS BEEN REMOVED FROM BARRIER SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

CLEAN OUT INLET PROTECTION WHENEVER SEDIMENT DEPTH IS ONE HALF THE HEIGHT OF ONE FILLED FILTER BAG.

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LEGEND:

LIMIT OF DISTURBANCE

INLET PROTECTION. SEE DETAIL 4 ON SHEET C6.1.

FILTER BAGS

FIBER ROLL AND SILT FENCE

FIBER ROLL

HYDROSEEDED AREAS

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PLAN


SCALE: 1" = 30'-0"

15' 30' 60'

GRAPHIC SCALE

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County of San Mateo
PDU



FOUNDED 1850

Cordilleras Health
System Replacement
Project

CANNONDESIGN

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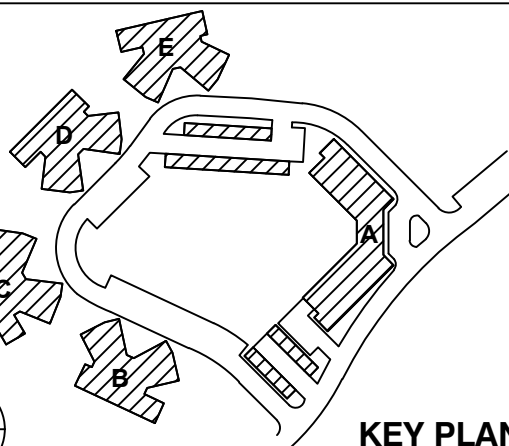
50% DESIGN DEVELOPMENT

14 JUNE 2019

100% DESIGN DEVELOPMENT

19 JULY 2019

No.	Description	Date



KEY PLAN

Drawing Title:

EROSION CONTROL PLAN

Project No.: 005318.00

Checked by: JIA

C1302

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V:\2018\1800050 Cordilleras Mental Health Facility\geutocad\CDEROSION.dwg, 7/19/2019 4:12:21 PM



EROSION CONTROL NOTES:

- LEGALLY RESPONSIBLE PERSON (LRP):
NAME: _____
ADDRESS: _____
PHONE NUMBER: _____
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NAME: _____
PHONE NUMBER: _____
- QUALIFIED SWPPP DEVELOPER (OSD):
STEVE MORELAND (OSD/P #XXXXX)
KPFF CONSULTING ENGINEERS
45 FREMONT STREET, FLOOR 28
SAN FRANCISCO, CA 94103
(415) 989-1004
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LEGEND:

- LIMIT OF DISTURBANCE
- INLET PROTECTION. SEE DETAIL 4 ON SHEET C6.1.
- FILTER BAGS
- FIBER ROLL AND SILT FENCE
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County of San Mateo
PDU



Cordilleras Health
System Replacement
Project

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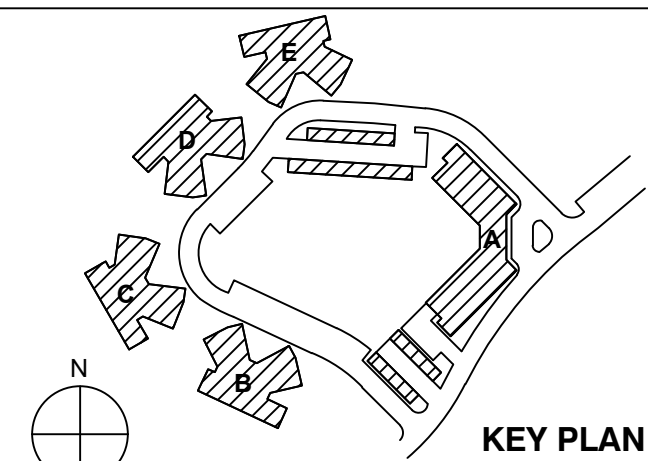
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CONSTRUCTION

-	50% DESIGN DEVELOPMENT	14 JUNE 2019
-	100% DESIGN DEVELOPMENT	19 JULY 2019
No.	Description	Date



Drawing Title:

EROSION
CONTROL PLAN

Project No.: 005318.00 Checked by: JIA

C1303

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EROSION CONTROL NOTES:

1. LEGALLY RESPONSIBLE PERSON (LRP):

NAME: _____
ADDRESS: _____
PHONE NUMBER: _____

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPERATION AND TO KEEP THE ENTIRE SITE IN COMPLIANCE WITH THE SOIL EROSION CONTROL PLAN AND THE PROJECT SPECIFIC STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

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NAME: _____
PHONE NUMBER: _____

4. QUALIFIED SWPPP DEVELOPER (OSD):

STEVE MORELAND (OSD/P #XXXXXX)
KPFF CONSULTING ENGINEERS
45 FREMONT STREET, FLOOR 28
SAN FRANCISCO, CA 94105
(415) 989-1004

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D. DEPOSIT SEDIMENT THAT HAS BEEN REMOVED FROM BARRIER SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

23. CLEAN OUT INLET PROTECTION WHENEVER SEDIMENT DEPTH IS ONE HALF THE HEIGHT OF ONE FILLED FILTER BAG.

24. IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT (CGP) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES, ORDER NO. 2009-0009-DWQ (NPDES NO. CAS000002), THE EROSION CONTROL REQUIREMENTS SHALL BE ADHERED TO FOR THE CONSTRUCTION OF THIS PROJECT.

25. CONTRACTOR SHALL ENSURE THAT THE IMPLEMENTATION OF THE BMP MEASURES ARE OVERSEEN BY A STATE QUALIFIED SWPPP PRACTITIONER (OSP).

26. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) [SHALL BE [WAS] PREPARED BY A QUALIFIED SWPPP DEVELOPER (OSD) AND [SHALL BE [WAS] ELECTRONICALLY SUBMITTED TO THE STORMWATER MULTIPLE APPLICATION AND REPORT TRACKING SYSTEM (SMARTS).

27. THE CONTRACTOR SHALL PREPARE AND ELECTRONICALLY SUBMIT A CERTIFIED ANNUAL REPORT NO LATER THAN SEPTEMBER 1 OF EACH YEAR. THE REPORT SHALL INCLUDE THE TRAINING AND STORMWATER MONITORING AND SAMPLING INFORMATION ACCORDING TO THE SITE SPECIFIC RISK LEVEL. [THE RISK LEVEL FOR THIS SITE HAS BEEN DETERMINED TO BE LEVEL X.]

28. [PER NOTE 27 ABOVE, REFER TO THE PROJECT SWPPP FOR THE PROJECT RISK LEVEL. DISCARD NOTE 29 BELOW IF THE RISK LEVEL IS DETERMINED TO BE LEVEL 1.] FOR SITES DETERMINED TO BE AT RISK LEVEL 1, THE CONTRACTOR SHALL ADHERE TO THE CONTROL MEASURES OUTLINED IN ATTACHMENT C OF GENERAL PERMIT, INCLUDING THOSE RELATED TO:

• GOOD SITE MANAGEMENT ("HOUSEKEEPING")

• NON-STORMWATER RUNOFF MANAGEMENT

• EROSION AND SEDIMENT

• RUN-ON AND RUN-OFF

• INSPECTION, MAINTENANCE, AND REPAIR

29. [PER NOTE 27 ABOVE, REFER TO THE PROJECT SWPPP FOR THE PROJECT RISK LEVEL. DISCARD NOTE 28 ABOVE IF THE RISK LEVEL IS DETERMINED TO BE LEVEL 2 OR 3.] FOR SITES DETERMINED TO BE AT RISK LEVEL 2 OR 3, THE CONTRACTOR SHALL ADHERE TO THE ADDITIONAL CONTROL MEASURES OUTLINED IN ATTACHMENTS D AND E OF GENERAL PERMIT, INCLUDING DEVELOPING A RAIN EVENT ACTION PLAN (REAP) AND PERFORMING WATER SAMPLING AND REPORTING FOR VISIBLE AND NON-VISIBLE POLLUTANTS.]

LEGEND:

■ ■ ■ ■ ■ LIMIT OF DISTURBANCE

⊘ INLET PROTECTION. SEE DETAIL 4 ON SHEET C6.1.

⊞ FILTER BAGS

— — — — — FIBER ROLL AND SILT FENCE

— — — — — FIBER ROLL

■ ■ ■ ■ ■ HYDROSEEDED AREAS

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50% DESIGN DEVELOPMENT14 JUNE 2019

100% DESIGN DEVELOPMENT19 JULY 2019

No.	Description	Date



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KEY PLAN

Drawing Title:

EROSION
CONTROL PLAN

Project No.: 005318.00

Checked by: JIA

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EROSION CONTROL NOTES:

1. LEGALLY RESPONSIBLE PERSON (LRP):

NAME: _____
ADDRESS: _____
PHONE NUMBER: _____

2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPERATION AND TO KEEP THE ENTIRE SITE IN COMPLIANCE WITH THE SOIL EROSION CONTROL PLAN AND THE PROJECT SPECIFIC STORMWATER POLLUTION PREVENTION PLAN (SWPPP).

3. A "STANDBY EMERGENCY CREW" SHALL BE ALERTED BY THE PERMITTEE OR THE CONTRACTOR TO PERFORM EMERGENCY WORK DURING RAINSTORMS. THE PARTY TO BE CONTACTED IS ((TO BE FILLED IN BY CONTRACTOR):

NAME: _____
PHONE NUMBER: _____

4. QUALIFIED SWPPP DEVELOPER (OSD):

STEVE MORELAND (OSD/P #XXXXX)
KPFF CONSULTING ENGINEERS
45 FREMONT STREET, FLOOR 28
SAN FRANCISCO, CA 94105
(415) 989-1004

5. THE RAINY SEASON IS AS DECLARED BY THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) DEPENDING ON THE REGION IN WHICH THE PROJECT IS LOCATED. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES AND ACTIONS MAY BE NECESSARY DURING THE RAINY SEASON. THE CONTRACTOR IS RESPONSIBLE FOR INCLUDING SUCH MEASURES REQUIRED PER THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA)

6. THIS PLAN IS TO BE USED FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN DIRECTED AS THE WORK PROGRESSES TO MEET "AS GRADED" CONDITIONS.

7. CONTRACTOR IS RESPONSIBLE FOR MONITORING EROSION AND SEDIMENT CONTROL MEASURES PRIOR, DURING, AND AFTER STORM EVENTS.

8. EXCEPT WHEN DIRECTED OTHERWISE, ALL DEVICES SHOWN TO BE IN PLACE AT THE END OF EACH WORKING DAY, WHEN RAIN IS FORECASTED, AND MAINTAINED.

9. TAKE REASONABLE CARE WHEN HAULING ANY EARTH, SAND, GRAVEL, STONE, DEBRIS, PAPER OR ANY OTHER SUBSTANCE OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE. SHOULD ANY BLOW, SPILL, OR TRACK OVER AND UPON SAID PUBLIC OR ADJACENT PRIVATE PROPERTY, IMMEDIATE REMEDY SHALL OCCUR.

10. DURING THE RAINY SEASON, KEEP ALL PAVED AREAS CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LOADING RUNOFF TO ANY STORM DRAINAGE SYSTEM, INCLUDING EXISTING DRAINAGE SWALES AND WATER COURSES. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR.

11. CONTRACTOR PROVIDES DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE AND LOCAL AGENCY REQUIREMENTS.

12. COORDINATE WITH SECTION "311000 SITE CLEARING" OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING DEMOLITION AND EROSION CONTROL.

13. FILLED FILTER BAGS SHALL BE STOCKPILED ON SITE, READY TO BE PLACED IN POSITION WHEN RAIN IS FORECASTED, OR WHEN THE INSPECTOR SO DIRECTS.

14. CONTRACTOR PROVIDES WATER ONSITE AND USE IT FOR DUST CONTROL DURING CONSTRUCTION.

15. INSTALL CONSTRUCTION EXIT PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION EXIT WAYS.

16. CONTRACTOR MAINTAINS STABILIZED ENTRANCE AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. ANY MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE INSPECTOR.

17. INSTALL INLET PROTECTION AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT.

18. THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN IN THE FIELD. NOTIFY THE INSPECTOR OF ANY FIELD CHANGES.

19. BEST MANAGEMENT PRACTICES (BMPs) SHOWN ARE OUTLINED IN, BUT NOT LIMITED TO, THE CONSTRUCTION BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA), 2009, OR THE LATEST REVISED EDITION, AND APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTORS).

20. MAINTENANCE IS TO BE PERFORMED PER THE CASQA BMP HANDBOOK AND AS FOLLOWS:
A. REPAIR DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION BY THE END OF EACH WORKING DAY.
B. INSPECT SEDIMENT TRAPS, BERM, AND SWALES PERIODICALLY AND AFTER EACH STORM AND REPAIRS MADE AS NEEDED.
C. REMOVE SEDIMENT AND RESTORE SEDIMENT BARRIER TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF HALF THE SEDIMENT BARRIER HEIGHT.
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LEGEND:

LIMIT OF DISTURBANCE

INLET PROTECTION. SEE DETAIL 4 ON SHEET C6.1.


FILTER BAGS

FIBER ROLL AND SILT FENCE

FIBER ROLL

HYDROSEEDED AREAS

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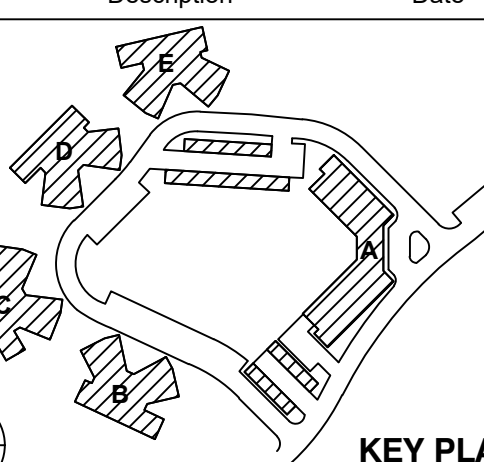
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50% DESIGN DEVELOPMENT 14 JUNE 2019

100% DESIGN DEVELOPMENT 19 JULY 2019

No.	Description	Date


KEY PLAN

Drawing Title:

EROSION CONTROL PLAN

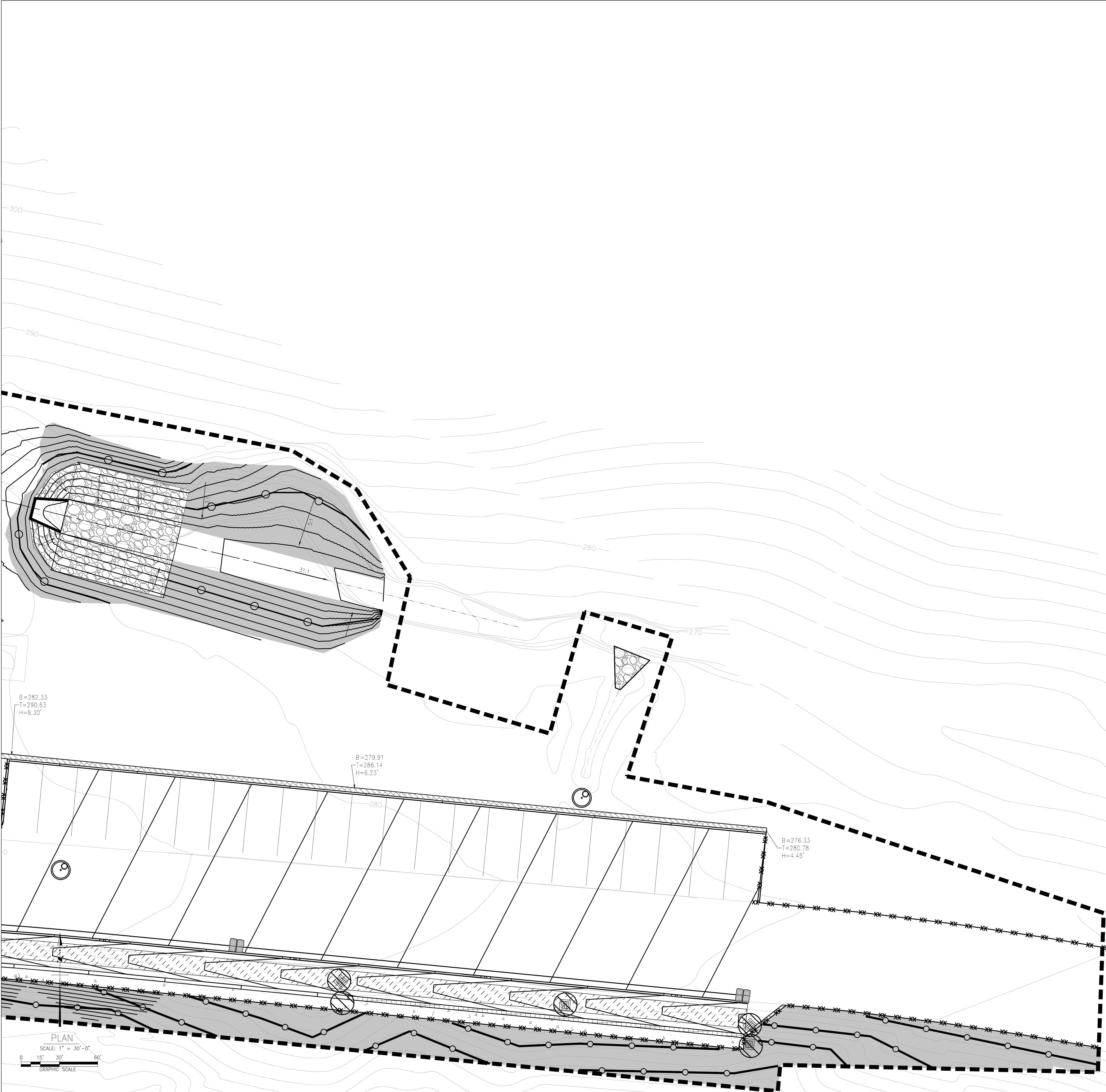
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EROSION CONTROL NOTES:

- LEGALLY RESPONSIBLE PERSON (LRP):
NAME: _____
ADDRESS: _____
PHONE NUMBER: _____
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NAME: _____
PHONE NUMBER: _____
- QUALIFIED SWPPP DEVELOPER (QSD):
STEVE MORELAND (QSD/P #XXXXX)
KPFF CONSULTING ENGINEERS
45 FREMONT STREET, FLOOR 28
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LEGEND:

- LIMIT OF DISTURBANCE
- INLET PROTECTION. SEE DETAIL 4 ON SHEET C6.1.
- FILTER BAGS
- FIBER ROLL AND SILT FENCE
- FIBER ROLL
- HYDROSEEDING AREAS

County of San Mateo
PDU



Cordilleras Health
System Replacement
Project

CANNONDESIGN

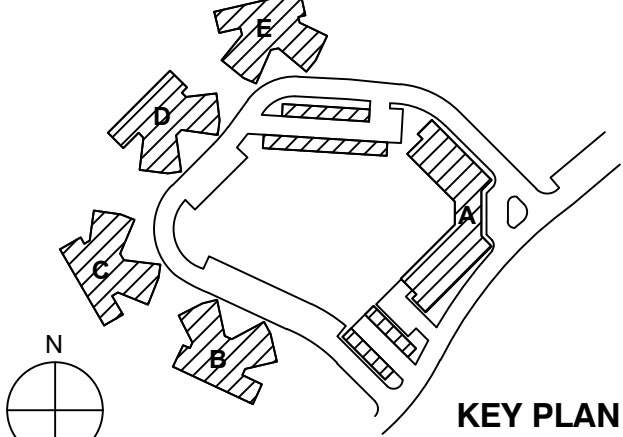
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Drawing Title:

EROSION
CONTROL
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Project No.: 005318.00

Checked by: JIA

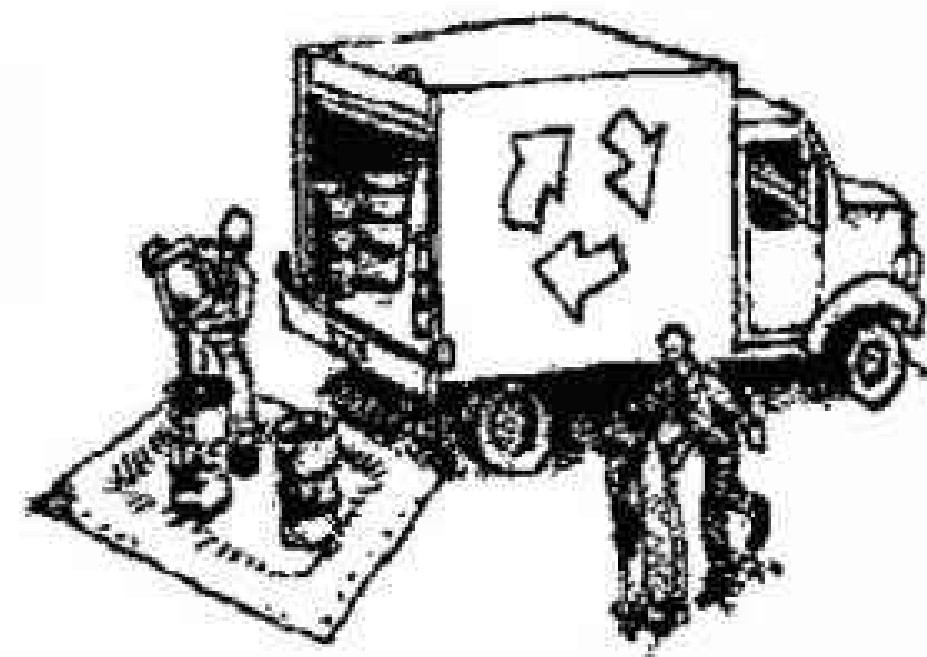
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Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

Materials & Waste Management



Non-Hazardous Materials

- ❑ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- ❑ Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

- ❑ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- ❑ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- ❑ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ❑ Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- ❑ Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- ❑ Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- ❑ Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- ❑ Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- ❑ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- ❑ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ❑ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

Equipment Management & Spill Control



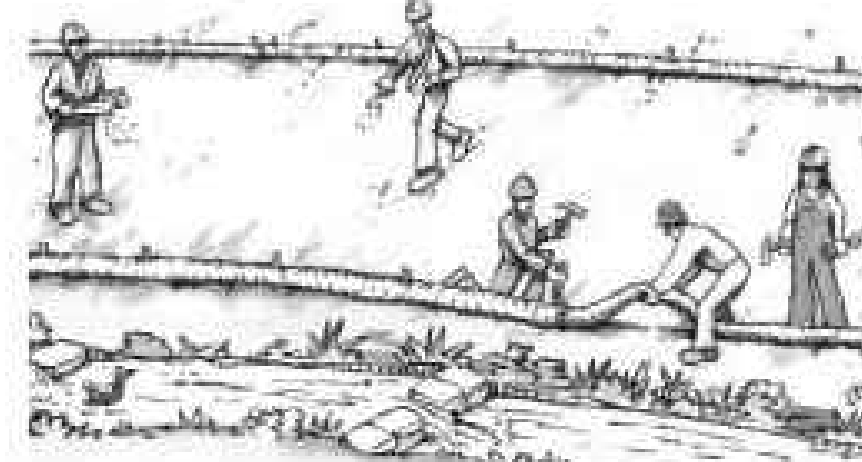
Maintenance and Parking

- ❑ Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- ❑ Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- ❑ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- ❑ If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- ❑ Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment.

Spill Prevention and Control

- ❑ Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- ❑ Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- ❑ Clean up spills or leaks immediately and dispose of cleanup materials properly.
- ❑ Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- ❑ Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- ❑ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ❑ Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earthmoving



- ❑ Schedule grading and excavation work during dry weather.
- ❑ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ❑ Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.
- ❑ Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins, gravel bags, berms, etc.
- ❑ Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

Contaminated Soils

- ❑ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
 - Unusual soil conditions, discoloration, or odor.
 - Abandoned underground tanks.
 - Abandoned wells
 - Buried barrels, debris, or trash.

Paving/Asphalt Work



- ❑ Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- ❑ Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- ❑ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- ❑ Do not use water to wash down fresh asphalt concrete pavement.

Sawcutting & Asphalt/Concrete Removal

- ❑ Protect nearby storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- ❑ Shovel, absorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ❑ If sawcut slurry enters a catch basin, clean it up immediately.

Concrete, Grout & Mortar Application



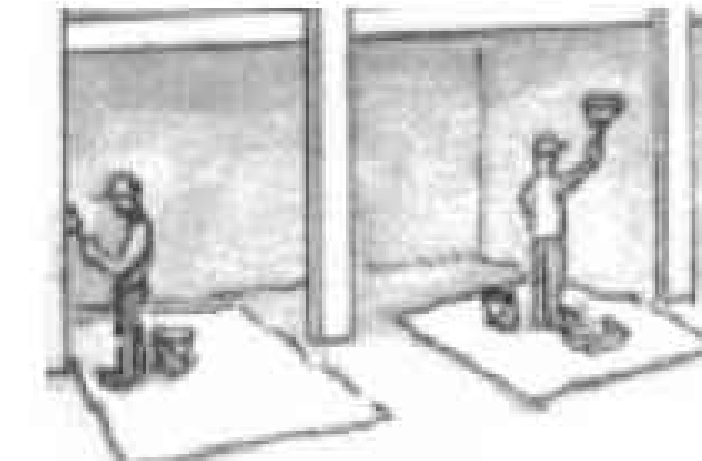
- ❑ Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.
- ❑ Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and in a manner that will prevent leaching into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- ❑ When washing exposed aggregate, prevent washwater from entering storm drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or drain onto a bermed surface to be pumped and disposed of properly.

Landscaping



- ❑ Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- ❑ Stack bagged material on pallets and under cover.
- ❑ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

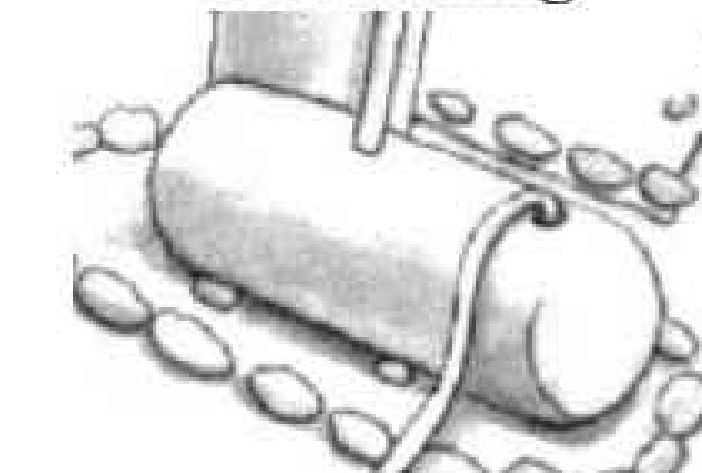
Painting & Paint Removal



Painting Cleanup and Removal

- ❑ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- ❑ For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
- ❑ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- ❑ Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- ❑ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a state-certified contractor.

Dewatering



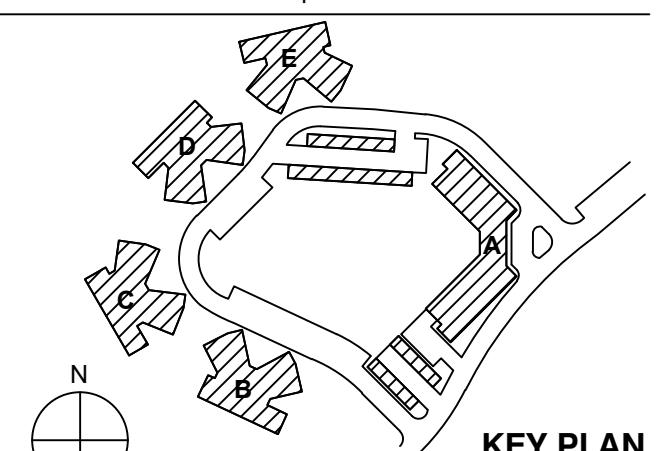
- ❑ Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant.
- ❑ Divert run-on water from offsite away from all disturbed areas.
- ❑ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ❑ In areas of known or suspected contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.

Storm drain polluters may be liable for fines of up to \$10,000 per day!



**NOT FOR
CONSTRUCTION**

No.	Description	Date
-	50% DESIGN DEVELOPMENT	14 JUNE 2019
-	100% DESIGN DEVELOPMENT	19 JULY 2019



Drawing Title:

**EROSION
CONTROL
BMPS**

Project No.: 005318.00 Checked by: JMH

C1308



LEGEND

—300— PROPOSED CONTOUR (FT)

- - -300- - EXISTING CONTOUR (FT)

County of San Mateo
PDU



Cordilleras Health
System Replacement
Project

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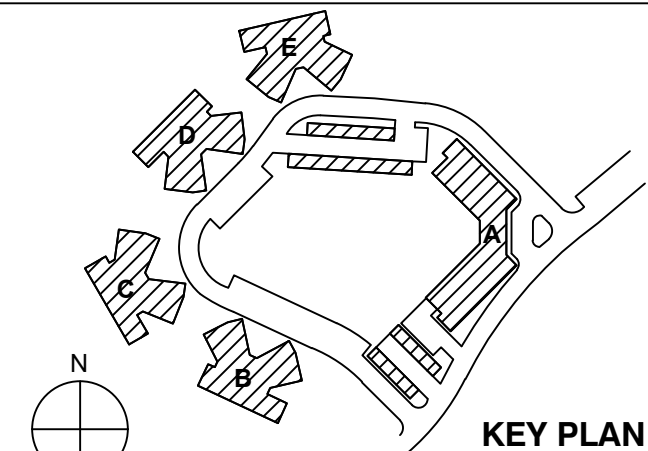
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-	50% DESIGN DEVELOPMENT	14 JUNE 2019
-	100% DESIGN DEVELOPMENT	19 JULY 2019
No.	Description	Date



Drawing Title:

GRADING PLAN

Project No.: 005318.00 Checked by: IJM

C0301

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PLAN
SCALE: 1" = 10'-0"
0 5' 10' 20'
GRAPHIC SCALE



LEGEND

— 300 — PROPOSED CONTOUR (FT)

— 300 — EXISTING CONTOUR (FT)

County of San Mateo
PDU



Cordilleras Health
System Replacement
Project

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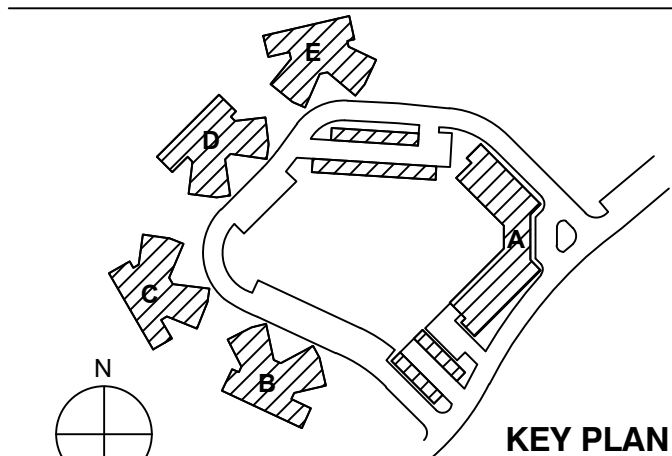
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-	50% DESIGN DEVELOPMENT	14 JUNE 2019
-	100% DESIGN DEVELOPMENT	19 JULY 2019
No.	Description	Date



Drawing Title:

GRADING PLAN

Project No.: 005318.00 Checked by: IJM

C0302

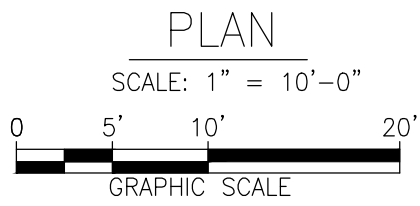
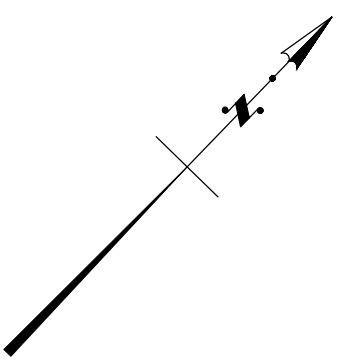
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LEGEND

	300	PROPOSED CONTOUR (FT)
	300	EXISTING CONTOUR (FT)



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County of San Mateo
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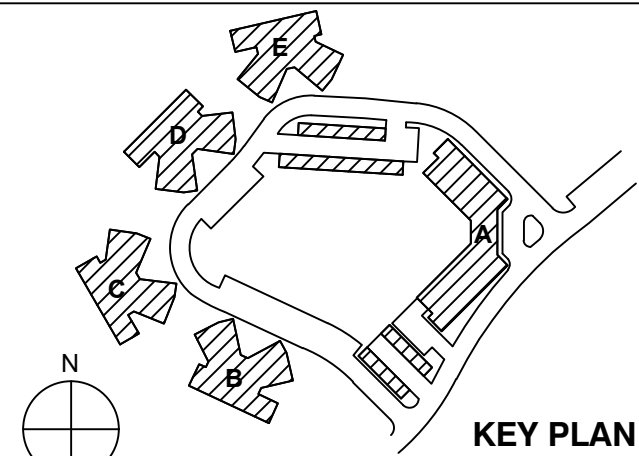
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No.	Description	Date



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	300	PROPOSED CONTOUR (FT)
	300	EXISTING CONTOUR (FT)

PLAN
SCALE: 1" = 10'-0"

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Cordilleras Health
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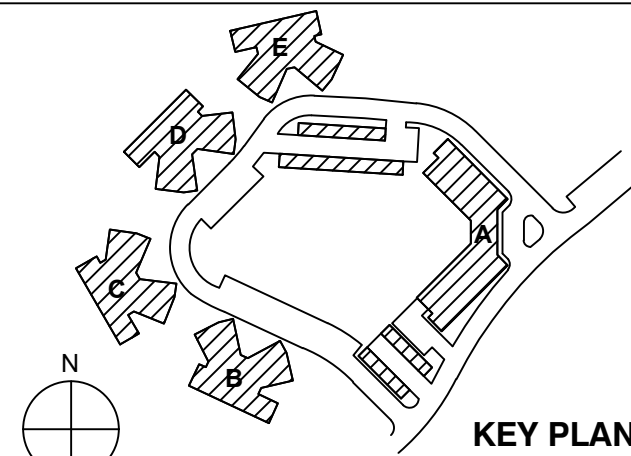
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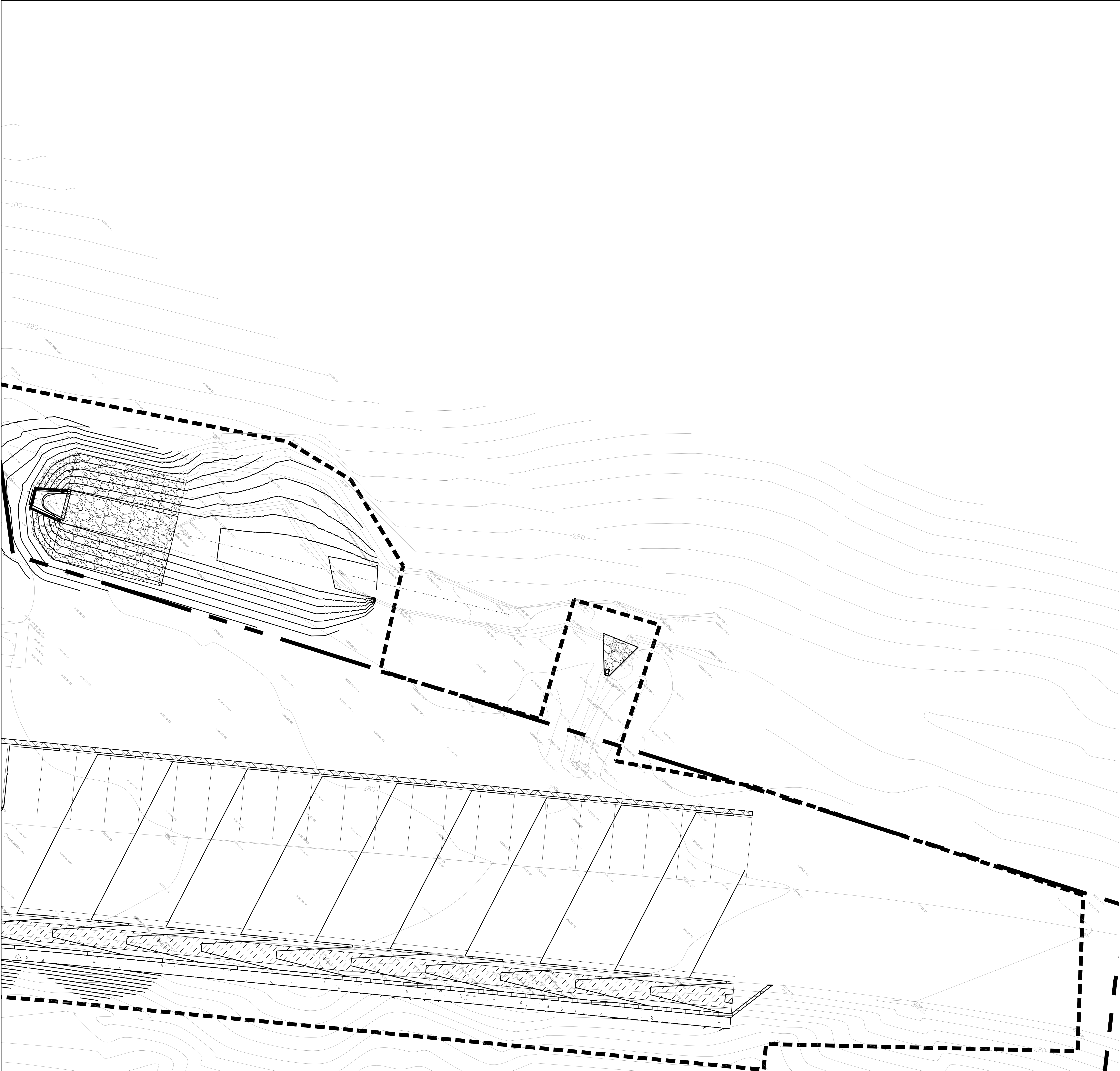
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-	100% DESIGN DEVELOPMENT	19 JULY 2019
No.	Description	Date



GRADING PLAN

Project No.: 005318.00 Checked by: IJM

C0305



LEGEND	
	PROPOSED CONTOUR (FT)
	EXISTING CONTOUR (FT)

County of San Mateo
PDU



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System Replacement
Project

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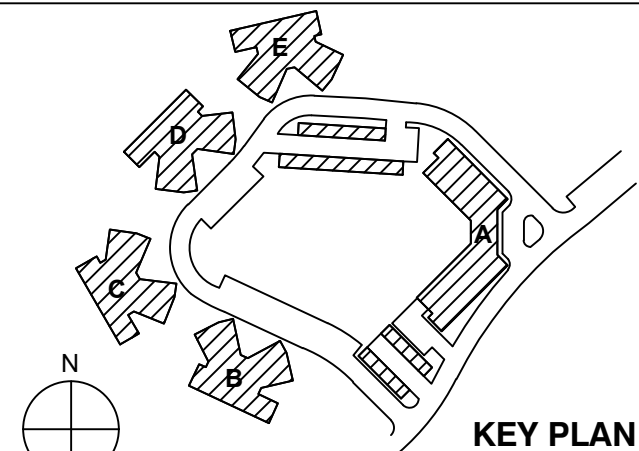
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-	100% DESIGN DEVELOPMENT	19 JULY 2019
No.	Description	Date



Drawing Title:

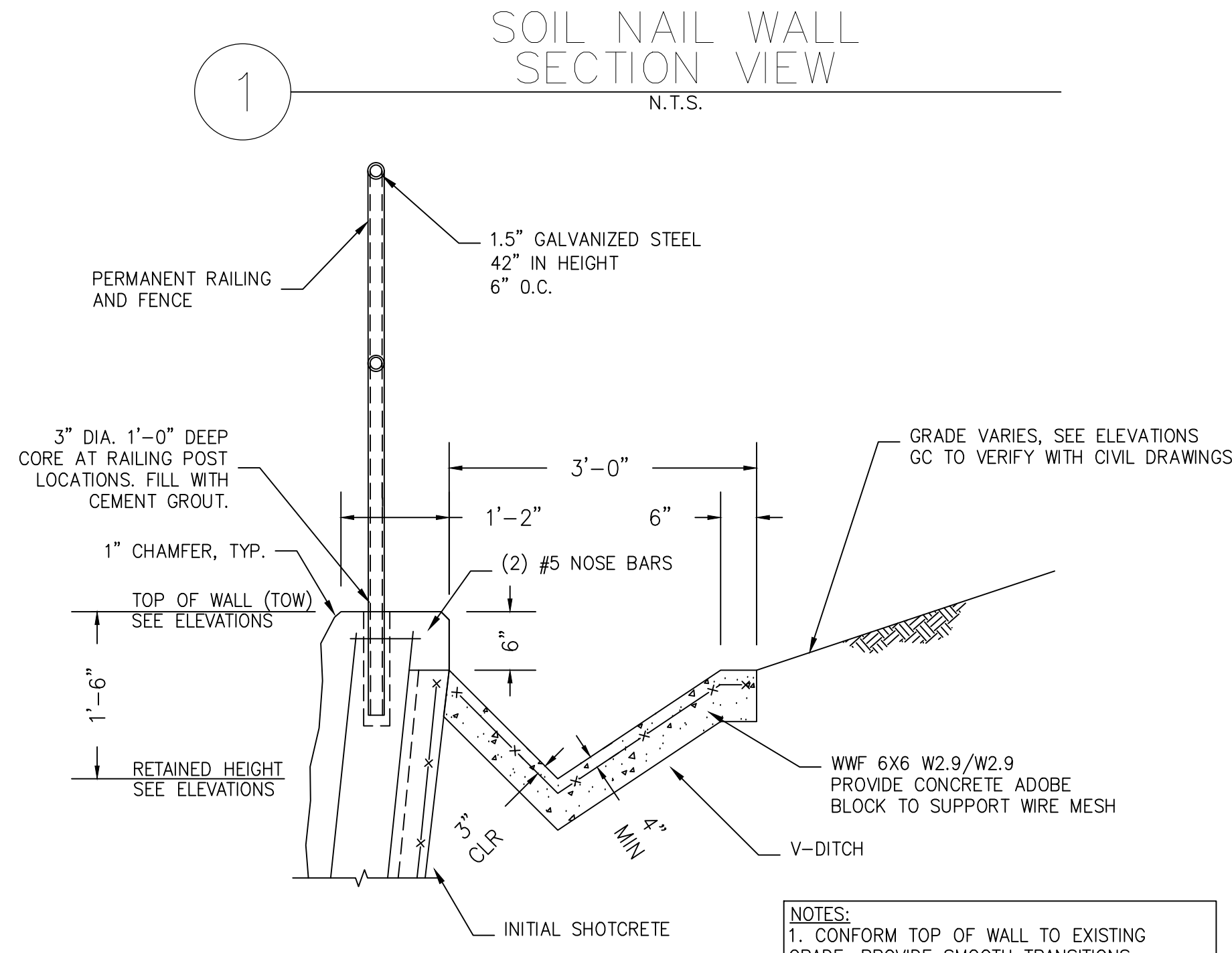
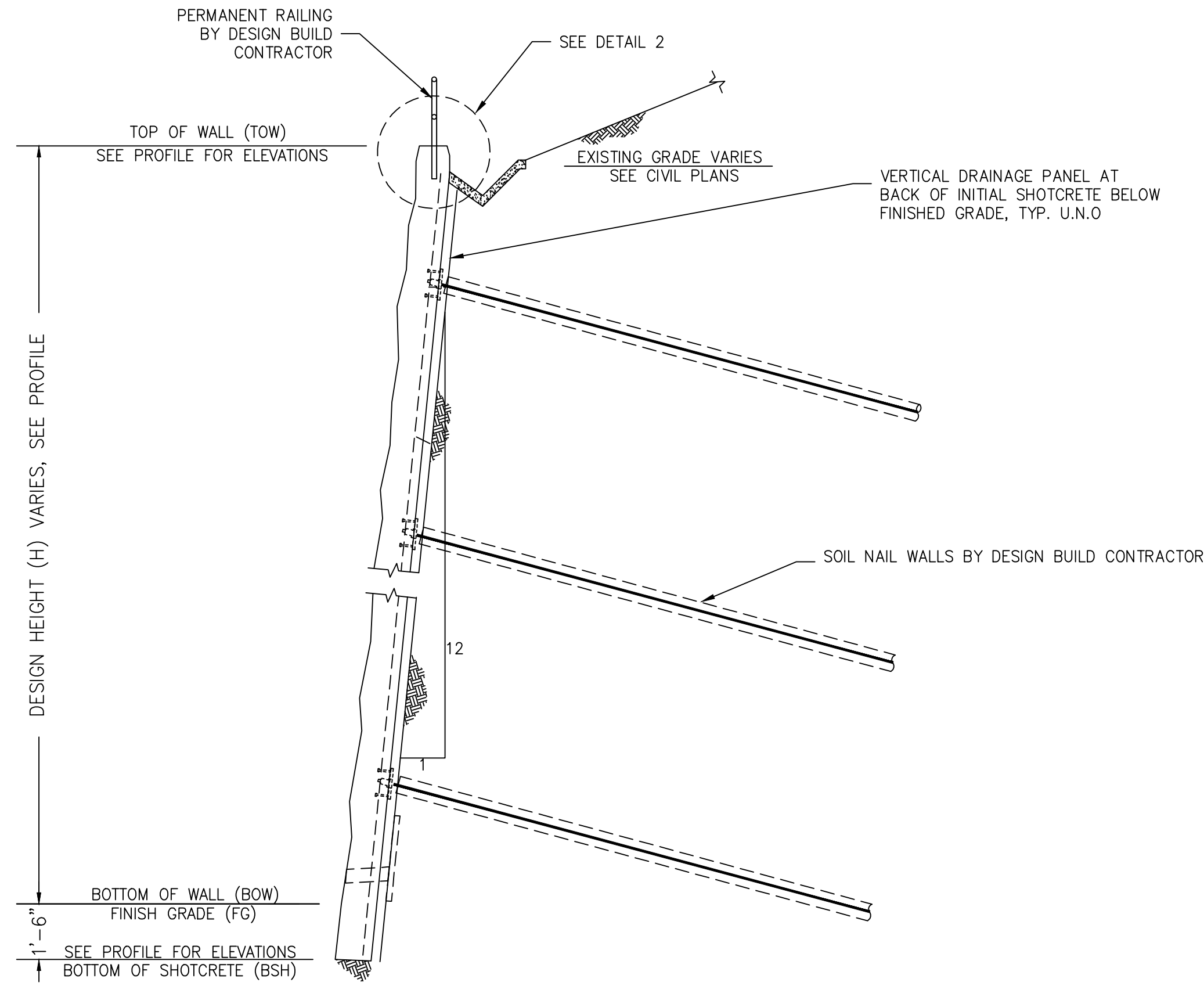
GRADING PLAN

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- NOTES:**
- DESIGN BUILD CONTRACTOR SHALL PREPARE ALL FINAL CONSTRUCTION DOCUMENTS AND OBTAIN NECESSARY PERMITS FOR SOIL NAIL WALL CONSTRUCTION.
 - ALL SOIL NAIL WALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE TO THE GEOTECHNICAL REPORT PREPARED BY ENGEO INCORPORATED DATED MAY 17, 2019.
 - FOR SOIL NAIL WALL DETAILS/TYPICAL SECTIONS - REFER TO DETAILS ON SHEET C0900

County of San Mateo
PDU



Cordilleras Health
System Replacement
Project

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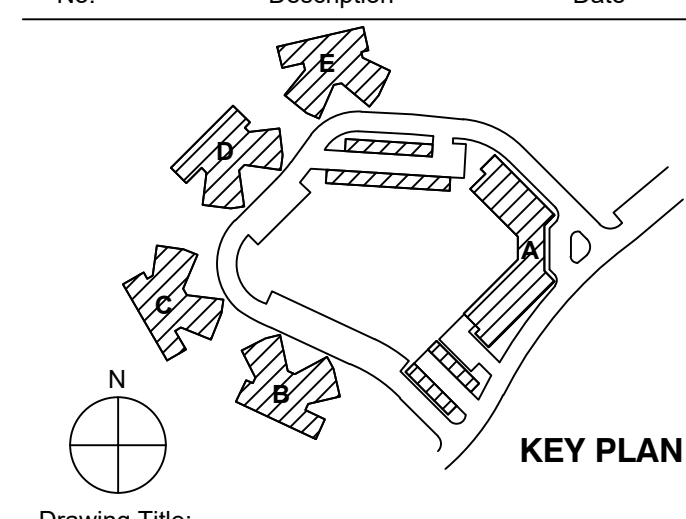
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No.	Description	Date



SOIL NAIL WALL
PLAN KEY MAP
AND DETAILS

Project No.: 005318.00 Checked by: IJM

C0901

Cordilleras Health System Replacement Project EIR

Appendix C: Air Quality / GHG Calculations

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Cordilleras Mental Health Center Existing - San Mateo County, Annual

Cordilleras Mental Health Center Existing

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Congregate Care (Assisted Living)	117.00	Dwelling Unit	7.31	77,000.00	335

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Land use details obtained from Chapter 2 Project Description Table 1

Construction Phase - Operational modeling only

Grading -

Trips and VMT - Operational modeling only

Architectural Coating - Operational emissions modeling only

Cordilleras Mental Health Center Existing - San Mateo County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	51,975.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	155,925.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblArchitecturalCoating	EF_Parking	150.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	0.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	230.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	PhaseEndDate	3/22/2019	2/22/2019
tblConstructionPhase	PhaseEndDate	1/25/2019	3/9/2018
tblConstructionPhase	PhaseEndDate	1/26/2018	12/31/2017
tblConstructionPhase	PhaseEndDate	3/9/2018	2/9/2018
tblConstructionPhase	PhaseEndDate	2/22/2019	1/25/2019
tblConstructionPhase	PhaseEndDate	2/9/2018	1/26/2018
tblLandUse	LandUseSquareFeet	117,000.00	77,000.00
tblTripsAndVMT	WorkerTripNumber	17.00	0.00
tblTripsAndVMT	WorkerTripNumber	84.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00

Cordilleras Mental Health Center Existing - San Mateo County, Annual

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible]

Cordilleras Mental Health Center Existing - San Mateo County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6516	0.0163	1.2448	7.9000e-004		0.0579	0.0579		0.0579	0.0579	5.3340	3.6100	8.9440	9.9700e-003	3.5000e-004	9.2974
Energy	5.5100e-003	0.0471	0.0200	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	198.2114	198.2114	7.5400e-003	2.3400e-003	199.0984
Mobile	0.0869	0.2821	0.9760	3.0100e-003	0.2624	3.7800e-003	0.2662	0.0705	3.5500e-003	0.0741	0.0000	275.0049	275.0049	0.0106	0.0000	275.2704
Waste						0.0000	0.0000		0.0000	0.0000	21.6713	0.0000	21.6713	1.2807	0.0000	53.6898
Water						0.0000	0.0000		0.0000	0.0000	2.4184	16.8928	19.3112	0.2492	6.0200e-003	27.3352
Total	0.7440	0.3455	2.2408	4.1000e-003	0.2624	0.0655	0.3280	0.0705	0.0653	0.1358	29.4238	493.7191	523.1429	1.5580	8.7100e-003	564.6911

Cordilleras Mental Health Center Existing - San Mateo County, Annual

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6516	0.0163	1.2448	7.9000e-004		0.0579	0.0579		0.0579	0.0579	5.3340	3.6100	8.9440	9.9700e-003	3.5000e-004	9.2974
Energy	5.5100e-003	0.0471	0.0200	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	198.2114	198.2114	7.5400e-003	2.3400e-003	199.0984
Mobile	0.0869	0.2821	0.9760	3.0100e-003	0.2624	3.7800e-003	0.2662	0.0705	3.5500e-003	0.0741	0.0000	275.0049	275.0049	0.0106	0.0000	275.2704
Waste						0.0000	0.0000		0.0000	0.0000	21.6713	0.0000	21.6713	1.2807	0.0000	53.6898
Water						0.0000	0.0000		0.0000	0.0000	2.4184	16.8928	19.3112	0.2492	6.0200e-003	27.3352
Total	0.7440	0.3455	2.2408	4.1000e-003	0.2624	0.0655	0.3280	0.0705	0.0653	0.1358	29.4238	493.7191	523.1429	1.5580	8.7100e-003	564.6911

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Cordilleras Mental Health Center Existing - San Mateo County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	12/31/2017	5	0	
2	Site Preparation	Site Preparation	1/27/2018	1/26/2018	5	0	
3	Grading	Grading	2/10/2018	2/9/2018	5	0	
4	Building Construction	Building Construction	3/10/2018	3/9/2018	5	0	
5	Paving	Paving	1/26/2019	1/25/2019	5	0	
6	Architectural Coating	Architectural Coating	2/23/2019	2/22/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Cordilleras Mental Health Center Existing - San Mateo County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Cordilleras Mental Health Center Existing - San Mateo County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	13.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

[illegible]

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3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

Cordilleras Mental Health Center Existing - San Mateo County, Annual

3.3 Site Preparation - 2018

Mitigated Construction Off-Site

[illegible]

3.4 Grading - 2018

Unmitigated Construction On-Site

[illegible]

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3.4 Grading - 2018

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

Cordilleras Mental Health Center Existing - San Mateo County, Annual

3.4 Grading - 2018

Mitigated Construction Off-Site

[illegible]

3.5 Building Construction - 2018

Unmitigated Construction On-Site

[illegible]

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3.5 Building Construction - 2018

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

Cordilleras Mental Health Center Existing - San Mateo County, Annual

3.5 Building Construction - 2018

Mitigated Construction Off-Site

[illegible]

3.6 Paving - 2019

Unmitigated Construction On-Site

[illegible]

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3.6 Paving - 2019

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

Cordilleras Mental Health Center Existing - San Mateo County, Annual

3.6 Paving - 2019

Mitigated Construction Off-Site

[illegible]

3.7 Architectural Coating - 2019

Unmitigated Construction On-Site

[illegible]

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3.7 Architectural Coating - 2019

Unmitigated Construction Off-Site

[illegible]

Mitigated Construction On-Site

[illegible]

Cordilleras Mental Health Center Existing - San Mateo County, Annual

3.7 Architectural Coating - 2019**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0869	0.2821	0.9760	3.0100e-003	0.2624	3.7800e-003	0.2662	0.0705	3.5500e-003	0.0741	0.0000	275.0049	275.0049	0.0106	0.0000	275.2704
Unmitigated	0.0869	0.2821	0.9760	3.0100e-003	0.2624	3.7800e-003	0.2662	0.0705	3.5500e-003	0.0741	0.0000	275.0049	275.0049	0.0106	0.0000	275.2704

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Congregate Care (Assisted Living)	320.58	257.40	285.48	707,987	707,987
Total	320.58	257.40	285.48	707,987	707,987

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Congregate Care (Assisted Living)	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Congregate Care (Assisted Living)	0.498968	0.049513	0.248277	0.134909	0.018184	0.006326	0.020670	0.006254	0.003828	0.003354	0.008577	0.000418	0.000722

5.0 Energy Detail

Cordilleras Mental Health Center Existing - San Mateo County, Annual

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	143.7024	143.7024	6.5000e-003	1.3400e-003	144.2654
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	143.7024	143.7024	6.5000e-003	1.3400e-003	144.2654
NaturalGas Mitigated	5.5100e-003	0.0471	0.0200	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.5090	54.5090	1.0400e-003	1.0000e-003	54.8329
NaturalGas Unmitigated	5.5100e-003	0.0471	0.0200	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.5090	54.5090	1.0400e-003	1.0000e-003	54.8329

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Congregate Care (Assisted Living)	1.02146e+006	5.5100e-003	0.0471	0.0200	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.5090	54.5090	1.0400e-003	1.0000e-003	54.8329
Total		5.5100e-003	0.0471	0.0200	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.5090	54.5090	1.0400e-003	1.0000e-003	54.8329

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Congregate Care (Assisted Living)	1.02146e+006	5.5100e-003	0.0471	0.0200	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.5090	54.5090	1.0400e-003	1.0000e-003	54.8329
Total		5.5100e-003	0.0471	0.0200	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.5090	54.5090	1.0400e-003	1.0000e-003	54.8329

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	493973	143.7024	6.5000e-003	1.3400e-003	144.2654
Total		143.7024	6.5000e-003	1.3400e-003	144.2654

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	493973	143.7024	6.5000e-003	1.3400e-003	144.2654
Total		143.7024	6.5000e-003	1.3400e-003	144.2654

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6516	0.0163	1.2448	7.9000e-004		0.0579	0.0579		0.0579	0.0579	5.3340	3.6100	8.9440	9.9700e-003	3.5000e-004	9.2974
Unmitigated	0.6516	0.0163	1.2448	7.9000e-004		0.0579	0.0579		0.0579	0.0579	5.3340	3.6100	8.9440	9.9700e-003	3.5000e-004	9.2974

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0542					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3007					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2700	6.2100e-003	0.3717	7.4000e-004		0.0532	0.0532		0.0532	0.0532	5.3340	2.1909	7.5249	8.5700e-003	3.5000e-004	7.8435
Landscaping	0.0267	0.0101	0.8730	5.0000e-005		4.7800e-003	4.7800e-003		4.7800e-003	4.7800e-003	0.0000	1.4191	1.4191	1.3900e-003	0.0000	1.4539
Total	0.6516	0.0163	1.2448	7.9000e-004		0.0579	0.0579		0.0579	0.0579	5.3340	3.6100	8.9440	9.9600e-003	3.5000e-004	9.2974

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0542					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3007					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2700	6.2100e-003	0.3717	7.4000e-004		0.0532	0.0532		0.0532	0.0532	5.3340	2.1909	7.5249	8.5700e-003	3.5000e-004	7.8435
Landscaping	0.0267	0.0101	0.8730	5.0000e-005		4.7800e-003	4.7800e-003		4.7800e-003	4.7800e-003	0.0000	1.4191	1.4191	1.3900e-003	0.0000	1.4539
Total	0.6516	0.0163	1.2448	7.9000e-004		0.0579	0.0579		0.0579	0.0579	5.3340	3.6100	8.9440	9.9600e-003	3.5000e-004	9.2974

7.0 Water Detail**7.1 Mitigation Measures Water**

Cordilleras Mental Health Center Existing - San Mateo County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	19.3112	0.2492	6.0200e-003	27.3352
Unmitigated	19.3112	0.2492	6.0200e-003	27.3352

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	7.62302 / 4.80582	19.3112	0.2492	6.0200e-003	27.3352
Total		19.3112	0.2492	6.0200e-003	27.3352

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	7.62302 / 4.80582	19.3112	0.2492	6.0200e-003	27.3352
Total		19.3112	0.2492	6.0200e-003	27.3352

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	21.6713	1.2807	0.0000	53.6898
Unmitigated	21.6713	1.2807	0.0000	53.6898

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	106.76	21.6713	1.2807	0.0000	53.6898
Total		21.6713	1.2807	0.0000	53.6898

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	106.76	21.6713	1.2807	0.0000	53.6898
Total		21.6713	1.2807	0.0000	53.6898

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Cordilleras Health System Replacement Project 20190610 - San Mateo County, Annual

Cordilleras Health System Replacement Project 20190610

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	125.00	Space	1.13	50,000.00	0
Congregate Care (Assisted Living)	121.00	Dwelling Unit	7.56	73,800.00	346

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	235.9	CH4 Intensity (lb/MW hr)	0.036	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Cordilleras Health System Replacement Project 20190610 - San Mateo County, Annual

Project Characteristics - MIG Modeler: Rachel Moeller and Chris Dugan. GHG intensity factors adjusted to reflect estimated PG&E 2022 RPS energy mix.

Land Use - Land Use Detail Source: EIR Chapter 2 Table 1 Cordilleras Mental Health Center, Summary of Facility and Operational Changes

Construction Phase - Construction Phase details obtained from MIG Data Requestion_20190515

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Construction Phase details obtained from MIG Data Requestion_20190515

Off-road Equipment - Construction Phase details obtained from MIG Data Requestion_20190515

Off-road Equipment - Construction Phase details obtained from MIG Data Requestion_20190515

Off-road Equipment -

Off-road Equipment - Construction Phase details obtained from MIG Data Requestion_20190515

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Construction Phase details obtained from MIG Data Requestion_20190515

Off-road Equipment -

Trips and VMT -

Demolition -

Grading - Construction Phase details obtained from MIG Data Requestion_20190515

Woodstoves - No woodstoves or fireplaces

Energy Use - Energy use reduced by half to reflect the proposed sustainable design strategies as outlined in Chapter 2, Project Description

Construction Off-road Equipment Mitigation - Fleet average emission factor of 3.3 g/bhp-hr details obtained from MIG Data Requestion_20190515

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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[illegible]

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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	4.00
tblConstructionPhase	NumDays	20.00	2.00
tblConstructionPhase	NumDays	20.00	2.00
tblConstructionPhase	NumDays	20.00	2.00
tblConstructionPhase	NumDays	20.00	2.00
tblConstructionPhase	NumDays	230.00	411.00
tblConstructionPhase	NumDays	230.00	174.00
tblConstructionPhase	NumDays	230.00	152.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	10.00	109.00
tblConstructionPhase	NumDays	10.00	87.00
tblEnergyUse	LightingElect	741.44	370.72
tblEnergyUse	LightingElect	0.35	0.18
tblEnergyUse	NT24E	3,054.10	1,527.05
tblEnergyUse	NT24NG	2,615.00	1,307.50
tblEnergyUse	T24E	426.45	213.22
tblEnergyUse	T24NG	6,115.43	3,057.72
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00

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tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	18.15	0.00
tblFireplaces	NumberNoFireplace	4.84	0.00
tblFireplaces	NumberWood	20.57	0.00
tblGrading	AcresOfGrading	132.00	10.00
tblGrading	MaterialImported	0.00	9,400.00
tblLandUse	LandUseSquareFeet	121,000.00	73,800.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.036
tblProjectCharacteristics	CO2IntensityFactor	641.35	235.9
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblWoodstoves	NumberCatalytic	2.42	0.00

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tblWoodstoves	NumberNoncatalytic	2.42	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

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2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.7823	7.8763	5.2805	0.0106	1.7423	0.3847	2.1271	0.9116	0.3549	1.2664	0.0000	946.6643	946.6643	0.2442	0.0000	952.7702
2021	2.9459	2.6586	2.8168	6.5600e-003	0.2039	0.1154	0.3193	0.0549	0.1068	0.1617	0.0000	590.8070	590.8070	0.1177	0.0000	593.7497
2022	0.1275	1.1878	1.1347	2.3700e-003	0.0759	0.0533	0.1292	0.0164	0.0494	0.0658	0.0000	212.6277	212.6277	0.0494	0.0000	213.8615
Maximum	2.9459	7.8763	5.2805	0.0106	1.7423	0.3847	2.1271	0.9116	0.3549	1.2664	0.0000	946.6643	946.6643	0.2442	0.0000	952.7702

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2690	4.7631	5.8853	0.0106	0.7748	0.2301	1.0049	0.3812	0.2300	0.6111	0.0000	946.6635	946.6635	0.2442	0.0000	952.7694
2021	2.8192	2.5194	3.2275	6.5600e-003	0.2039	0.1183	0.3222	0.0549	0.1181	0.1731	0.0000	590.8066	590.8066	0.1177	0.0000	593.7493
2022	0.0595	0.9682	1.3191	2.3700e-003	0.0549	0.0426	0.0974	0.0132	0.0426	0.0558	0.0000	212.6275	212.6275	0.0494	0.0000	213.8614
Maximum	2.8192	4.7631	5.8853	0.0106	0.7748	0.2301	1.0049	0.3812	0.2300	0.6111	0.0000	946.6635	946.6635	0.2442	0.0000	952.7694

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	18.36	29.62	-13.00	0.00	48.89	29.35	44.69	54.29	23.55	43.78	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-1-2020	4-30-2020	1.7332	0.9753
2	5-1-2020	7-31-2020	2.3807	1.3173
3	8-1-2020	10-31-2020	2.6164	1.5370
4	11-1-2020	1-31-2021	2.2898	1.5366
5	2-1-2021	4-30-2021	1.4666	1.3727
6	5-1-2021	7-31-2021	1.4987	1.4017
7	8-1-2021	10-31-2021	1.6217	1.5787
8	11-1-2021	1-31-2022	0.7466	0.7447
9	2-1-2022	4-30-2022	0.3867	0.2909
10	5-1-2022	7-31-2022	0.6727	0.4759
11	8-1-2022	9-30-2022	0.0478	0.0516
		Highest	2.6164	1.5787

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2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3716	0.0104	0.8998	5.0000e-005		4.9800e-003	4.9800e-003		4.9800e-003	4.9800e-003	0.0000	1.4698	1.4698	1.4200e-003	0.0000	1.5053
Energy	2.8500e-003	0.0243	0.0104	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	56.4810	56.4810	4.8600e-003	1.0000e-003	56.8994
Mobile	0.0699	0.1962	0.7884	2.8000e-003	0.2715	2.2400e-003	0.2737	0.0730	2.0900e-003	0.0751	0.0000	256.5042	256.5042	9.1800e-003	0.0000	256.7337
Stationary	4.9000e-004	1.6100e-003	1.7900e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2285	0.2285	3.0000e-005	0.0000	0.2293
Waste						0.0000	0.0000		0.0000	0.0000	22.4122	0.0000	22.4122	1.3245	0.0000	55.5254
Water						0.0000	0.0000		0.0000	0.0000	2.5011	6.4259	8.9270	0.2579	6.1700e-003	17.2138
Total	0.4448	0.2326	1.7003	3.0100e-003	0.2715	9.2600e-003	0.2808	0.0730	9.1100e-003	0.0821	24.9133	321.1093	346.0227	1.5979	7.1700e-003	388.1067

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3716	0.0104	0.8998	5.0000e-005		4.9800e-003	4.9800e-003		4.9800e-003	4.9800e-003	0.0000	1.4698	1.4698	1.4200e-003	0.0000	1.5053
Energy	2.8500e-003	0.0243	0.0104	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	56.4810	56.4810	4.8600e-003	1.0000e-003	56.8994
Mobile	0.0699	0.1962	0.7884	2.8000e-003	0.2715	2.2400e-003	0.2737	0.0730	2.0900e-003	0.0751	0.0000	256.5042	256.5042	9.1800e-003	0.0000	256.7337
Stationary	4.9000e-004	1.6100e-003	1.7900e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2285	0.2285	3.0000e-005	0.0000	0.2293
Waste						0.0000	0.0000		0.0000	0.0000	22.4122	0.0000	22.4122	1.3245	0.0000	55.5254
Water						0.0000	0.0000		0.0000	0.0000	2.5011	6.4259	8.9270	0.2579	6.1700e-003	17.2138
Total	0.4448	0.2326	1.7003	3.0100e-003	0.2715	9.2600e-003	0.2808	0.0730	9.1100e-003	0.0821	24.9133	321.1093	346.0227	1.5979	7.1700e-003	388.1067

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction (Vertical)	Building Construction	2/1/2020	8/30/2021	5	411	
2	Site Preparation	Site Preparation	3/1/2020	6/30/2020	5	87	
3	Grading	Grading	7/1/2020	12/31/2020	5	132	
4	Building Construction (Foundation)	Building Construction	12/1/2020	7/31/2021	5	174	
5	Architectural Coating (1st phase)	Architectural Coating	4/1/2021	4/2/2021	5	2	
6	Architectural Coating (2nd phase)	Architectural Coating	6/1/2021	6/2/2021	5	2	
7	Architectural Coating (3rd phase)	Architectural Coating	8/1/2021	8/3/2021	5	2	
8	Building Construction (Interior)	Building Construction	9/1/2021	3/31/2022	5	152	
9	Architectural Coating (4th phase)	Architectural Coating	10/1/2021	10/4/2021	5	2	
10	Architectural Coating (5th phase)	Architectural Coating	12/1/2021	12/6/2021	5	4	
11	Paving (1st phase)	Paving	1/1/2022	1/14/2022	5	10	
12	Demolition	Demolition	4/1/2022	6/30/2022	5	65	
13	Site Finishing	Site Preparation	7/1/2022	11/30/2022	5	109	
14	Paving (2nd phase)	Paving	12/1/2022	12/14/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 1.13

Residential Indoor: 149,445; Residential Outdoor: 49,815; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,000 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38

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Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	2	8.00	187	0.41
Grading	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction (Foundation)	Bore/Drill Rigs	1	8.00	221	0.50
Building Construction (Foundation)	Cranes	0	7.00	231	0.29
Building Construction (Foundation)	Excavators	1	8.00	158	0.38
Building Construction (Foundation)	Forklifts	0	8.00	89	0.20
Building Construction (Foundation)	Generator Sets	0	8.00	84	0.74
Building Construction (Foundation)	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction (Foundation)	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction (Foundation)	Welders	0	8.00	46	0.45
Paving (1st phase)	Pavers	2	8.00	130	0.42
Paving (1st phase)	Paving Equipment	2	8.00	132	0.36
Paving (1st phase)	Rollers	2	8.00	80	0.38
Architectural Coating (1st phase)	Air Compressors	1	6.00	78	0.48
Paving (2nd phase)	Pavers	2	8.00	130	0.42
Paving (2nd phase)	Paving Equipment	2	8.00	132	0.36
Paving (2nd phase)	Rollers	2	8.00	80	0.38
Architectural Coating (2nd phase)	Air Compressors	1	6.00	78	0.48
Architectural Coating (3rd phase)	Air Compressors	1	6.00	78	0.48
Architectural Coating (4th phase)	Air Compressors	1	6.00	78	0.48
Architectural Coating (5th phase)	Air Compressors	1	6.00	78	0.48

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Building Construction (Vertical)	Aerial Lifts	1	4.00	63	0.31
Building Construction (Vertical)	Cranes	1	7.00	231	0.29
Building Construction (Vertical)	Forklifts	3	8.00	89	0.20
Building Construction (Vertical)	Generator Sets	0	8.00	84	0.74
Building Construction (Vertical)	Other Material Handling Equipment	1	4.00	168	0.40
Building Construction (Vertical)	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction (Vertical)	Welders	1	8.00	46	0.45
Building Construction (Interior)	Cranes	0	7.00	231	0.29
Building Construction (Interior)	Forklifts	0	8.00	89	0.20
Building Construction (Interior)	Generator Sets	0	8.00	84	0.74
Building Construction (Interior)	Other Material Handling Equipment	1	2.00	168	0.40
Building Construction (Interior)	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction (Interior)	Welders	0	8.00	46	0.45
Site Finishing	Other Material Handling Equipment	1	4.00	168	0.40
Site Finishing	Tractors/Loaders/Backhoes	1	4.00	97	0.37

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	318.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	0.00	929.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Foundation)	5	108.00	21.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving (1st phase)	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (1st phase)	1	22.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving (2nd phase)	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (2nd phase)	1	22.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (3rd phase)	1	22.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (4th phase)	1	22.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating (5th phase)	1	22.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Vertical)	10	108.00	21.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction (Interior)	1	108.00	21.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Finishing	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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3.2 Building Construction (Vertical) - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2259	2.0831	1.8605	2.8800e-003		0.1193	0.1193		0.1105	0.1105	0.0000	248.3832	248.3832	0.0764	0.0000	250.2928
Total	0.2259	2.0831	1.8605	2.8800e-003		0.1193	0.1193		0.1105	0.1105	0.0000	248.3832	248.3832	0.0764	0.0000	250.2928

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.7300e-003	0.2910	0.1159	6.7000e-004	0.0164	1.4500e-003	0.0178	4.7300e-003	1.3900e-003	6.1200e-003	0.0000	66.5002	66.5002	5.7800e-003	0.0000	66.6447
Worker	0.0352	0.0239	0.2512	9.3000e-004	0.1016	6.4000e-004	0.1022	0.0270	5.9000e-004	0.0276	0.0000	84.6026	84.6026	1.6500e-003	0.0000	84.6438
Total	0.0449	0.3149	0.3670	1.6000e-003	0.1180	2.0900e-003	0.1201	0.0318	1.9800e-003	0.0338	0.0000	151.1028	151.1028	7.4300e-003	0.0000	151.2885

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3.2 Building Construction (Vertical) - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0758	1.5617	1.9894	2.8800e-003		0.0947	0.0947		0.0947	0.0947	0.0000	248.3829	248.3829	0.0764	0.0000	250.2925
Total	0.0758	1.5617	1.9894	2.8800e-003		0.0947	0.0947		0.0947	0.0947	0.0000	248.3829	248.3829	0.0764	0.0000	250.2925

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.7300e-003	0.2910	0.1159	6.7000e-004	0.0164	1.4500e-003	0.0178	4.7300e-003	1.3900e-003	6.1200e-003	0.0000	66.5002	66.5002	5.7800e-003	0.0000	66.6447
Worker	0.0352	0.0239	0.2512	9.3000e-004	0.1016	6.4000e-004	0.1022	0.0270	5.9000e-004	0.0276	0.0000	84.6026	84.6026	1.6500e-003	0.0000	84.6438
Total	0.0449	0.3149	0.3670	1.6000e-003	0.1180	2.0900e-003	0.1201	0.0318	1.9800e-003	0.0338	0.0000	151.1028	151.1028	7.4300e-003	0.0000	151.2885

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3.2 Building Construction (Vertical) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1470	1.3672	1.3185	2.0700e-003		0.0743	0.0743		0.0689	0.0689	0.0000	178.7762	178.7762	0.0547	0.0000	180.1436
Total	0.1470	1.3672	1.3185	2.0700e-003		0.0743	0.0743		0.0689	0.0689	0.0000	178.7762	178.7762	0.0547	0.0000	180.1436

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7700e-003	0.1881	0.0807	4.7000e-004	0.0118	4.3000e-004	0.0122	3.4100e-003	4.1000e-004	3.8200e-003	0.0000	47.2636	47.2636	4.0800e-003	0.0000	47.3657
Worker	0.0237	0.0154	0.1669	6.5000e-004	0.0731	4.5000e-004	0.0736	0.0195	4.1000e-004	0.0199	0.0000	58.7197	58.7197	1.0700e-003	0.0000	58.7464
Total	0.0295	0.2035	0.2476	1.1200e-003	0.0849	8.8000e-004	0.0858	0.0229	8.2000e-004	0.0237	0.0000	105.9833	105.9833	5.1500e-003	0.0000	106.1121

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3.2 Building Construction (Vertical) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0545	1.1239	1.4317	2.0700e-003		0.0682	0.0682		0.0682	0.0682	0.0000	178.7760	178.7760	0.0547	0.0000	180.1433
Total	0.0545	1.1239	1.4317	2.0700e-003		0.0682	0.0682		0.0682	0.0682	0.0000	178.7760	178.7760	0.0547	0.0000	180.1433

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.7700e-003	0.1881	0.0807	4.7000e-004	0.0118	4.3000e-004	0.0122	3.4100e-003	4.1000e-004	3.8200e-003	0.0000	47.2636	47.2636	4.0800e-003	0.0000	47.3657
Worker	0.0237	0.0154	0.1669	6.5000e-004	0.0731	4.5000e-004	0.0736	0.0195	4.1000e-004	0.0199	0.0000	58.7197	58.7197	1.0700e-003	0.0000	58.7464
Total	0.0295	0.2035	0.2476	1.1200e-003	0.0849	8.8000e-004	0.0858	0.0229	8.2000e-004	0.0237	0.0000	105.9833	105.9833	5.1500e-003	0.0000	106.1121

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3.3 Site Preparation - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7859	0.0000	0.7859	0.4320	0.0000	0.4320	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1773	1.8452	0.9358	1.6500e-003		0.0956	0.0956		0.0879	0.0879	0.0000	145.4235	145.4235	0.0470	0.0000	146.5993
Total	0.1773	1.8452	0.9358	1.6500e-003	0.7859	0.0956	0.8815	0.4320	0.0879	0.5199	0.0000	145.4235	145.4235	0.0470	0.0000	146.5993

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1400e-003	1.4500e-003	0.0152	6.0000e-005	6.1600e-003	4.0000e-005	6.2000e-003	1.6400e-003	4.0000e-005	1.6800e-003	0.0000	5.1328	5.1328	1.0000e-004	0.0000	5.1353
Total	2.1400e-003	1.4500e-003	0.0152	6.0000e-005	6.1600e-003	4.0000e-005	6.2000e-003	1.6400e-003	4.0000e-005	1.6800e-003	0.0000	5.1328	5.1328	1.0000e-004	0.0000	5.1353

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3.3 Site Preparation - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3065	0.0000	0.3065	0.1685	0.0000	0.1685	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0405	0.8294	0.9988	1.6500e-003		0.0412	0.0412		0.0412	0.0412	0.0000	145.4233	145.4233	0.0470	0.0000	146.5991
Total	0.0405	0.8294	0.9988	1.6500e-003	0.3065	0.0412	0.3477	0.1685	0.0412	0.2096	0.0000	145.4233	145.4233	0.0470	0.0000	146.5991

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1400e-003	1.4500e-003	0.0152	6.0000e-005	6.1600e-003	4.0000e-005	6.2000e-003	1.6400e-003	4.0000e-005	1.6800e-003	0.0000	5.1328	5.1328	1.0000e-004	0.0000	5.1353
Total	2.1400e-003	1.4500e-003	0.0152	6.0000e-005	6.1600e-003	4.0000e-005	6.2000e-003	1.6400e-003	4.0000e-005	1.6800e-003	0.0000	5.1328	5.1328	1.0000e-004	0.0000	5.1353

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3.4 Grading - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8002	0.0000	0.8002	0.4375	0.0000	0.4375	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3068	3.3167	1.8416	3.5200e-003		0.1605	0.1605		0.1477	0.1477	0.0000	309.5183	309.5183	0.1001	0.0000	312.0209
Total	0.3068	3.3167	1.8416	3.5200e-003	0.8002	0.1605	0.9607	0.4375	0.1477	0.5852	0.0000	309.5183	309.5183	0.1001	0.0000	312.0209

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.1100e-003	0.1499	0.0625	3.8000e-004	7.7700e-003	4.7000e-004	8.2400e-003	2.1300e-003	4.5000e-004	2.5800e-003	0.0000	38.8003	38.8003	4.8400e-003	0.0000	38.9214
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-003	3.0500e-003	0.0321	1.2000e-004	0.0130	8.0000e-005	0.0131	3.4600e-003	8.0000e-005	3.5300e-003	0.0000	10.8162	10.8162	2.1000e-004	0.0000	10.8215
Total	8.6100e-003	0.1530	0.0946	5.0000e-004	0.0208	5.5000e-004	0.0213	5.5900e-003	5.3000e-004	6.1100e-003	0.0000	49.6166	49.6166	5.0500e-003	0.0000	49.7429

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3.4 Grading - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3121	0.0000	0.3121	0.1706	0.0000	0.1706	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0863	1.7398	2.2110	3.5200e-003		0.0844	0.0844		0.0844	0.0844	0.0000	309.5179	309.5179	0.1001	0.0000	312.0205
Total	0.0863	1.7398	2.2110	3.5200e-003	0.3121	0.0844	0.3965	0.1706	0.0844	0.2550	0.0000	309.5179	309.5179	0.1001	0.0000	312.0205

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.1100e-003	0.1499	0.0625	3.8000e-004	7.7700e-003	4.7000e-004	8.2400e-003	2.1300e-003	4.5000e-004	2.5800e-003	0.0000	38.8003	38.8003	4.8400e-003	0.0000	38.9214
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-003	3.0500e-003	0.0321	1.2000e-004	0.0130	8.0000e-005	0.0131	3.4600e-003	8.0000e-005	3.5300e-003	0.0000	10.8162	10.8162	2.1000e-004	0.0000	10.8215
Total	8.6100e-003	0.1530	0.0946	5.0000e-004	0.0208	5.5000e-004	0.0213	5.5900e-003	5.3000e-004	6.1100e-003	0.0000	49.6166	49.6166	5.0500e-003	0.0000	49.7429

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3.5 Building Construction (Foundation) - 2020**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0123	0.1318	0.1303	2.6000e-004		6.5300e-003	6.5300e-003		6.0100e-003	6.0100e-003	0.0000	22.9460	22.9460	7.4200e-003	0.0000	23.1315
Total	0.0123	0.1318	0.1303	2.6000e-004		6.5300e-003	6.5300e-003		6.0100e-003	6.0100e-003	0.0000	22.9460	22.9460	7.4200e-003	0.0000	23.1315

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.4000e-004	0.0280	0.0112	6.0000e-005	1.5700e-003	1.4000e-004	1.7100e-003	4.6000e-004	1.3000e-004	5.9000e-004	0.0000	6.3996	6.3996	5.6000e-004	0.0000	6.4135
Worker	3.3900e-003	2.3000e-003	0.0242	9.0000e-005	9.7800e-003	6.0000e-005	9.8400e-003	2.6000e-003	6.0000e-005	2.6600e-003	0.0000	8.1417	8.1417	1.6000e-004	0.0000	8.1456
Total	4.3300e-003	0.0303	0.0353	1.5000e-004	0.0114	2.0000e-004	0.0116	3.0600e-003	1.9000e-004	3.2500e-003	0.0000	14.5413	14.5413	7.2000e-004	0.0000	14.5591

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3.5 Building Construction (Foundation) - 2020**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.4400e-003	0.1326	0.1740	2.6000e-004		7.0000e-003	7.0000e-003		7.0000e-003	7.0000e-003	0.0000	22.9459	22.9459	7.4200e-003	0.0000	23.1315
Total	6.4400e-003	0.1326	0.1740	2.6000e-004		7.0000e-003	7.0000e-003		7.0000e-003	7.0000e-003	0.0000	22.9459	22.9459	7.4200e-003	0.0000	23.1315

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.4000e-004	0.0280	0.0112	6.0000e-005	1.5700e-003	1.4000e-004	1.7100e-003	4.6000e-004	1.3000e-004	5.9000e-004	0.0000	6.3996	6.3996	5.6000e-004	0.0000	6.4135
Worker	3.3900e-003	2.3000e-003	0.0242	9.0000e-005	9.7800e-003	6.0000e-005	9.8400e-003	2.6000e-003	6.0000e-005	2.6600e-003	0.0000	8.1417	8.1417	1.6000e-004	0.0000	8.1456
Total	4.3300e-003	0.0303	0.0353	1.5000e-004	0.0114	2.0000e-004	0.0116	3.0600e-003	1.9000e-004	3.2500e-003	0.0000	14.5413	14.5413	7.2000e-004	0.0000	14.5591

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3.5 Building Construction (Foundation) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0739	0.7665	0.8516	1.7200e-003		0.0370	0.0370		0.0340	0.0340	0.0000	150.8284	150.8284	0.0488	0.0000	152.0479
Total	0.0739	0.7665	0.8516	1.7200e-003		0.0370	0.0370		0.0340	0.0340	0.0000	150.8284	150.8284	0.0488	0.0000	152.0479

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0600e-003	0.1651	0.0709	4.2000e-004	0.0103	3.8000e-004	0.0107	2.9900e-003	3.6000e-004	3.3500e-003	0.0000	41.4930	41.4930	3.5900e-003	0.0000	41.5827
Worker	0.0208	0.0135	0.1465	5.7000e-004	0.0642	3.9000e-004	0.0646	0.0171	3.6000e-004	0.0174	0.0000	51.5505	51.5505	9.4000e-004	0.0000	51.5739
Total	0.0259	0.1786	0.2174	9.9000e-004	0.0745	7.7000e-004	0.0753	0.0201	7.2000e-004	0.0208	0.0000	93.0435	93.0435	4.5300e-003	0.0000	93.1566

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3.5 Building Construction (Foundation) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0423	0.8706	1.1425	1.7200e-003		0.0460	0.0460		0.0460	0.0460	0.0000	150.8282	150.8282	0.0488	0.0000	152.0477
Total	0.0423	0.8706	1.1425	1.7200e-003		0.0460	0.0460		0.0460	0.0460	0.0000	150.8282	150.8282	0.0488	0.0000	152.0477

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0600e-003	0.1651	0.0709	4.2000e-004	0.0103	3.8000e-004	0.0107	2.9900e-003	3.6000e-004	3.3500e-003	0.0000	41.4930	41.4930	3.5900e-003	0.0000	41.5827
Worker	0.0208	0.0135	0.1465	5.7000e-004	0.0642	3.9000e-004	0.0646	0.0171	3.6000e-004	0.0174	0.0000	51.5505	51.5505	9.4000e-004	0.0000	51.5739
Total	0.0259	0.1786	0.2174	9.9000e-004	0.0745	7.7000e-004	0.0753	0.0201	7.2000e-004	0.0208	0.0000	93.0435	93.0435	4.5300e-003	0.0000	93.1566

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3.6 Architectural Coating (1st phase) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5299					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2000e-004	1.5300e-003	1.8200e-003	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558
Total	0.5302	1.5300e-003	1.8200e-003	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392
Total	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392

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3.6 Architectural Coating (1st phase) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5299					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558
Total	0.5300	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392
Total	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392

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3.7 Architectural Coating (2nd phase) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5299					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2000e-004	1.5300e-003	1.8200e-003	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558
Total	0.5302	1.5300e-003	1.8200e-003	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392
Total	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392

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3.7 Architectural Coating (2nd phase) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5299					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558
Total	0.5300	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392
Total	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392

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3.8 Architectural Coating (3rd phase) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5299					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2000e-004	1.5300e-003	1.8200e-003	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558
Total	0.5302	1.5300e-003	1.8200e-003	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392
Total	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392

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3.8 Architectural Coating (3rd phase) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5299					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558
Total	0.5300	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392
Total	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392

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3.9 Building Construction (Interior) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2400e-003	0.0293	0.0417	6.0000e-005		1.4800e-003	1.4800e-003		1.3600e-003	1.3600e-003	0.0000	5.5850	5.5850	1.8100e-003	0.0000	5.6302
Total	3.2400e-003	0.0293	0.0417	6.0000e-005		1.4800e-003	1.4800e-003		1.3600e-003	1.3600e-003	0.0000	5.5850	5.5850	1.8100e-003	0.0000	5.6302

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9500e-003	0.0962	0.0413	2.4000e-004	6.0200e-003	2.2000e-004	6.2400e-003	1.7400e-003	2.1000e-004	1.9500e-003	0.0000	24.1814	24.1814	2.0900e-003	0.0000	24.2336
Worker	0.0121	7.8800e-003	0.0854	3.3000e-004	0.0374	2.3000e-004	0.0376	9.9600e-003	2.1000e-004	0.0102	0.0000	30.0427	30.0427	5.5000e-004	0.0000	30.0563
Total	0.0151	0.1041	0.1267	5.7000e-004	0.0434	4.5000e-004	0.0439	0.0117	4.2000e-004	0.0121	0.0000	54.2240	54.2240	2.6400e-003	0.0000	54.2899

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3.9 Building Construction (Interior) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5600e-003	0.0303	0.0482	6.0000e-005		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	5.5850	5.5850	1.8100e-003	0.0000	5.6302
Total	1.5600e-003	0.0303	0.0482	6.0000e-005		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	5.5850	5.5850	1.8100e-003	0.0000	5.6302

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9500e-003	0.0962	0.0413	2.4000e-004	6.0200e-003	2.2000e-004	6.2400e-003	1.7400e-003	2.1000e-004	1.9500e-003	0.0000	24.1814	24.1814	2.0900e-003	0.0000	24.2336
Worker	0.0121	7.8800e-003	0.0854	3.3000e-004	0.0374	2.3000e-004	0.0376	9.9600e-003	2.1000e-004	0.0102	0.0000	30.0427	30.0427	5.5000e-004	0.0000	30.0563
Total	0.0151	0.1041	0.1267	5.7000e-004	0.0434	4.5000e-004	0.0439	0.0117	4.2000e-004	0.0121	0.0000	54.2240	54.2240	2.6400e-003	0.0000	54.2899

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3.9 Building Construction (Interior) - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1400e-003	0.0180	0.0301	5.0000e-005		9.7000e-004	9.7000e-004		9.0000e-004	9.0000e-004	0.0000	4.0618	4.0618	1.3100e-003	0.0000	4.0947
Total	2.1400e-003	0.0180	0.0301	5.0000e-005		9.7000e-004	9.7000e-004		9.0000e-004	9.0000e-004	0.0000	4.0618	4.0618	1.3100e-003	0.0000	4.0947

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0200e-003	0.0658	0.0300	1.7000e-004	4.3800e-003	1.4000e-004	4.5200e-003	1.2700e-003	1.4000e-004	1.4000e-003	0.0000	17.3603	17.3603	1.5100e-003	0.0000	17.3981
Worker	8.3200e-003	5.1700e-003	0.0578	2.3000e-004	0.0272	1.6000e-004	0.0274	7.2400e-003	1.5000e-004	7.3900e-003	0.0000	21.0500	21.0500	3.6000e-004	0.0000	21.0589
Total	0.0103	0.0710	0.0878	4.0000e-004	0.0316	3.0000e-004	0.0319	8.5100e-003	2.9000e-004	8.7900e-003	0.0000	38.4103	38.4103	1.8700e-003	0.0000	38.4570

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3.9 Building Construction (Interior) - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1400e-003	0.0220	0.0351	5.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	4.0618	4.0618	1.3100e-003	0.0000	4.0947
Total	1.1400e-003	0.0220	0.0351	5.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	4.0618	4.0618	1.3100e-003	0.0000	4.0947

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0200e-003	0.0658	0.0300	1.7000e-004	4.3800e-003	1.4000e-004	4.5200e-003	1.2700e-003	1.4000e-004	1.4000e-003	0.0000	17.3603	17.3603	1.5100e-003	0.0000	17.3981
Worker	8.3200e-003	5.1700e-003	0.0578	2.3000e-004	0.0272	1.6000e-004	0.0274	7.2400e-003	1.5000e-004	7.3900e-003	0.0000	21.0500	21.0500	3.6000e-004	0.0000	21.0589
Total	0.0103	0.0710	0.0878	4.0000e-004	0.0316	3.0000e-004	0.0319	8.5100e-003	2.9000e-004	8.7900e-003	0.0000	38.4103	38.4103	1.8700e-003	0.0000	38.4570

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3.10 Architectural Coating (4th phase) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5299					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2000e-004	1.5300e-003	1.8200e-003	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558
Total	0.5302	1.5300e-003	1.8200e-003	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392
Total	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392

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3.10 Architectural Coating (4th phase) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5299					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558
Total	0.5300	1.3600e-003	1.8300e-003	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392
Total	6.0000e-005	4.0000e-005	4.0000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1391	0.1391	0.0000	0.0000	0.1392

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3.11 Architectural Coating (5th phase) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5299					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4000e-004	3.0500e-003	3.6400e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.5107	0.5107	4.0000e-005	0.0000	0.5115
Total	0.5304	3.0500e-003	3.6400e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.5107	0.5107	4.0000e-005	0.0000	0.5115

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	7.0000e-005	7.9000e-004	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2782	0.2782	1.0000e-005	0.0000	0.2783
Total	1.1000e-004	7.0000e-005	7.9000e-004	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2782	0.2782	1.0000e-005	0.0000	0.2783

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3.11 Architectural Coating (5th phase) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5299					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2000e-004	2.7100e-003	3.6600e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.5107	0.5107	4.0000e-005	0.0000	0.5115
Total	0.5301	2.7100e-003	3.6600e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	0.5107	0.5107	4.0000e-005	0.0000	0.5115

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	7.0000e-005	7.9000e-004	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2782	0.2782	1.0000e-005	0.0000	0.2783
Total	1.1000e-004	7.0000e-005	7.9000e-004	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2782	0.2782	1.0000e-005	0.0000	0.2783

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3.12 Paving (1st phase) - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5100e-003	0.0556	0.0729	1.1000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0948
Paving	1.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.9900e-003	0.0556	0.0729	1.1000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0948

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.1000e-004	1.2500e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4568	0.4568	1.0000e-005	0.0000	0.4570
Total	1.8000e-004	1.1000e-004	1.2500e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4568	0.4568	1.0000e-005	0.0000	0.4570

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3.12 Paving (1st phase) - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-003	0.0565	0.0865	1.1000e-004		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0947
Paving	1.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.2800e-003	0.0565	0.0865	1.1000e-004		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0947

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.1000e-004	1.2500e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4568	0.4568	1.0000e-005	0.0000	0.4570
Total	1.8000e-004	1.1000e-004	1.2500e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4568	0.4568	1.0000e-005	0.0000	0.4570

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3.13 Demolition - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0345	0.0000	0.0345	5.2200e-003	0.0000	5.2200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0858	0.8359	0.6693	1.2600e-003		0.0404	0.0404		0.0376	0.0376	0.0000	110.4682	110.4682	0.0310	0.0000	111.2440
Total	0.0858	0.8359	0.6693	1.2600e-003	0.0345	0.0404	0.0748	5.2200e-003	0.0376	0.0428	0.0000	110.4682	110.4682	0.0310	0.0000	111.2440

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2800e-003	0.0435	0.0229	1.2000e-004	2.6600e-003	1.3000e-004	2.7900e-003	7.3000e-004	1.2000e-004	8.5000e-004	0.0000	12.8346	12.8346	1.6900e-003	0.0000	12.8768
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1700e-003	7.3000e-004	8.1500e-003	3.0000e-005	3.8400e-003	2.0000e-005	3.8600e-003	1.0200e-003	2.0000e-005	1.0400e-003	0.0000	2.9693	2.9693	5.0000e-005	0.0000	2.9706
Total	2.4500e-003	0.0442	0.0310	1.5000e-004	6.5000e-003	1.5000e-004	6.6500e-003	1.7500e-003	1.4000e-004	1.8900e-003	0.0000	15.8039	15.8039	1.7400e-003	0.0000	15.8473

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3.13 Demolition - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0134	0.0000	0.0134	2.0300e-003	0.0000	2.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0301	0.5952	0.8019	1.2600e-003		0.0280	0.0280		0.0280	0.0280	0.0000	110.4681	110.4681	0.0310	0.0000	111.2438
Total	0.0301	0.5952	0.8019	1.2600e-003	0.0134	0.0280	0.0415	2.0300e-003	0.0280	0.0301	0.0000	110.4681	110.4681	0.0310	0.0000	111.2438

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2800e-003	0.0435	0.0229	1.2000e-004	2.6600e-003	1.3000e-004	2.7900e-003	7.3000e-004	1.2000e-004	8.5000e-004	0.0000	12.8346	12.8346	1.6900e-003	0.0000	12.8768
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1700e-003	7.3000e-004	8.1500e-003	3.0000e-005	3.8400e-003	2.0000e-005	3.8600e-003	1.0200e-003	2.0000e-005	1.0400e-003	0.0000	2.9693	2.9693	5.0000e-005	0.0000	2.9706
Total	2.4500e-003	0.0442	0.0310	1.5000e-004	6.5000e-003	1.5000e-004	6.6500e-003	1.7500e-003	1.4000e-004	1.8900e-003	0.0000	15.8039	15.8039	1.7400e-003	0.0000	15.8473

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3.14 Site Finishing - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0118	0.1068	0.1636	2.4000e-004		5.7700e-003	5.7700e-003		5.3100e-003	5.3100e-003	0.0000	21.2825	21.2825	6.8800e-003	0.0000	21.4546
Total	0.0118	0.1068	0.1636	2.4000e-004	0.0000	5.7700e-003	5.7700e-003	0.0000	5.3100e-003	5.3100e-003	0.0000	21.2825	21.2825	6.8800e-003	0.0000	21.4546

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	4.1000e-004	4.5600e-003	2.0000e-005	2.1500e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.6598	1.6598	3.0000e-005	0.0000	1.6605
Total	6.6000e-004	4.1000e-004	4.5600e-003	2.0000e-005	2.1500e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.6598	1.6598	3.0000e-005	0.0000	1.6605

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3.14 Site Finishing - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9500e-003	0.1222	0.1833	2.4000e-004		6.9300e-003	6.9300e-003		6.9300e-003	6.9300e-003	0.0000	21.2825	21.2825	6.8800e-003	0.0000	21.4546
Total	5.9500e-003	0.1222	0.1833	2.4000e-004	0.0000	6.9300e-003	6.9300e-003	0.0000	6.9300e-003	6.9300e-003	0.0000	21.2825	21.2825	6.8800e-003	0.0000	21.4546

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	4.1000e-004	4.5600e-003	2.0000e-005	2.1500e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.6598	1.6598	3.0000e-005	0.0000	1.6605
Total	6.6000e-004	4.1000e-004	4.5600e-003	2.0000e-005	2.1500e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.6598	1.6598	3.0000e-005	0.0000	1.6605

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3.15 Paving (2nd phase) - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5100e-003	0.0556	0.0729	1.1000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0948
Paving	1.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.9900e-003	0.0556	0.0729	1.1000e-004		2.8400e-003	2.8400e-003		2.6100e-003	2.6100e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0948

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.1000e-004	1.2500e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4568	0.4568	1.0000e-005	0.0000	0.4570
Total	1.8000e-004	1.1000e-004	1.2500e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4568	0.4568	1.0000e-005	0.0000	0.4570

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3.15 Paving (2nd phase) - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-003	0.0565	0.0865	1.1000e-004		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0947
Paving	1.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.2800e-003	0.0565	0.0865	1.1000e-004		3.0500e-003	3.0500e-003		3.0500e-003	3.0500e-003	0.0000	10.0138	10.0138	3.2400e-003	0.0000	10.0947

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.1000e-004	1.2500e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4568	0.4568	1.0000e-005	0.0000	0.4570
Total	1.8000e-004	1.1000e-004	1.2500e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4568	0.4568	1.0000e-005	0.0000	0.4570

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0699	0.1962	0.7884	2.8000e-003	0.2715	2.2400e-003	0.2737	0.0730	2.0900e-003	0.0751	0.0000	256.5042	256.5042	9.1800e-003	0.0000	256.7337
Unmitigated	0.0699	0.1962	0.7884	2.8000e-003	0.2715	2.2400e-003	0.2737	0.0730	2.0900e-003	0.0751	0.0000	256.5042	256.5042	9.1800e-003	0.0000	256.7337

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Congregate Care (Assisted Living)	331.54	266.20	295.24	732,192	732,192
Parking Lot	0.00	0.00	0.00		
Total	331.54	266.20	295.24	732,192	732,192

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Congregate Care (Assisted Living)	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Congregate Care (Assisted Living)	0.470625	0.050338	0.265549	0.140745	0.017339	0.006996	0.024054	0.006595	0.004215	0.003104	0.009159	0.000488	0.000793
Parking Lot	0.470625	0.050338	0.265549	0.140745	0.017339	0.006996	0.024054	0.006595	0.004215	0.003104	0.009159	0.000488	0.000793

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	28.2946	28.2946	4.3200e-003	4.8000e-004	28.5456
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	28.2946	28.2946	4.3200e-003	4.8000e-004	28.5456
NaturalGas Mitigated	2.8500e-003	0.0243	0.0104	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.1863	28.1863	5.4000e-004	5.2000e-004	28.3538
NaturalGas Unmitigated	2.8500e-003	0.0243	0.0104	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.1863	28.1863	5.4000e-004	5.2000e-004	28.3538

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Congregate Care (Assisted Living)	528192	2.8500e-003	0.0243	0.0104	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.1863	28.1863	5.4000e-004	5.2000e-004	28.3538
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.8500e-003	0.0243	0.0104	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.1863	28.1863	5.4000e-004	5.2000e-004	28.3538

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Congregate Care (Assisted Living)	528192	2.8500e-003	0.0243	0.0104	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.1863	28.1863	5.4000e-004	5.2000e-004	28.3538
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.8500e-003	0.0243	0.0104	1.6000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	28.1863	28.1863	5.4000e-004	5.2000e-004	28.3538

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	255430	27.3316	4.1700e-003	4.6000e-004	27.5740
Parking Lot	9000	0.9630	1.5000e-004	2.0000e-005	0.9716
Total		28.2946	4.3200e-003	4.8000e-004	28.5456

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Congregate Care (Assisted Living)	255430	27.3316	4.1700e-003	4.6000e-004	27.5740
Parking Lot	9000	0.9630	1.5000e-004	2.0000e-005	0.9716
Total		28.2946	4.3200e-003	4.8000e-004	28.5456

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3716	0.0104	0.8998	5.0000e-005		4.9800e-003	4.9800e-003		4.9800e-003	4.9800e-003	0.0000	1.4698	1.4698	1.4200e-003	0.0000	1.5053
Unmitigated	0.3716	0.0104	0.8998	5.0000e-005		4.9800e-003	4.9800e-003		4.9800e-003	4.9800e-003	0.0000	1.4698	1.4698	1.4200e-003	0.0000	1.5053

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0530					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2915					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0272	0.0104	0.8998	5.0000e-005		4.9800e-003	4.9800e-003		4.9800e-003	4.9800e-003	0.0000	1.4698	1.4698	1.4200e-003	0.0000	1.5053
Total	0.3716	0.0104	0.8998	5.0000e-005		4.9800e-003	4.9800e-003		4.9800e-003	4.9800e-003	0.0000	1.4698	1.4698	1.4200e-003	0.0000	1.5053

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0530					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2915					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0272	0.0104	0.8998	5.0000e-005		4.9800e-003	4.9800e-003		4.9800e-003	4.9800e-003	0.0000	1.4698	1.4698	1.4200e-003	0.0000	1.5053
Total	0.3716	0.0104	0.8998	5.0000e-005		4.9800e-003	4.9800e-003		4.9800e-003	4.9800e-003	0.0000	1.4698	1.4698	1.4200e-003	0.0000	1.5053

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.9270	0.2579	6.1700e-003	17.2138
Unmitigated	8.9270	0.2579	6.1700e-003	17.2138

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	7.88364 / 4.97012	8.9270	0.2579	6.1700e-003	17.2138
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		8.9270	0.2579	6.1700e-003	17.2138

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Congregate Care (Assisted Living)	7.88364 / 4.97012	8.9270	0.2579	6.1700e-003	17.2138
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		8.9270	0.2579	6.1700e-003	17.2138

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.4122	1.3245	0.0000	55.5254
Unmitigated	22.4122	1.3245	0.0000	55.5254

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	110.41	22.4122	1.3245	0.0000	55.5254
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		22.4122	1.3245	0.0000	55.5254

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Congregate Care (Assisted Living)	110.41	22.4122	1.3245	0.0000	55.5254
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		22.4122	1.3245	0.0000	55.5254

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	12	50	0.73	Diesel
Fire Pump	1	0	0	50	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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10.1 Stationary Sources**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (50 - 75 HP)	4.9000e-004	1.6100e-003	1.7900e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2285	0.2285	3.0000e-005	0.0000	0.2293
Fire Pump - Diesel (50 - 75 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.9000e-004	1.6100e-003	1.7900e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2285	0.2285	3.0000e-005	0.0000	0.2293

11.0 Vegetation

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Cordilleras Health System Replacement Project EIR

Appendix D: Biological Resources Supporting Documents

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Cordilleras Health System Replacement Project EIR

Appendix D: Special Status Species Lists

Table D1. Special-status Plants Potentially Occurring in the Project Area (9 quad search)

Common Name (Scientific Name)	Listing Status^a	Geographic Distribution in California	Habitat Requirements	Life Form, Blooming Period	Potential to be impacted by the Project^b
San Mateo thorn-mint (<i>Acanthomintha duttonii</i>)	FE; SE; CRPR 1B.1	Located in San Mateo County.	Chaparral, valley and foothill grassland, or coastal scrub. Locally occurs in serpentine bunchgrass grassland; 50-300 m.	Annual herb, April - June	None. Suitable habitat is not present.
Blasdale's bent grass (<i>Agrostis blasdalei</i>)	CRPR 1B.2	Coastal areas from Mendocino to Monterey Counties.	Sandy or gravelly soil close to rocks; often in nutrient-poor soil with sparse vegetation; 5-365 m.	Perennial grass, May – July.	None. Suitable habitat is not present.
Franciscan onion (<i>Allium peninsulare</i> var. <i>franciscanum</i>)	CRPR 1B.2	Coastal mid California, from Monterey to Mendocino Counties.	Cismontane woodland, valley and foothill grasslands. Often on dry hillsides and in serpentine bunchgrass grasslands; 52-300 m.	Perennial bulbiferous herb, May - June	None. Suitable habitat is not present.
bent-flowered fiddleneck (<i>Amsinckia lunaris</i>)	CRPR 1B.2	Mid California, including Monterey, Santa Cruz, San Mateo, Marin, Alameda, Contra Costa, Napa, Lake and Colusa counties.	Coastal bluff scrub, cismontane woodland or valley and foothill grassland; 3-500 m.	Annual herb, March - June	Moderate
Anderson's manzanita (<i>Arctostaphylos andersonii</i>)	CRPR 1B.2	Mid California including Monterey, Santa Cruz, San Mateo, Santa Clara, and Alameda counties.	Broadleaved upland forest, mixed evergreen forest, North coast coniferous forest including open sites in redwood forest, chaparral; 60-760 m.	Perennial evergreen shrub, November - May	None. Manzanita species are not present in the project footprint.
Montara manzanita (<i>Arctostaphylos montaraensis</i>)	CRPR 1B.2	Endemic to San Mateo County.	Maritime chaparral or coastal; 150-500 m.	Perennial evergreen shrub, January - March	None. Habitat not present in the project footprint

Table D1. Special-status Plants Potentially Occurring in the Project Area (9 quad search)

Common Name (Scientific Name)	Listing Status^a	Geographic Distribution in California	Habitat Requirements	Life Form, Blooming Period	Potential to be impacted by the Project^b
Kings Mountain manzanita (<i>Arctostaphylos regismontana</i>)	CRPR 1B.2	Mid California including Santa Cruz, San Mateo, and Santa Clara counties.	Granite or sandstone outcrops in chaparral, coniferous, broadleaved upland and evergreen forests; 305-730 m.	Perennial evergreen shrub, January – April	None. Suitable habitat not present in the project footprint.
Coastal marsh milk-vetch (<i>Astragalus pynostachyus</i> var. <i>pynostachyus</i>)	CRPR 1B.2	Endemic to Humboldt, Marin and San Mateo Counties.	Coastal dunes (mesic), coastal scrub or marshes and swamps (coastal salt, streamside); 0-30 m.	Perennial herb, April-October	None. Coastal scrub or dune habitat not present.
Congdon's tarplant (<i>Centromadia parryi</i> ssp. <i>congdonii</i>)	CRPR 1B.1	Throughout western California from San Luis Obispo to Solano County.	Valley and foothill grasslands with alkaline or clay soils; 0-230 m.	Annual herb, May - November	None. Suitable habitat is not present in the project footprint.
Pappose tarplant (<i>Centromadia parryi</i> ssp. <i>parryi</i>)	CRPR 1B.2	Endemic to Butte, Colusa, Glenn, Lake, Napa, San Luis Obispo, San Mateo, Solano and Sonoma Counties.	Chaparral, coastal prairie, meadows and seeps, marshes and swamps (coastal salt) or valley and foothill grassland (vernally mesic); 2-420 m.	Annual herb, May - November	None. Suitable habitat is not present in the project footprint.
Point Reyes bird's beak (<i>Chloropyron maritimum</i> ssp. <i>palustre</i>)	CRPR 1B.2	Extant occurrences in Humboldt, Marin, San Francisco and Sonoma Counties.	Marshes and swamps (coastal salt); 0-10 m.	Annual herb (hemiparasitic), June-October	None. Suitable habitat is not present in the project footprint.
San Francisco Bay spineflower (<i>Chorizanthe cuspidata</i> var. <i>cuspidata</i>)	CRPR 1B.2	Endemic to Marin, San Francisco, San Mateo and possibly Sonoma Counties.	Coastal bluff scrub, coastal dunes, coastal prairie, coastal scrub on sandy soils; 3-215 m.	Annual herb, April-August	None. Suitable habitat is not present in the project footprint.
robust spineflower (<i>Chorizanthe robusta</i> var. <i>robusta</i>)	FE, CRPR 1B.1	Endemic to the San Francisco Bay Area and Monterey Coast.	Chaparral (maritime), cismontane woodland (openings), coastal dunes and coastal scrub in sandy or gravelly soils; 3-300 m.	Annual herb, April-September	None. Suitable habitat is not present in the project footprint.

Table D1. Special-status Plants Potentially Occurring in the Project Area (9 quad search)

Common Name (Scientific Name)	Listing Status^a	Geographic Distribution in California	Habitat Requirements	Life Form, Blooming Period	Potential to be impacted by the Project^b
Franciscan thistle (<i>Cirsium andrewsii</i>)	CNPS 1B.2	Endemic to Contra Costa, Marin, San Francisco and San Mateo Counties.	Broadleaved upland forest, coastal bluff scrub, coastal prairie or coastal scrub on mesic, sometimes serpentine sites; 0-150 m.	Perennial herb, March - July	None. Suitable habitat is not present in the project footprint.
Crystal Springs fountain thistle (<i>Cirsium fontinale</i> var. <i>fontinale</i>)	FE; SE; CRPR 1B.1	Found exclusively in San Mateo county.	Valley and foothill grasslands and chaparral including serpentine seeps and grassland; 45-175 m.	Perennial herb, May - October	None. Suitable habitat is not present in the project footprint.
San Francisco collinsia (<i>Collinsia multicolor</i>)	CRPR 1B.2	Mid-coastal California from Monterey to Marin county including Santa Clara county.	Moist shady woodland, closed-cone coniferous forests and coastal scrub. Occasionally found in serpentine; 30-250 m.	Annual herb, March – May	High. Suitable habitat is present in the project footprint. Observed to occur in the Cordilleras Creek channel in June 2019.
western leatherwood (<i>Dirca occidentalis</i>)	CRPR 1B.2	San Francisco Bay area including Santa Clara to Marin county and east to Alameda county.	Cool, moist slopes in foothill woodland and riparian forests. Mesic environments in broadleaved upland forests, chaparral and coniferous woodlands and mixed evergreen and oak woodlands; 25-425 m.	Perennial deciduous shrub, January – April.	High. Suitable habitat present in the project footprint. Known to occur at Edgewood Natural Preserve and Pulgas Ridge Open Space.
Ben Lomond buckwheat (<i>Eriogonum nudum</i> var. <i>decurrens</i>)	CRPR 1B.1	Endemic to Alameda, Santa Clara and Santa Cruz Counties.	Chaparral, cismontane woodland, lower montane coniferous forest (maritime ponderosa pine sandhills); 50-800 m.	Perennial herb, June-October	Low. Marginally suitable habitat present. Not known to occur within 5 miles of the project site.
San Mateo woolly sunflower (<i>Eriophyllum latilobum</i>)	FE, SE, CNPS 1B.1	San Mateo and Napa counties.	Cismontane and oak woodland, often on roadcuts; found on and off of serpentine and on grassy hillsides; 45-150m.	Perennial herb, April – June	Low. Marginally suitable habitat present. Not known to occur within 5 miles of the site.

Table D1. Special-status Plants Potentially Occurring in the Project Area (9 quad search)					
Common Name (Scientific Name)	Listing Status^a	Geographic Distribution in California	Habitat Requirements	Life Form, Blooming Period	Potential to be impacted by the Project^b
Hoover's button-celery (<i>Eryngium aristulatum</i> var. <i>hooveri</i>)	CRPR 1B.1	Endemic to Alameda, San Benito, Santa Clara, San Diego and San Luis Obispo Counties.	Vernal pools; 3-45 m.	Annual/perennial herb, July-August	None. Suitable habitat is not present in the project footprint.
Hillsborough chocolate lily (<i>Fritillaria biflora</i> var. <i>ineziana</i>)	CRPR 1B.1	Endemic to San Mateo County.	Cismontane woodland or valley and foothill grasslands on serpentine soils.	Perennial herb, March – April	None. Serpentine soils are not present in the project footprint.
Marin checker lily (<i>Fritillaria lanceolata</i> var. <i>tristulis</i>)	CRPR 1B.1	Found in Marin and San Mateo Counties.	Coastal bluff scrub, coastal prairie, and coastal scrub; 15-150 m.	Perennial bulbiferous herb, February – May.	None. Suitable habitat is not present in the project area.
fragrant fritillary (<i>Fritillaria liliacea</i>)	CRPR 1B.2	Found throughout northern and central California wherever there is suitable habitat.	Cismontane woodland and coastal scrub and prairie, in valley and foothill grasslands (often serpentine bunchgrass grassland); 3-410 m.	Perennial bulbiferous herb, February – April	None. Suitable habitat not present in the project footprint.
Short-leaved evax (<i>Hesperovax sparsiflora</i> var. <i>brevifolia</i>)	CRPR 1B.2	Occurs along the coast from the Oregon border to near Santa Cruz.	Coastal bluff scrub (sandy), coastal dunes or coastal prairie; 0-215 m.	Annual herb, March-June	None. Suitable habitat not present in the project footprint.
Marin western flax (<i>Hesperolinon congestum</i>)	FT; ST; CRPR 1B.1	Found only around the San Francisco peninsula in San Mateo and Marin Counties.	Chaparral, valley and foothill grassland, especially in serpentine bunchgrass grassland and serpentine barrens; 5-370 m.	Annual herb, April – July	None. Suitable habitat not present in the project footprint.
Kellog's horkelia (<i>Horkelia cuneata</i> var. <i>sericea</i>)	CRPR 1B.1	California endemic with extant occurrences in Monterey, Santa Barbara, Santa Cruz, San Luis Obispo and San Mateo Counties.	Closed-cone coniferous forest, chaparral (maritime), cismontane woodland, coastal dunes or coastal scrub in sandy or gravelly openings; 10-200 m.	Perennial herb, May-October	None. Suitable habitat not present in the project footprint.

Table D1. Special-status Plants Potentially Occurring in the Project Area (9 quad search)

Common Name (Scientific Name)	Listing Status^a	Geographic Distribution in California	Habitat Requirements	Life Form, Blooming Period	Potential to be impacted by the Project^b
Point Reyes horkelia (<i>Horkelia marinensis</i>)	CRPR 1B.2	Endemic to Mendocino, Marin, Santa Cruz, San Mateo and Sonoma Counties.	Coastal dunes, coastal prairie or coastal scrub on sandy soils; 5-350 m.	Perennial herb, May-September	None. Suitable habitat not present in the project footprint.
island tube lichen (<i>Hypogymnia schizidiata</i>)	CRPR 1B.3	Found in San Mateo, Marin, Mendocino, and Santa Barbara Counties.	Occurs on wood and bark of conifers and hardwood, 260-540 m.	Foliose lichen.	None. Suitable habitat not present in the project footprint.
perennial goldfields (<i>Lasthenia californica</i> ssp. <i>macrantha</i>)	CRPR 1B.2	Endemic to Mendocino, Marin, San Luis Obispo, San Mateo and Sonoma Counties.	Coastal bluff scrub, coastal dunes or coastal scrub; 5-520 m.	Perennial herb, January-November	None. Suitable habitat not present.
legenere (<i>Legenere limosa</i>)	CRPR 1B.1	Endemic to the Central Valley and Inner Coast Ranges from Redding to Salinas.	Vernal pools; 0-880 m.	Annual herb, April-June	None. Suitable habitat not present.
Coast yellow leptosiphon (<i>Leptosiphon croceus</i>)	CRPR 1B.1	California endemic; extant occurrences in Monterey and San Mateo Counties.	Coastal bluff scrub or coastal prairie; 10-150 m.	Annual herb, April-May	None. Suitable habitat not present.
rose leptosiphon (<i>Leptosiphon rosaceus</i>)	CRPR 1B.1	California endemic; extant occurrences in Marin and San Mateo Counties.	Coastal bluff scrub; 0-100 m.	Annual herb, April-July	None. Suitable habitat not present.
Crystal Springs lessingia (<i>Lessingia arachnoidea</i>)	CRPR 1B.2	Endemic to San Mateo county and Sonoma Counties.	Cismontane woodland, coastal scrub or valley and foothill grassland on serpentine soils, often on roadsides; 60 – 200m.	Annual herb, July – October	Low. Suitable vegetative habitat present, but serpentine soil habitat not present. Occurs in the area around the project site.

Table D1. Special-status Plants Potentially Occurring in the Project Area (9 quad search)

Common Name (Scientific Name)	Listing Status^a	Geographic Distribution in California	Habitat Requirements	Life Form, Blooming Period	Potential to be impacted by the Project^b
Ornduff's meadowfoam (<i>Limnanthes douglasii</i> ssp. <i>ornduffii</i>)	CRPR 1B.1	Endemic to San Mateo County.	Agricultural fields, meadows, and seeps; 5-15 m.	Annual herb, November – May	None. Suitable habitat is not present in the project footprint.
Indian Valley bush mallow (<i>Malacothamnus aboriginum</i>)	CRPR 1B.2	Endemic to western California from San Mateo to Paso Robles.	Chaparral, cismontane woodland. Rocky, granitic soils, often in burned areas; 150-1700 m.	Perennial deciduous shrub, April-October	None. Suitable habitat not present in the project footprint.
arcuate bush mallow (<i>Malacothamnus arcuatus</i>)	CRPR 1B.2	Found throughout the San Francisco peninsula and the south bay area throughout San Mateo and Santa Clara counties and Merced county.	Ultramafic chaparral, gravelly alluvium. Locally, in openings in mixed evergreen forests; 15-355 m.	Perennial evergreen shrub, April – September	None. Suitable habitat not present in the project footprint.
Davidson's bush mallow (<i>Malacothamnus davidsonii</i>)	CRPR 1B.2	Throughout California, found in San Mateo, Monterey, San Luis Obispo, and Los Angeles counties.	Sandy washes within coastal scrub, chaparral, and riparian woodland, at elevations 185 – 855m.	Perennial deciduous shrub, June – January	None. Suitable habitat not present in the project footprint.
Hall's bush mallow (<i>Malacothamnus hallii</i>)	CRPR 1B.2	Endemic to western California from Mendocino and Lake Counties to Stanislaus County.	Chaparral and coastal scrub; 10-760 m.	Perennial evergreen shrub, May-October	None. Suitable habitat not present in project footprint.
marsh microseris (<i>Microseris paludosa</i>)	CRPR 1B.2	California endemic; extant occurrences in Mendocino, Monterey, Marin, San Benito, Santa Cruz, San Luis Obispo and Sonoma Counties.	Closed-cone coniferous forest, cismontane woodland, coastal scrub or valley and foothill grassland; 5-300 m.	Perennial herb, April-June	Low. Suitably moist habitat not present in project footprint.

Table D1. Special-status Plants Potentially Occurring in the Project Area (9 quad search)

Common Name (Scientific Name)	Listing Status^a	Geographic Distribution in California	Habitat Requirements	Life Form, Blooming Period	Potential to be impacted by the Project^b
woodland woolythreads (<i>Monolopia gracilens</i>)	CRPR 1B.2	Through central California from San Mateo and Contra Costa counties south to San Luis Obispo county.	Grassy openings in chaparral, valley and foothill grasslands (serpentine), cismontane woodland, broadleafed upland forests, North coast coniferous forest. Sandy to rocky soils; 100-1200 m.	Annual herb, February – July	Moderate. Grassy openings and serpentine soils are not present in the project footprint. This species is known to occur near the project site.
Dudley's lousewort (<i>Pedicularis dudleyi</i>)	SR; CRPR 1B.2	Throughout central coastal California from San Mateo county south to San Luis Obispo county.	Chaparral, valley and foothill grassland and North coast coniferous forest, particularly deep shady woods and steep cut banks in older coast redwood forests and maritime chaparral; 60-900 m.	Perennial herb, April – June	None. Suitable habitat not present in the project footprint.
white-rayed pentachaeta (<i>Pentachaeta bellidiflora</i>)	FE; SE; CNPS 1B.1	California endemic; extant occurrences in San Mateo County.	Cismontane woodland or valley and foothills grassland (often serpentine); 35-620 m.	Annual herb, March – May	None. Suitable habitat not present in the project footprint.
white-flowered rein orchid (<i>Piperia candida</i>)	CRPR 1B.2	Through northern coastal California from Del Norte county south to Santa Cruz county.	Broadleafed upland forest, lower montane coniferous forest, North Coast coniferous forest. Often on mossy banks and rock outcrops or in the forest duff; 30-1310 m.	Perennial herb, May - September	None. Suitable habitat not present in the project footprint.
Choris' popcornflower (<i>Plagiobothrys chorisianus</i> var. <i>chorisianus</i>)	CRPR 1B.2	Endemic to coastal central California including Santa Cruz, San Francisco and San Mateo Counties.	Chaparral, coastal prairie or coastal scrub on mesic sites; 15-160 m.	Annual herb, March – June	None. Suitable habitat not present in the project footprint.

Table D1. Special-status Plants Potentially Occurring in the Project Area (9 quad search)

Common Name (Scientific Name)	Listing Status^a	Geographic Distribution in California	Habitat Requirements	Life Form, Blooming Period	Potential to be impacted by the Project^b
Oregon polemonium (<i>Polemonium carneum</i>)	CRPR 2B.2	Occurs in northern California and in the San Francisco Bay Area.	Coastal prairie, coastal scrub or lower montane coniferous forest; 0-1830 m.	Perennial herb, April-September	None. Suitable habitat not present in the project footprint.
Hickman's cinquefoil (<i>Potentilla hickmanii</i>)	FE, SE, CRPR 1B.1	Endemic to Sonoma, San Mateo and Monterey Counties.	Coastal bluff scrub, closed-cone coniferous forest, meadows and seeps (vernally mesic) or marshes and swamps (freshwater); 10-149 m.	Perennial herb, April-August	None. Suitable habitat not present in the project footprint.
Scouler's catchfly (<i>Silene scouleri</i> ssp. <i>scouleri</i>)	CRPR 2B.2	Present in coastal San Mateo, San Francisco, Marin, Sonoma, Humboldt, and Del Norte Counties.	Coastal bluff scrub, coastal prairie, and valley and foothill grassland; 3-315 m.	Perennial herb, June - August	Low. Potentially suitable habitat is present in the project area but no occurrences are documented within 5 miles of the project area.
San Francisco campion (<i>Silene verecunda</i> ssp. <i>verecunda</i>)	CRPR 1B.2	Endemic to Santa Cruz, San Francisco, San Mateo and Sutter Counties.	Coastal bluff scrub, chaparral, coastal prairie, coastal scrub or valley and foothills grassland on sandy soils; 30-645 m.	Perennial herb, March – August	None. Suitable habitat not present in the project footprint.
slender-leaved pondweed (<i>Stuckenia filiformis</i> ssp. <i>alpina</i>)	CRPR 2B.2	Occurs in Northern California in the Inner Coast Ranges and Sierra Nevadas from east of Redding to near San Jose.	Marshes and swamps (assorted shallow freshwater); 300-2150 m.	Perennial rhizomatous herb, May-July	None. Suitable habitat not present in the project footprint.
two-fork clover (<i>Trifolium amoenum</i>)	FE; CRPR 1B.1	Marin, Sonoma, Napa Solano, and San Mateo counties.	Coastal bluff scrub, valley and foothill grassland (sometimes serpentine), often open sunny sites; 5-415 m.	Annual herb, April – June	None. Suitable habitat not present in the project footprint.

Table D1. Special-status Plants Potentially Occurring in the Project Area (9 quad search)

Common Name (Scientific Name)	Listing Status^a	Geographic Distribution in California	Habitat Requirements	Life Form, Blooming Period	Potential to be impacted by the Project^b
saline clover (<i>Trifolium hydrophilum</i>)	CRPR 1B.2	Endemic to San Francisco Bay Area and surrounding counties.	Marshes and swamps, valley and foothill grassland (mesic, alkaline), vernal pools; 0-300 m.	Annual herb, April – June	None. Suitable habitat not present in the project footprint.
San Francisco owl's clover (<i>Triphysaria floribunda</i>)	CRPR 1B.2	Endemic to Marin, San Francisco and San Mateo Counties.	Coastal prairie, coastal scrub or valley and foothill grassland, usually serpentinite; 10-160 m.	Annual herb, April-June	None. Suitable habitat not present in the project footprint.
Coastal triquetrella (<i>Triquetrella californica</i>)	CRPR 1B.2	Found in scattered locations along the California coast.	Coastal bluff scrub or coastal scrub; 10-100 m.	Moss	None. Suitable habitat not present in the project footprint.

^a Status explanations:**Federal:**

FE = Listed as endangered under the Federal Endangered Species Act.

FT = Listed as threatened under the Federal Endangered Species Act.

State:

SE= Listed as endangered under the California Endangered Species Act.

ST= Listed as threatened under the California Endangered Species Act.

California Rare Plant Rank:

1B= Plants Rare, Threatened, or Endangered in California and Elsewhere

2B= Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere

0.1-Seriously threatened in California

0.2-Fairly threatened in California

^b Potential Occurrence explanations:**Present:** Species was observed on the project site, or recent species records (within five years) from literature are known within the project area.**High:** The CNDDDB or other reputable documents record the occurrence of the species off-site, but within a 5-mile radius of the project area and within the last 10 years. High-quality suitable habitat is present within the project area.**Moderate:** Species does not meet all terms of High or Low category. For example: CNDDDB or other reputable documents may record the occurrence of the species near but beyond a 5-mile radius of the project area, or some of the components representing suitable habitat are present within or adjacent to the project area, but the habitat is substantially degraded or fragmented.**Low:** The CNDDDB or other documents may or may not record the occurrence of the species within a 5-mile radius of the project area. However, few components of suitable habitat are present within or adjacent to the project area.**None:** CNDDDB or other documents do not record the occurrence of the species within or reasonably near the project area and within the last 10 years, and no or extremely few components of suitable habitat are present within or adjacent to the project area; or site is outside of specie's range.

Table D2. Special-status Animals Potentially Occurring in the Project Area

Common Name (Scientific Name)	Listing Status ^a	Geographic Distribution in California	Habitat Requirements	Potential to be impacted by the project ^b
Invertebrates				
San Bruno elfin butterfly (<i>Callophrys mossii bayensis</i>)	FE	Endemic to only three locations in San Mateo County: Milagra Ridge, San Bruno Mountain and Montara Mountain.	Coastal, mountainous areas with grassy ground cover. Colonies are located on steep, north-facing slopes within the fog belt. Larval host plant is <i>Sedum spathulifolium</i> .	None. Suitable habitat is not present in the project footprint. Host plant is not present. Highly restricted.
Bay checkerspot butterfly (<i>Euphydryas editha bayensis</i>)	FT	Restricted to native grasslands on outcrops of serpentine soil in the vicinity of San Francisco Bay.	<i>Plantago erecta</i> is the primary host plant, <i>Castilleja densiflorus</i> and <i>C. purpurascens</i> are secondary host plants.	None. Suitable habitat is not present in the project footprint. Host and nectar plants are not present.
Mission blue butterfly (<i>Plebejus icarioides missionensis</i>)	FE	Endemic to the grasslands of the San Francisco peninsula.	Three larval host plants: <i>Lupinus albifrons</i> , <i>L. variicolor</i> and <i>L. formosus</i> ; <i>L. albifrons</i> is favored.	None. Suitable habitat not present in the project footprint. Host plants are not present.
Mrytle's silverspot (<i>Speyeria zerene myrtleae</i>)	FE	Restricted to foggy coastal dunes/hills of the Point Reyes peninsula; extirpated from coastal San Mateo County.	Larval foodplant thought to be <i>Viola adunca</i> .	None. Suitable habitat not present in the project footprint.
Fish				
steelhead- Central California Coast DPS (<i>Oncorhynchus mykiss irideus</i>)	FT	This distinct population segment (DPS) includes all anadromous <i>O. mykiss</i> (steelhead) populations from the Russian River south to Soquel Creek and to, but not including, the Pajaro River. Populations in the San Francisco and San Pablo Basins are also included.	Adults migrate from a marine environment into the freshwater streams and rivers of their birth in order to mate (called anadromy). Unlike other Pacific salmonids, they can spawn more than one time (called iteroparity). Migrations can be hundreds of miles.	Low. Cordilleras Creek is not known to support steelhead. The project is adjacent to the uppermost reach of the creek, and a drop structure in the creek east of the property would be a barrier to steelhead migration, as well as the portion of the creek that is currently culverted around the existing building.

Table D2. Special-status Animals Potentially Occurring in the Project Area

Common Name (Scientific Name)	Listing Status ^a	Geographic Distribution in California	Habitat Requirements	Potential to be impacted by the project ^b
longfin smelt (<i>Spirinchus thaleichthys</i>)	ST	Occurs along the Pacific coast, including nearshore waters, estuaries, and lower portions of freshwater streams.	Found in open waters of estuaries, mostly in middle or bottom of water column. Prefer salinities of 15-30 parts per thousand, but can be found in completely freshwater to almost pure seawater. Euryhaline, nektonic, and anadromous.	None. Suitable habitat is not present in the project area and longfin smelt is not known to occur within five miles of the project site.
tidewater goby (<i>Eucyclogobius newberryi</i>)	FE CSSC	Occurs in brackish water habitats along the California coast from Agua Hedionda Lagoon, San Diego County to the mouth of the Smith River.	Found in shallow lagoons and lower stream reaches, they need fairly still but not stagnant water and high oxygen levels.	None. Suitable habitat is not present in the project area.
Amphibians and Reptiles				
California tiger salamander (<i>Ambystoma californiense</i>)	FT ST CSSC	Endemic to California, found in isolated populations the Central Valley and Central Coast ranges.	This species needs underground refuges, especially ground squirrel burrows, and vernal pools or other seasonal wetlands for breeding.	None. California tiger salamander is not known to occur within five miles of the project. The project property does not contain suitable breeding habitat for this species.
Santa Cruz black salamander (<i>Aneides flavipunctatus niger</i>)	CSSC	Found in San Mateo, Santa Clara, and Santa Cruz Counties.	Inhabits deciduous woodlands, coastal grasslands, and coniferous forests.	Low. The occurrence within 5 miles of the project site was last observed in the 1970s.
California giant salamander (<i>Dicamptodon ensatus</i>)	CSSC	Found from Mendocino to Monterey Counties, and inland to Napa County.	Larvae inhabit cold streams and the occasional lake or pond. Adults are found in wet forests near lakes and streams.	Low. Ephemeral stream habitat in and around the project site is likely unsuitable for adults or larvae.
foothill yellow-legged frog (<i>Rana boylii</i>)	CSSC	Occurs in the foothills of the western side of the Sierra Nevada mountains from the northern border of the state to the Tehachapi mountains. Recorded in Pescadero Creek in 1999.	Inhabits partly shaded, shallow streams and rifles with a rocky substrate in a variety of habitats. Need at least some cobble-sized substrate for egg laying, need at least 15 weeks for metamorphosis.	None. Not known to occur within 5 miles of the project, and suitable breeding habitat is not present on site.

Table D2. Special-status Animals Potentially Occurring in the Project Area

Common Name (Scientific Name)	Listing Status^a	Geographic Distribution in California	Habitat Requirements	Potential to be impacted by the project^b
California red- legged frog (<i>Rana draytonii</i>)	FT	Endemic to California and northern Baja California.	Inhabits lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	Low. CRF is recorded to occur 1.6 miles from the project, however all recorded locations are on the west side of I- 280, which poses a significant migratory barrier. The project site and adjacent open space do not contain suitable breeding habitat for CRF, and CRF has not been recorded in the CNDDB to occur in Cordilleras Creek.
red-bellied newt (<i>Taricha rivularis</i>)	CSSC	Coastal drainages along the coast of northern California. Isolated population in Santa Clara County.	Occurs near streams and moist environments in redwood forests and coastal woodlands. Streams with rocky substrate and moderate flows are typically used for breeding.	None. Not known to occur within 5 miles of the project area, and onsite habitat is likely unsuitable for breeding.
Western pond turtle (<i>Emys marmorata</i>)	CSSC	Occurs from Oregon border of Del Norte and Siskiyou Counties south along the coast to San Francisco Bay, inland through the Sacramento Valley and on western slope of Sierra Nevada.	Inhabits ponds, marshes, rivers, streams, and irrigation canals with muddy or rocky bottoms and with watercress, cattails, water lilies, or other aquatic vegetation in woodlands, grasslands, and open forests.	Low. WPT is known to occur within 2 miles of the project site, however all recorded locations are on the west side of I-280, which poses a significant migratory barrier. The project site and adjacent open space do not contain suitable breeding habitat for WPT, and WPT has not been recorded in the CNDDB to occur in Cordilleras Creek.

Table D2. Special-status Animals Potentially Occurring in the Project Area

Common Name (Scientific Name)	Listing Status ^a	Geographic Distribution in California	Habitat Requirements	Potential to be impacted by the project ^b
San Francisco garter snake (<i>Thamnophis sirtalis tetrataenia</i>)	FE SE	Occurs in the vicinity of freshwater marshes, ponds and slow moving streams in San Mateo County and extreme northern Santa Cruz County.	Prefers dense cover and water depths of at least one foot, upland areas near water are also very important.	Low. SFGS is known to occur within 2 miles of the project site, however all recorded locations are on the west side of I-280, which poses a significant migratory barrier. The project site and adjacent open space do not contain suitable breeding habitat for SFGS, which does, and SFGS has not been recorded in the CNDDB to occur in Cordilleras Creek.
Birds				
marbled murrelet (<i>Brachyramphus marmoratus</i>)	FT SE	Feeds near-shore and nests inland near coast from Half Moon Bay to Santa Cruz and from the Oregon border to Eureka.	Nests in redwood forest and Douglas-fir up to 6 miles inland.	None. No suitable habitat is present in the project area.
bald eagle (<i>Haliaeetus leucocephalus</i>)	FE CFP	Found throughout California with most breeding territories in the northern portion of the state.	Usually nests within 1 mile of large bodies of water with abundant fish, often in large, old-growth trees.	None. No suitable nesting or foraging habitat is present on site.
white-tailed kite (<i>Elanus leucurus</i>)	CFP	Year-round resident in lowland areas west of Sierra Nevada from head of Sacramento Valley south, including coastal valleys and foothills, to western San Diego County at Mexico border.	Inhabits low foothills or valley areas with valley or live oaks, riparian areas, and marshes near open grasslands are used for foraging.	Moderate. This species could occur in the Pulgas Ridge Open Space Preserve and Edgewood Natural Preserve. Potential nesting habitat occurs onsite.
Northern harrier (<i>Circus hudsonius</i>)	CSSC	Occurs throughout lowland California; has been recorded in fall at high elevations.	Inhabits grasslands, meadows, marshes, and seasonal and agricultural wetlands.	None. Suitable habitat for this species is not present.

Table D2. Special-status Animals Potentially Occurring in the Project Area

Common Name (Scientific Name)	Listing Status^a	Geographic Distribution in California	Habitat Requirements	Potential to be impacted by the project^b
golden eagle (<i>Aquila chrysaetos</i>)	CFP	Inhabits foothills and mountains throughout California.	Nests on cliffs and escarpments or in tall trees overlooking open country; forages in annual grasslands, chaparral, and oak woodlands with plentiful medium and large-sized mammals.	Low. Forage habitat is present on site; nesting habitat is not.
American peregrine falcon (<i>Falco peregrinus anatum</i>)	CFP	Occurs throughout the Central Valley, coastal areas and northern mountains of California.	Riparian areas, wetlands, lakes and other aquatic features provide important breeding and foraging habitat for this species. Nests on cliffs or man-made structures such as buildings and bridges; feeds on birds.	Moderate. Peregrine could use the project site for forage, and potentially use the existing building for nesting.
California Ridgway's rail (<i>Rallus obsoletus obsoletus</i>)	FE SE	This California endemic inhabits salt water and brackish marshes traversed by tidal sloughs in the vicinity of the San Francisco Bay.	Associated with abundant growths of pickleweed, but feeds away from cover on invertebrates from mud-bottomed sloughs.	None. Suitable habitat is not present on the project site or near the project site.
Western snowy plover (<i>Charadrius alexandrinuss nivosus</i> - Pacific population)	FT CSSC	Tthe Pacific population of western snowy plover occurs along the entire coastline of California.	Occurs on sandy beaches, salt pond levees and shores of large alkali lakes. Needs sandy, gravelly or friable soils for nesting.	None. Suitable habitat is not present on the project site or near the project site.
California least tern (<i>Sternula antillarum browni</i>)	FE SE	Nests along the coast from San Francisco Bay south to Northern Baja California.	Colonial breeder on bare or sparsely vegetated flat substrates, sandy beaches, alkali flats, landfills or paved areas.	None. Suitable habitat is not present on the project site or near the project site.
burrowing owl (<i>Athene cunicularia</i>)	CSSC	Year-round resident throughout much of the State, except the coastal counties north of Marin and mountainous areas.	Occurs in open, dry annual or perennial grasslands, deserts and scrublands characterized by low growing vegetation. Nests in small mammal burrows, particularly those of the California ground squirrel.	None. Suitable habitat does not occur within the project footprint.

Table D2. Special-status Animals Potentially Occurring in the Project Area

Common Name (Scientific Name)	Listing Status^a	Geographic Distribution in California	Habitat Requirements	Potential to be impacted by the project^b
short-eared owl (<i>Asio flammeus</i>)	CSSC	Year-round resident in certain parts of California; breeds regularly in the Great Basin region and locally in the Sacramento-San Joaquin River Delta, breeds periodically in the Central Coast and San Joaquin Delta.	Found in swamp lands, both fresh and salt, lowland meadows and agricultural fields. Tule patches or tall grass are needed for nesting and day time seclusion; nests on dry ground in depression concealed in vegetation.	None. Suitable habitat is not present on the project site or near the project site.
long-eared owl (<i>Asio otus</i>)	CSSC	Occurs throughout the state except in the Central Valley, in pockets along the coast and in the far central south.	Inhabits riparian bottomlands grown to tall willows and cottonwoods and belts of live oak parallel to stream courses. Require adjacent open land productive of mice and the presence of old nests of crows, hawks or magpies for breeding.	None. Suitable habitat is not present on the project site or near the project site. Not recorded in the CNDDB to occur within 5 miles of the project site.
bank swallow (<i>Riparia riparia</i>)	ST	Occurs primarily around the remaining natural river banks of the Sacramento and Feather Rivers in the Sacramento Valley.	Colonial nester, nests primarily in riparian and other lowland habitats west of the desert. Requires vertical banks/cliffs with fine textured/sandy soils near streams, rivers, lakes or ocean to dig nesting hole.	None. Suitable habitat is not present on the project site or near the project site.
saltmarsh common yellow throat (<i>Geothlypis trichas sinuosa</i>)	CSSC	This subspecies of the common yellow throat (<i>Geothlypis trichas</i>) is endemic to the fresh and salt water marshes of the San Francisco Bay region.	Requires thick, continuous cover down to water surface for foraging; and tall grasses, tule patches and willows for nesting.	None. Suitable habitat is not present on the project site or near the project site.
Alameda song sparrow (<i>Melospiza melodia pusillula</i>)	CSSC	This California endemic subspecies of song sparrow (<i>Melospiza melodia</i>) is a resident of salt marshes bordering south arm of San Francisco Bay.	Inhabits <i>Salicornia</i> marshes, nests low in <i>Grindelia</i> bushes (high enough to escape high tides) and in <i>Salicornia</i> .	None. Suitable habitat is not present on the project site or near the project site.

Table D2. Special-status Animals Potentially Occurring in the Project Area				
Common Name (Scientific Name)	Listing Status^a	Geographic Distribution in California	Habitat Requirements	Potential to be impacted by the project^b
Mammals				
pallid bat (<i>Antrozous pallidus</i>)	CSSC	Throughout California except high Sierra from Shasta to Kern Counties and northwest coast, primarily at lower and mid-elevations	Inhabits deserts, grasslands, shrublands, woodlands and forests; most common in open dry habitats with rocky areas for roosting. Roosts must protect bats from high temperatures, very sensitive to disturbance of roosting sites.	Low. The project site contains suitable roost and forage habitat; this species is not recorded as occurring within 5 miles of the project site in the CNDDB.
big free-tailed bat (<i>Nyctinomops macrotis</i>)	CSSC	Rare in California; found only in low lying arid areas of southern California and as a vagrant elsewhere.	Needs high cliffs or rocky outcrops for roosting, feeds principally on large moths.	Low. The project site does not include high cliffs or rocky outcrops.
Townsend's big-eared bat (<i>Corynorhinus townsendii</i>)	CSSC	Found in a patchy distribution across many habitat types	Roosts in caves or cave-like structures; roost temperature may be critical. Forages along stream edges in wooded areas.	Low. Roost habitat may not occur in the area. The project contains suitable foraging habitat.
San Francisco dusky-footed woodrat (<i>Neotoma fuscipes annectens</i>)	CSSC	This California endemic is found throughout the San Francisco Bay area in grasslands, scrub and wooded areas.	Forest habitats of moderate canopy and moderate to dense understory. May prefer chaparral and redwood habitats. Constructs nests of shredded leaves, grass and other material. May be limited by availability of nest-building materials.	Present.
saltmarsh harvest mouse (<i>Reithrodontomys raviventris</i>)	FE SE	This California endemic occurs only in the saline emergent wetlands of the San Francisco Bay and its tributaries.	Pickleweed is the primary habitat of this non-burrowing mammal. It builds loosely organized nests and requires higher areas to escape flooding.	None. Suitable habitat is not present on the project site or near the project site.
salt-marsh wandering shrew (<i>Sorex vagrans halicoetes</i>)	CSSC	Occurs in Salt marshes of the south arm of San Francisco Bay.	Medium high marsh 6-8 ft above sea level where abundant driftwood is scattered among <i>Salicornia</i> .	None. Suitable habitat is not present in the project area.

Table D2. Special-status Animals Potentially Occurring in the Project Area

Common Name (Scientific Name)	Listing Status^a	Geographic Distribution in California	Habitat Requirements	Potential to be impacted by the project^b
American badger (<i>Taxidea taxus</i>)	CSSC	Occur throughout California and the western United States and Canada.	Inhabits a variety of open habitats with friable soils.	None. There are no documented occurrences within 5 miles of the project site.
^a Status explanations: Federal: FE = Listed as endangered under the Federal Endangered Species Act. FT = Listed as threatened under the Federal Endangered Species Act. State: SE= Listed as endangered under the California Endangered Species Act. ST= Listed as threatened under the California Endangered Species Act. CSSC = Species of Special Concern designated by California Department of Fish and Game CFP = Fully Protected Species under California Fish and Game Code.		^b Potential Occurrence explanations: Present: Species was observed on the project site, or recent species records (within five years) from literature are known within the project area. High: The CNDDDB or other reputable documents record the occurrence of the species off-site, but within a 5-mile radius of the project area and within the last 10 years. High-quality suitable habitat is present within the project area. Moderate: Species does not meet all terms of High or Low category. For example: CNDDDB or other reputable documents may record the occurrence of the species near but beyond a 5-mile radius of the project area, or some of the components representing suitable habitat are present within or adjacent to the project area, but the habitat is substantially degraded or fragmented. Low: The CNDDDB or other documents may or may not record the occurrence of the species within a 5-mile radius of the project area. However, few components of suitable habitat are present within or adjacent to the project area. None: CNDDDB or other documents do not record the occurrence of the species within or reasonably near the project area and within the last 10 years, and no or extremely few components of suitable habitat are present within or adjacent to the project area.		

Cordilleras Health System Replacement Project EIR

Appendix G: Hazardous Materials Investigation

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ENVIRONMENTAL, INC.

June 2, 2014

Mr. Rob Kalkbrenner
Capital Projects Manager
Facilities Planning, Design & Construction
County of San Mateo
555 County Center - Fifth Floor
Redwood City, CA 94063

RE: Summary Report of Hazardous Building Materials
Cordilleras Facility, 200 Edmonds, Redwood City, CA
SCA Project No.: F11312.02

Dear Mr. Kalkbrenner:

This letter summarizes the results of a hazardous materials investigation at the Cordilleras Facility located at 200 Edmonds, Redwood City. Sampling was conducted by SCA Environmental, Inc. (SCA) on May 1-6, 2014 by Daniel Leung, CSP, CAC (#07-4175), CDPH. The investigation included the following:

- An inspection and survey of all areas of the Cordilleras Facility, including the nearby Pump House and Water Tower.
- Sampling and non-destructive testing for lead-containing coatings, polychlorinated biphenyls, and asbestos-containing materials (ACM).
- Assessment to quantify possible polychlorinated biphenyl (PCB) lighting ballasts and mercury-containing fluorescent lighting fixtures.
- Visual identification of possible PCB-containing transformers.

The survey was limited to the interior and exterior areas of the Cordilleras Mental Health Facility (e.g., interior rooms/areas of Basement-3rd floors, roof, volleyball court, parking area, etc.), the Pump House, and the Water Tank. The newly constructed Fire Station and Youth Center were not included in this survey.

The following summarizes our findings.

Asbestos Hazards

Summary of Standards

Certain existing building components or materials, which may be impacted by the planned demolition or extensive renovation of the Cordilleras facility, are known or presumed to contain asbestos.

Asbestos-containing material (ACM) is defined by EPA regulations as those substances containing greater than 1% asbestos. The Bay Area Air Quality Management District (BAAQMD) and the Cal/EPA provide local enforcement of these regulations. Friable ACM with greater than 1% asbestos must be abated prior to demolition or renovation, and is required to be disposed of as asbestos waste. Prior to renovation or demolition, the BAAQMD requires abatement of friable ACM, as well as non-friable ACM that may become friable during renovation (practically, this means all non-friable ACM).

Federal Occupational Safety and Health Administrations (OSHA) regulations, locally enforced by CAL/OSHA, define ACM as substances that contain greater than 1% asbestos. Cal/OSHA also mandates special training, medical exams, personal protective equipment and record keeping for employees working with asbestos-containing construction materials (ACCM), or materials that contain <0.1% asbestos. If a material contains less than 1% asbestos but more than 0.1% asbestos, the material may be disposed of as non-ACM, but the Cal/OSHA requirements would still have to be followed regarding workers' protection and Contractor licensing.

"Trace" materials (i.e., materials <1% asbestos) are currently regulated in California and require the following:

- Removal using wet methods;
- Prohibition of removal using abrasive saws or methods which would aerosolize the material;
- Prompt clean-up of the impacted zone, using HEPA-filtered vacuums, as applicable;
- Employer registration by Cal/OSHA for removal quantities exceeding 100 sq. ft. per year; and
- Cal/OSHA Carcinogen Registration by the Demolition or Abatement Contractor impacting such materials.

Methodology

Sampling activities were conducted per industry standards and the Federal AHERA regulations (40 CFR Part 763), and sample locations were documented on field diagrams (Attachment B). Under these procedures, the first sample is analyzed. If it tests positive for asbestos (>1%), the analysis is suspended for further samples of that material. If the first sample tests only trace positive (between 0.1 to 1%), or negative, however, the second and third samples are analyzed sequentially, in order to determine the possible presence of asbestos. If all three samples test negative, the material is considered as non-asbestos. Certain materials, such as plasters and gypsum board systems, are frequently non-homogeneous in content. For such materials, multiple samples were gathered at various points in the Buildings, with all samples analyzed to determine the possible presence of asbestos.

All building material samples collected were submitted to Asbestos TEM Laboratory in Berkeley, California for analysis by polarized light microscopy with dispersion staining (DS/PLM).

Results

SCA has entered the sampling data from the above-referenced structure into **Table 1: Material Matrix Report (MMR)**. A printout which shows detailed sample results, locations, and quantity estimates is included in Attachment A of this report. Materials designated as AAA are assumed to contain asbestos, and materials designated as NNN are considered non-suspect materials. Sample locations are included on the sample location diagrams in Attachment B.

1. The MMR (Attachment A) lists positive and negative materials, the locations where each material is present, and the quantity estimates in each location.
2. SCA completed an inspection and survey of all areas at the facility including the water tank and pump house. All suspect materials identified were sampled or listed as assumed asbestos-containing, as destructive sampling was not included in the scope of services.
3. Note that as the survey was non-destructive, various materials were assumed asbestos containing and not sampled. Furthermore, as the building is still in use, SCA did not perform destructive sampling to inspect wall cavities, above ceilings, etc. Quantities

listed in the matrices are for visible quantities and estimates identified from review of as-built drawings supplied by the County of San Mateo. SCA makes no warranties or representations regarding materials or quantities that may be present behind wall cavities, above ceilings, etc.

4. As destructive testing was excluded from the scope of work, the following items were to be assumed asbestos-containing during the survey: vapor barriers under concrete slab/restrooms, fire doors, ceramic tiles, etc. SCA has listed these materials as assumed asbestos-containing items in the attached MMR and Abatement Cost Estimate. The County of San Mateo should be aware that these materials are required to be tested prior to renovation or demolition of the buildings. SCA recommends that the destructive testing and testing of inaccessible/assumed materials be performed prior to preparation of abatement specifications, if possible, or that the specifications be prepared with line items for all inclusive unit costs for abatement in the event the materials are found to contain asbestos.

Please note the following with respect to the assumed materials:

- Based on review of the as-built drawings, lightweight concrete is present on the roof of the building. SCA collected samples of the surface of the lightweight concrete where accessible. Although sample results were reported as negative for asbestos, additional core sampling would be required to determine asbestos content for all layers of concrete and on all roof decks where lightweight concrete is present. If found to be asbestos-containing, abatement of the lightweight concrete will increase abatement costs significantly. SCA has provided an estimated cost for abatement in the event that asbestos-containing lightweight concrete is found during destructive testing prior to demolition or renovation of the structure.
- It is not uncommon for the aggregate and sand components of concrete to contain asbestos. Concrete is considered a manufactured material and is subject to CalOSHA and NESHAPS regulations governing worker protection, abatement and disposal. SCA collected samples of the surface of various concretes at the facility. Although initial surface sample results were reported as negative for asbestos, additional core sampling and analysis of all layers would be required to determine asbestos content for all layers of concrete for the various building systems.

It is not uncommon for structures to have a vapor barrier assembly under restrooms and under the concrete foundation slab, as well as the subgrade walls. Given the construction date of the building, this vapor barrier system, if present, could consist of a tar-like substance with waterproofing membrane that often contains asbestos. As destructive testing was excluded from the scope of work, SCA has assumed that a vapor barrier system may be present under the building concrete slab, on the basement (subgrade) perimeter sidewalls, and under areas with drains within the facilities (e.g., restrooms, kitchens, etc.). A coring contractor should be retained prior to demolition of the structures to obtain a continuous core through these areas to verify the presence of a vapor barrier system. If present, the material should be tested to verify asbestos content. If the material is found to contain asbestos, the demolition contractor should possess asbestos-registration and proper training, and such concrete should not be recycled.

If found to be asbestos-containing, abatement of these materials will increase abatement costs significantly. SCA has provided an estimated cost for abatement of

these items in the event that asbestos-containing concrete, vapor barriers, or aggregates are found during destructive testing prior to demolition or renovation of the structure.

5. SCA assumes that in the future, this survey report may be referenced by Abatement Contractors providing bids for abatement of materials at the surveyed site. SCA requests that this text portion of the report be provided to bidding contractors for review. Bidding Contractors are hereby notified that the quantities included herein are estimates only, and all quantities should be field verified by the Contractor for any budgeting, planning or bidding decisions.

Naturally-Occurring Asbestos in Soil

Sampling to verify the presence of naturally-occurring asbestos in Serpentine soil was not included in this scope of work. The County of San Mateo should be aware that naturally-occurring asbestos may be present at the site and should be addressed during the geotechnical study or prior to commencement of renovation activities. If present, the requirements issued by the California Air Resources Board (CARB) and BAAQMD should be implemented.

Lead Hazards

Summary of Standards

Certain existing painted or coated surfaces to be impacted by the proposed renovation or demolition of the facility are known or suspected to contain lead.

Since elemental lead is a suspect carcinogen and known teratogen and neurotoxic in high doses, lead-containing materials need to be identified prior to the on-set of demolition activities. Using combinations of engineering controls and personal protective equipment, lead-containing materials can be removed safely. Several sources of applicable standards are listed as follows:

1. Lead exposures in the workplace are regulated by Cal/OSHA, which has certain regulatory requirements for identifying and controlling potential lead exposures. Currently applicable regulations for the construction industry have been adopted by Cal/OSHA (8 CCR 1532.1) from the Federal OSHA regulations. The current OSHA 8-hour Permissible Exposure Level (PEL) for lead is $50 \mu\text{g}/\text{m}^3$.
2. Current EPA and Cal/EPA regulations do not require LBP to be removed prior to demolition, unless loose and peeling. Provided that the paints are securely adhered to the substrates (i.e., non-flaking or non-peeling), disposal of intact demolition debris can generally be handled in California as non-hazardous and non-RCRA waste. Disposal requirements are as follows:

Classification and Disposal of Inorganic Lead Wastes in California								
Standards	TTLc	Leachable Lead						
Concentrations	1000 mg/kg	5 mg/L						
	Test Methods & Results			Classifications			Stabilization Required	Landfill Class
Condition	Total Pb (mg/kg)	STLC Pb (mg/L)	TCLP Pb (mg/L)	Non-haz waste	CalHaz (Non-RCRA)	Fed Haz (RCRA)		
1a	<50 (a1)	NA		Yes	no	no	no	III
1b	<100 (a2)		NA	Yes	no	no	no	III
2a	50 to <1000	<5	<5	Yes (c)	no	no	no	III or II (d)
2b		>5	<5	no	Yes	no	no	I
2c		>5	>5	no	Yes	Yes	Yes	I
2d (b)		<5	>5	no	no	Yes	Yes	I
3a	>1000	<5	<5	No	Yes	No	no	I
3b		>5	<5	no	Yes	no	no	I
3c		>5	>5	no	Yes	Yes	Yes	I
3d (b)		<5	>5	no	no	Yes	Yes	I
4	any	any	>5	no	no	Yes	Yes	I

(a1) 50 = 10 x 5 (STLC for Pb). Per WET method, impossible to exceed STLC even if 100% soluble.
(a2) 100 = 20 x 5 (TCLP for Pb). Per TCLP method, impossible to exceed STLC even if 100% soluble.
(b) Physically impossible due to the stronger acid used in WET than TCLP.
(c) Landfills will likely require documentation that TCLP is <5, even though TCLP is almost always less than WET.
(d) Landfill dependent, function of permit, landfill liner, or landfill policy

In California, loose and peeling LBP or other wastes require characterization and testing for leachability to determine if the materials would be classified as a RCRA or California hazardous waste.

- The major definitions of LBP or lead-coated surfaces are listed as follows:
 - HUD defines LBP as paint that contains either $\geq 0.5\%$ by weight of lead, or $\geq 1 \text{ mg/cm}^2$.
 - Consumer Product Safety Commission (CPSC) prohibits the manufacturing of paint that contains more than 90 ppm of lead.
- Lead is on the "Proposition 65" list, based on its potential to cause reproductive harm.
- The California Department of Public Health (CDPH) requires the use of Certified Lead Workers and Supervisors for lead abatement projects at public buildings with a greater than 20 years expected life or whenever work is completed specifically to abate Lead-Based paints as defined by HUD. The CDPH certification requirements do not apply to industrial sites; however, dust controls and personnel protection are still required under 17 CCR Section 35001 through 36100.

Methodology

SCA collected a number of bulk samples for analysis to determine the lead content of these materials. Materials included lead paints and coatings and 9"x9" vinyl floor tiles.

Lead samples collected were submitted to McCampbell Analytical, Inc. in Pittsburg, California for analysis for total lead content by Flame Atomic Absorption (Flame AA).

Results

SCA has entered the lead sampling data into Table 1: Material Matrix Report included in Attachment A. The MMR shows detailed sample results and locations of the sampled materials. Sample locations are included on the sample location diagrams in Attachment B.

1. Lead concentrations for most paints ranged from 5.6 milligrams per kilogram (mg/kg) to 350,000 mg/kg, with most paints having lead content above the laboratory detection limits.
2. Lead was also identified in 9"x9" asbestos-containing vinyl floor tiles present throughout the building (97 mg/kg). As the result exceeded 10-times the soluble threshold limit concentration (STLC) of 5 mg/L, Waste Extraction Test (WET) and Toxicity characteristic leaching procedure (TCLP) were performed. Results were found to be 0.56 mg/L and <0.2 mg/L, respectively, indicating that the tiles would not be considered a RCRA waste. Note that as these tiles contain >1% asbestos, the tiles are required to be abated prior to renovation or demolition of the structure.
3. Lead sheeting is known to be present in the E. Offices Area on the 2nd Floor of the building. This area was formerly used as X-ray clinics and dental areas, and visual evidence of lining within the walls and doors was noted during the inspection. As the survey was non destructive in nature, removal of wall sections to access the sheeting was not performed. SCA recommends that destructive sampling be performed prior to renovation or demolition of the building to determine the presence and lead content of this material. SCA has provided an estimated cost for abatement in the event that the material is found to contain lead during destructive testing prior to demolition or renovation of the structure.

As lead was identified in some paints and a detailed inventory of paints was not performed for the project, for the purpose of complying with the Cal/OSHA lead in construction regulation (8 CCR 1532.1), all coated surfaces shall be considered to contain some lead and require demolition dust control procedures for compliance with Cal/OSHA's Construction Lead Standard under 8 CCR 1532.1. The aforementioned regulation contains requirements for lead air monitoring, work practices, respiratory protection, etc., that are triggered by the presence of even very low levels of lead.

In addition, based on the California Total Threshold Level Concentration (TTLC) hazardous waste standard, the paints may be classified as hazardous wastes. Additional sampling and analysis for leachable lead content by the Contractor or Consultant during demolition will be required for waste characterization.

Polychlorinated Biphenyls (PCBs) & Mercury-Containing Items

Methodology

SCA collected representative samples of caulks and putties to determine PCB content. These samples were analyzed by EPA Method 8082 at McCampbell Analytical, Inc. in Pittsburg, CA and reported in milligrams per kilogram (mg/kg).

SCA also quantified lighting ballasts that were observed in conjunction with mercury-containing, fluorescent lighting fixtures in various locations.

Results

Quantities of both PCB ballasts and fluorescent tubes in various locations are included in Table 1: Material Matrix Report included in Attachment A.

1. No PCBs were identified in any caulks or putties sampled by SCA.
2. Various lighting ballasts were identified throughout the building. Cal/EPA regulates disposal of both PCBs and mercury-containing materials. To reduce liability concerns, many building owners opt to have PCB ballasts incinerated, with a record of destruction

- generated. A slightly less expensive approach involves recycling of the components (and incineration of the small amount of PCBs separately). However, this method may pose liability concerns for building owners.
3. Various mercury-containing fluorescent tubes were identified throughout the building. Recycling vendors for reclaiming the mercury vapor are commonly available for services at approximately \$0.15 per lineal foot. Note that costs for fluorescent tube disposal do not tend to be significant compared to overall abatement costs.
 4. SCA also noted three (3) transformers at the property. These transformers are owned by PG&E. As the units were functioning at the time of the investigation, sampling of transformer fluids to determine PCB content was not performed. No visual evidence of staining was noted during the investigation. As the units are owned by PG&E, disposal of the PCB-containing fluids, if present, would be the responsibility of PG&E.

If you have any questions, please contact us.

Sincerely,
SCA ENVIRONMENTAL, INC.



Christina Codemo, CHMM, REPA, CAC
Sr. Consultant



Chuck Siu, CIH, PE, CSP, CAC, CDPH
President

Appendices:

Appendix A:	Materials Matrix Report
Appendix B:	Sample Location Drawings
Appendix C:	Asbestos Laboratory Results
Appendix D:	PCB & Lead Laboratory Results
Appendix E:	Abatement Cost Estimates

Appendix A

Materials Matrix Report

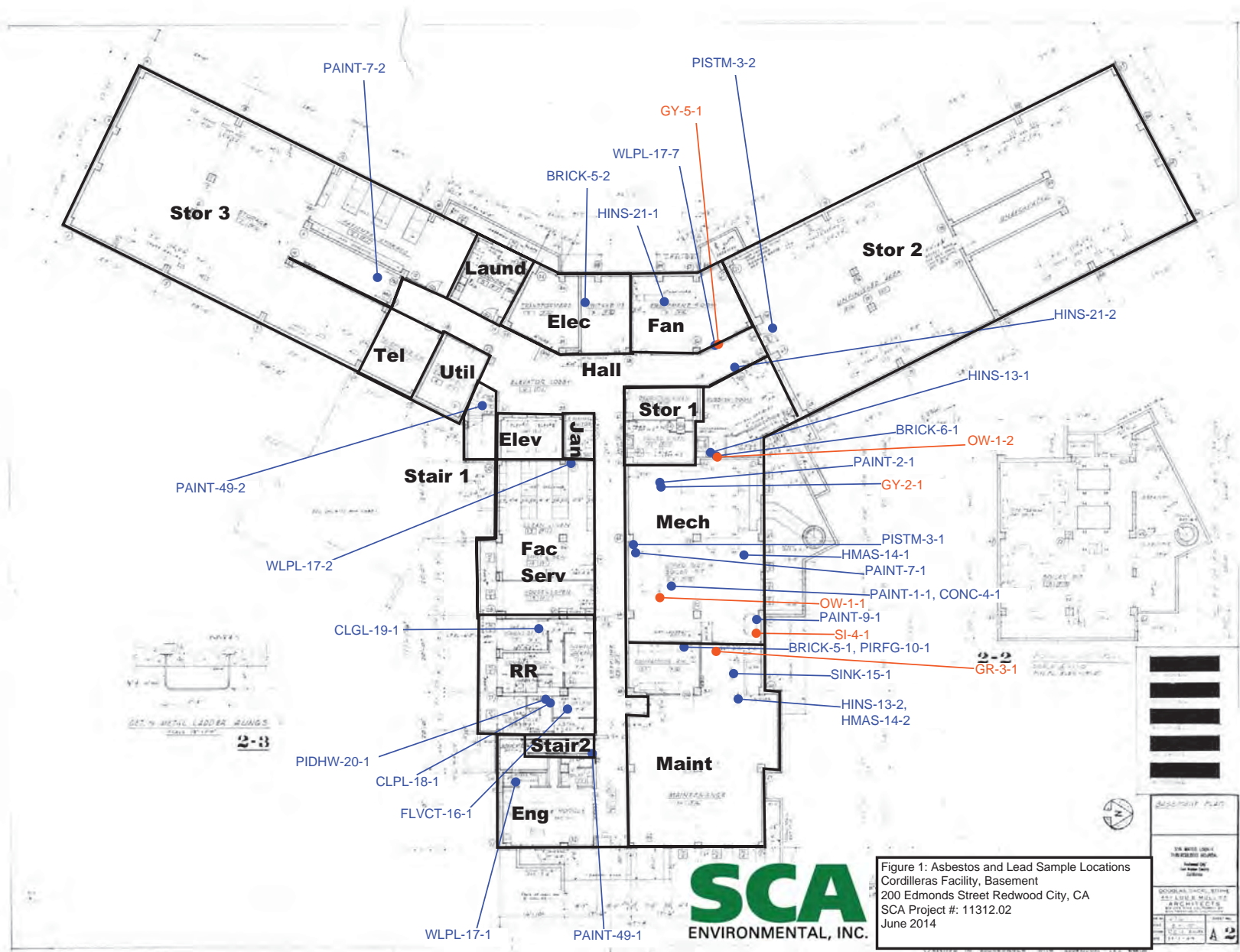
TABLE 1: MATERIAL MATRIX REPORT: 200 Edmonds Road, Redwood City, CA
Page 3 of 4

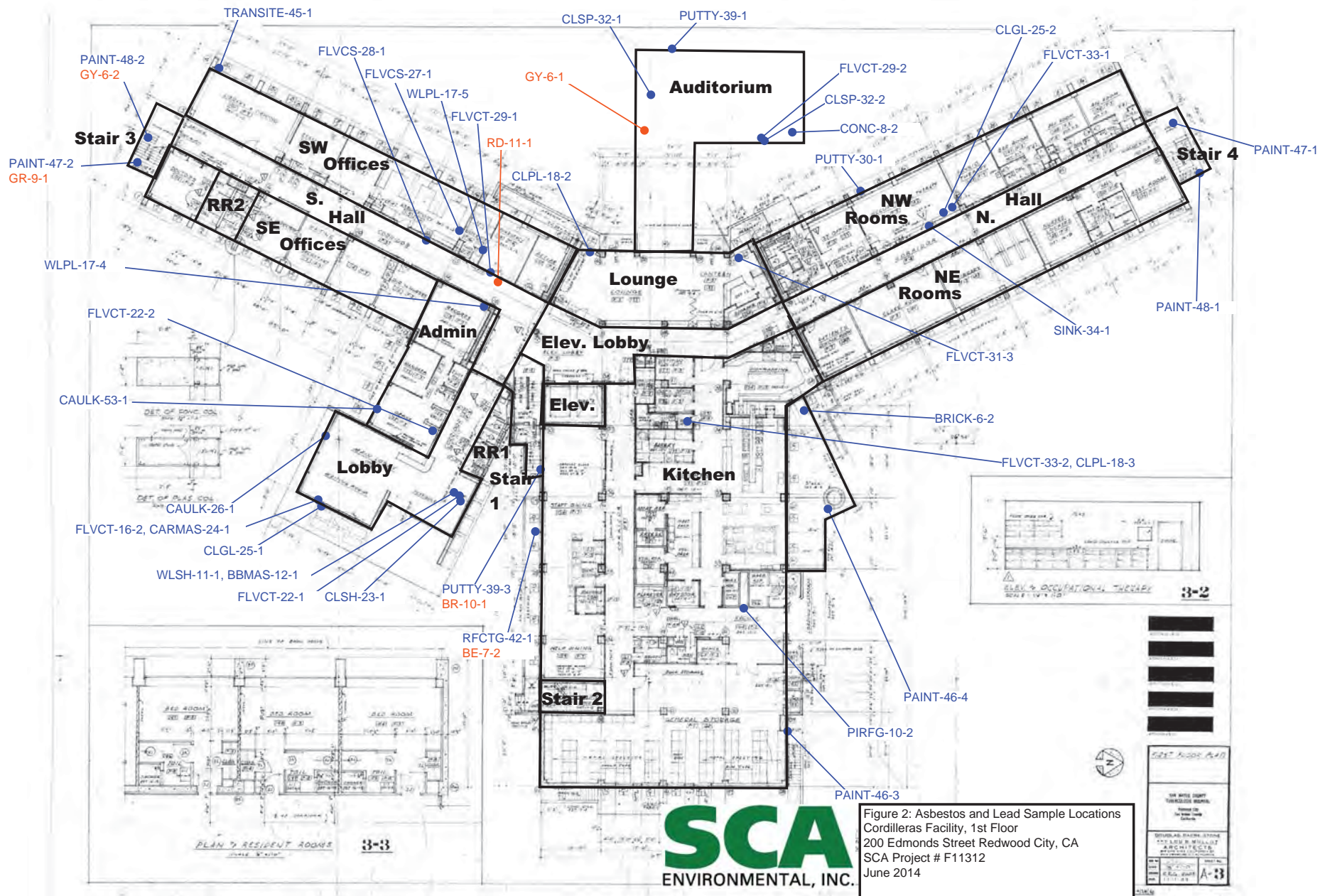
Notes: ND=none detected NA=not analyzed CH=chrysotile PNQ=present, but not quantified

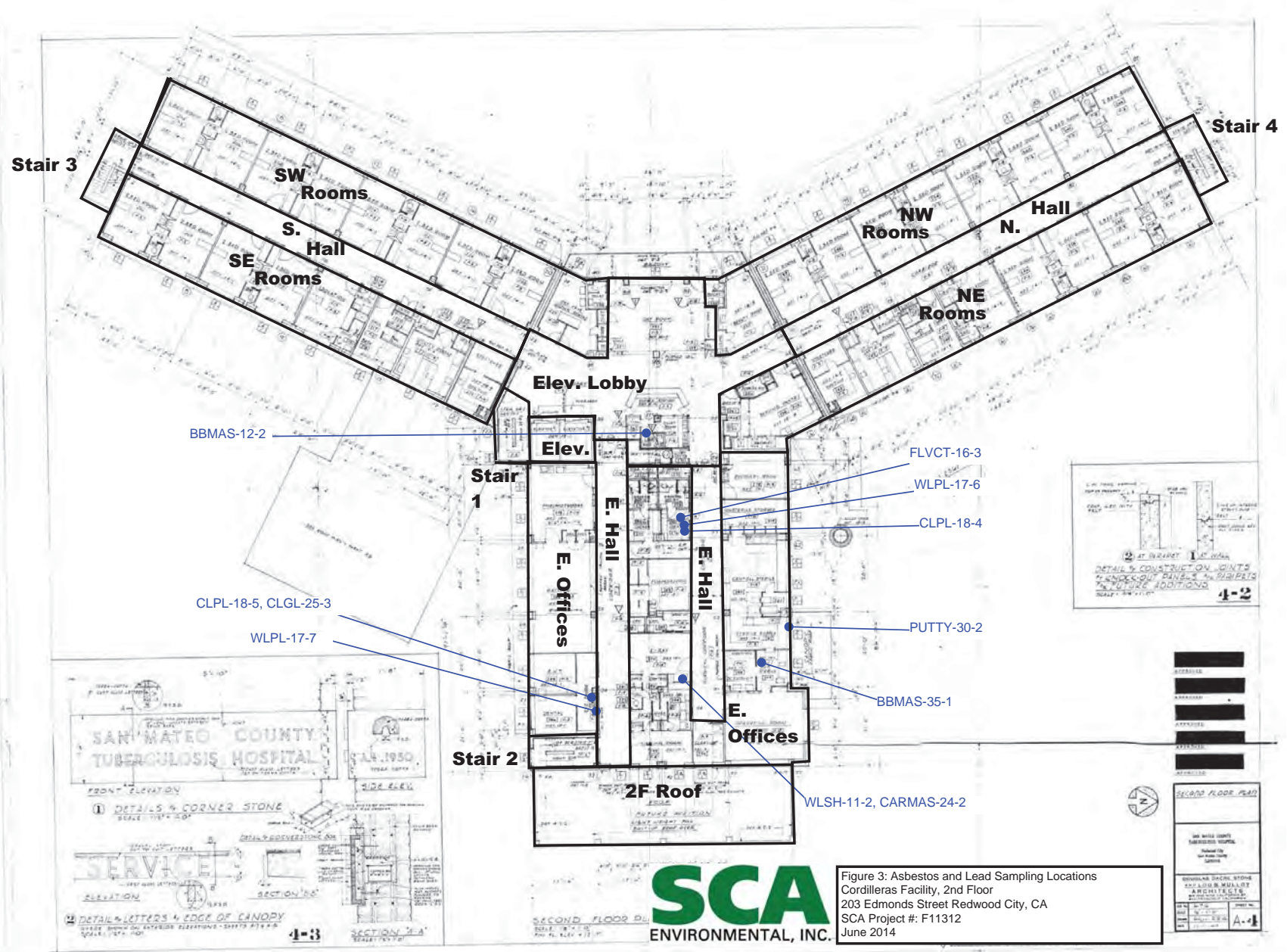
Room ID----- Material ID	Components	Asbestos: Positive, Negative, Trace, Assumed	3rd Fl								Other areas				Roof & Exterior											Other areas		TOTAL +/- 15%
			NW Rms	NE Rms	N Hall	SW Rms	SE Rms	S Hall	E Rms	Elev Lobby	Stair 1	Stair 2	Stairs 3 & 4	Elev	Elev Rm	PH Fan Room	Exterior	PH Roof	Elev Rm Roof	Main Roof	3F Roof Deck	2F Roof	1F Roof	Auditorium Roof	Overhang/ Canopy	Water tank	Pump House	
FLVCT-31	12"x12" blue with white streaks vinyl floor tile (-) with yellow glue (-)	Negative																										1080
CLSP-32	12"x12" off-white splined ceiling tiles with fissures																											1050
FLVCT-33	12"x12" beige with brown and tan streaks vinyl floor tile (-) with yellow glue (-)																											650
BBMAS-35	4" brown vinyl baseboard with brown mastic																											50
FLCTG-36	red/green textured floor coating on roof deck																				1500							1500
PUTTY-39	grey exterior window putty																1750											1750
RFAQ-40	tar and gravel roofing																	600	300	5800		750	950	1950	500			10850
RFMAS-41	black roofing mastic along edge of roof and main field																	600	300	5800		750	950	1950	500			10850
FRCTG-42	off-white coating on overhang																							600				600
CONC-44	grey concrete on volleyball court and exterior walkways																3500											3500
PAINT-46	beige exterior paint on building and stack																20000											20000
PAINT-47	green exterior textured paint on landings												250															250
PAINT-48	grey exterior textured paint on steps												250															250
PAINT-49	red paint on concrete floors										400	400						80										880
HCAULK-50	light grey caulk around HVAC ducts																			100								100
GASKET-51	off-white gasket between wall panel seams																								300			300
GASKET-52	black foam gasket along bottom of tank																								60			60
PAINT-54	beige exterior paint on CMU walls																										380	380
PIDHW-NNN1	fiberglass insulation with paper jacket on feed water pipes	not suspect																									800	
TANK-NNN2	fiberglass insulation with paper jacket on condensate tank																										100	
FLOORS-NNN	non-suspect floors																											
WALLS-NNN	non-suspect walls																											
CEILING-NNNN	non-suspect ceilings																											
PISTM-NNN3	fiberglass insulation with paper jacket on low pressure steam pipes																											
CLTL-NNN4	24"x24" beige/white screwed on compressed board ceiling tile with pinholes			150			150																					250
ROOF-NNN5	grey rolled roofing with tars and mastics (replace approx. 5 years ago [est 2009] per Don Deluca)																									100	100	
LEAD CONTAINING MATERIALS			mg/kg																									
LEAD LINING-AAA	x-ray and dark rooms with lead lining sandwiched in walls and doors assumed present	1000																									2000	
200-OW-1-1	Off-white paints on concrete floors in basement mechanical room	1200																									PNQ	
200-OW-1-2	off-white paints on brick walls in basement mechanical room	1700																									PNQ	
200-GY-2-1	grey paints on concrete floors in basement mechancial room	970																									PNQ	
200-GR-3-1	green paints on concrete floors in basement maintenance room	90																									PNQ	
200-SI-4-1	silver paints on metal tank in basement mechanical room	16000																									PNQ	
200-GY-5-1	grey paints on plaster walls in basement fan room	680																									PNQ	
200-GY-6-1	grey paints on metal stairs in auditorium	350000																									PNQ	
200-GY-6-2	grey paints on metal stairs in Stair 3	1000										PNQ															PNQ	
200-BE-7-1	beige paints on metal vents on roof	830																									PNQ	
200-BE-7-2	beige paints on concrete roof eaves on exterior	1900															PNQ										PNQ	
200-BE-7-3	beige paints on exterior CMU walls	<250																								PNQ	PNQ	
200-BE-7-4	beige paints on exterior metal walls	330																							PNQ		PNQ	
200-GR-8-1	grey floor coating on roof deck of 3rd floor	5.6																		PNQ							PNQ	
200-GR-9-1	grey paints on exterior metal landing on Stair 3	25										PNQ					PNQ										PNQ	
200-BR-10-1	brown paints on exterior metal window frames	220															PNQ										PNQ	
200-RD-11-1	red paints on concrete floors in Stair 1	26									PNQ																PNQ	
LEAD PAINTS	lead-containing paints	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	PNQ	
FLVCT-16	lead in 9"x9" tan with brown and white streaks asbestos vinyl floor tiles	97ppm (TT)	1400	1300	900	1400	1300	900	2250	1600				120													32160	
PCBs			mg/kg																									
CAULK-26	grey caulk between brick wall and window frame	<10																									100	
PUTTY-30	off-white interior window putty	<0.69	100	90		90	90		80																		1425	
PUTTY-39	grey exterior window putty	<0.05															1750										1750	
CAULK-53	beige exterior caulk between brick wall and window frame	<0.05																									100	
TRANSFORMER-AAA15	PCB-containing oils (owned by PG&E)	Assumed																									3	
BALLASTS	Possible PCB-containing lighting ballasts	Present	22	18	4	22	18	4	18	15	4	4		2	8	5											588	
OTHER HAZMATS																												
TUBES	Mercury-containing fluorescent tubes	Present	22	18	8	22	18	8	24	30	8	8		4	16	10											873	

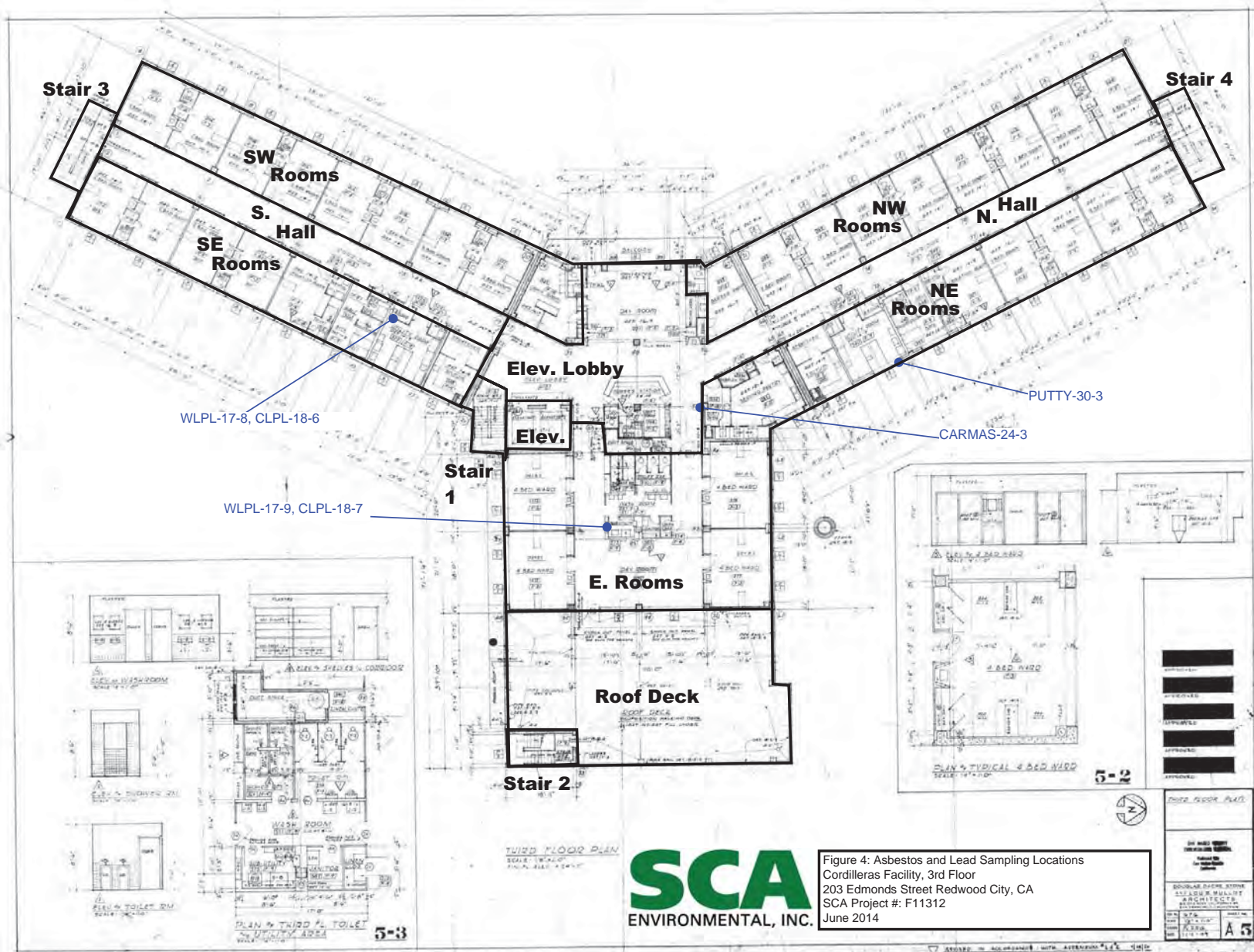
Appendix B

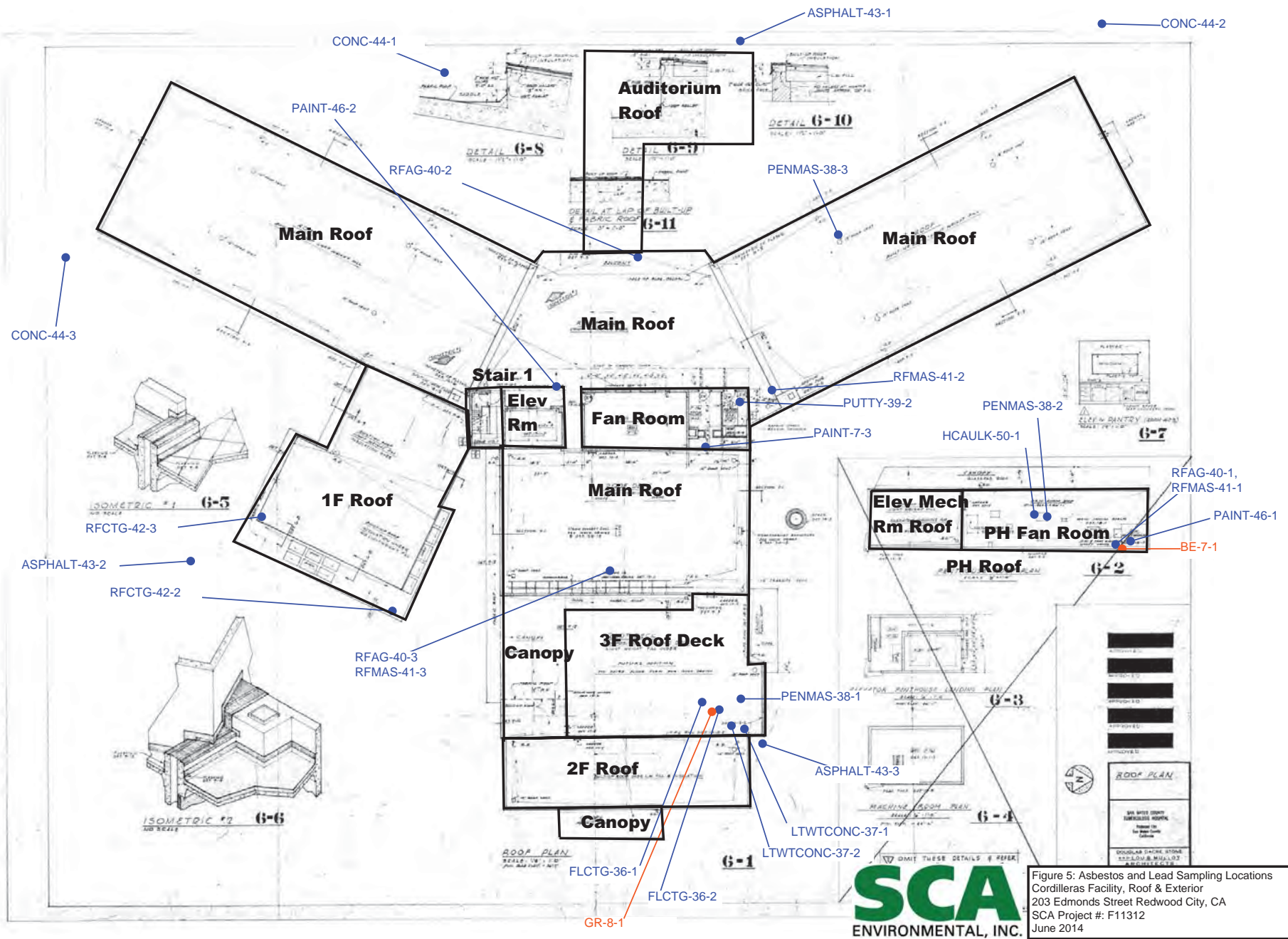
Sample Location Drawings

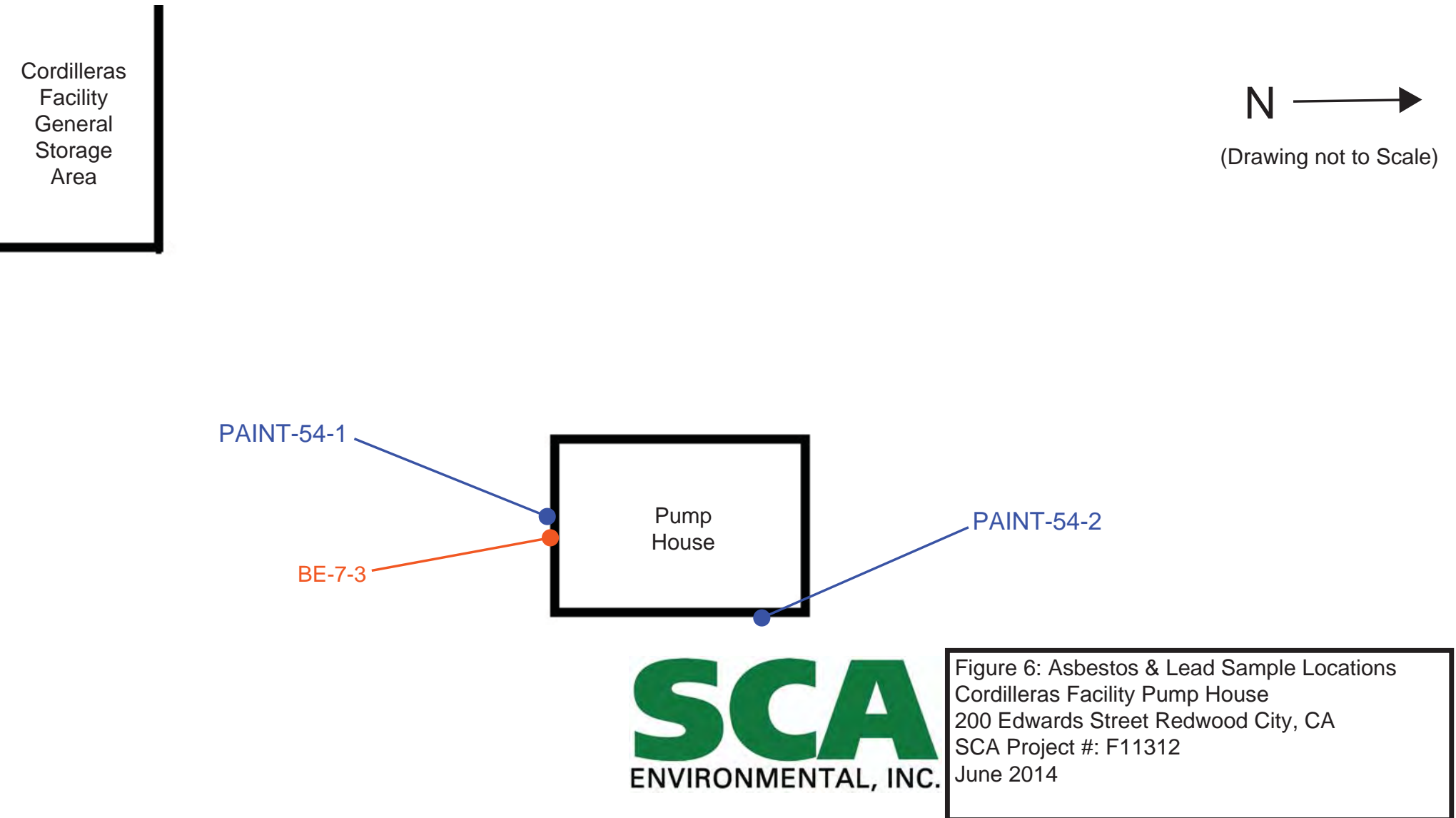






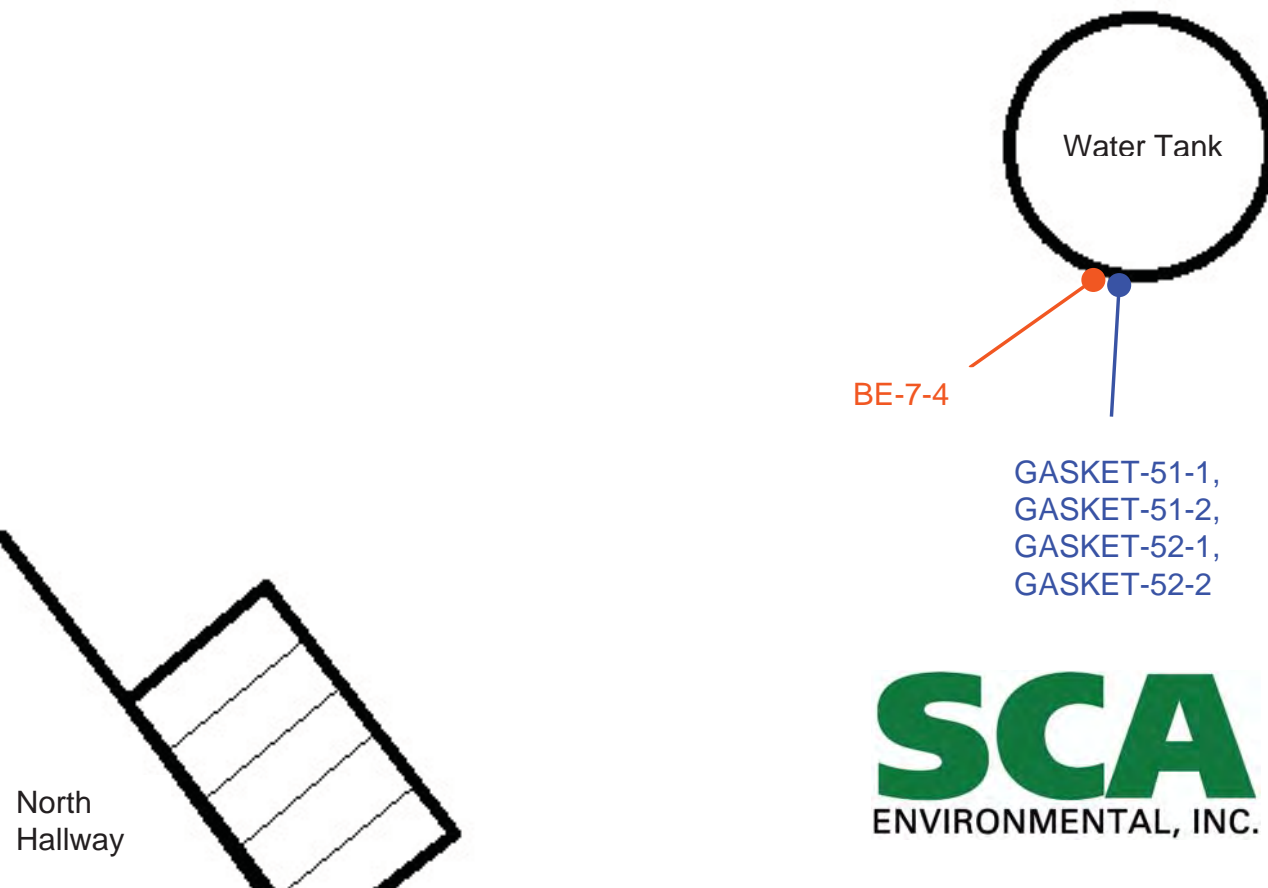








(Drawing not to scale)



SCA
ENVIRONMENTAL, INC.

Figure 7: Asbestos and Lead Sample Locations
Cordilleras Facility Water Tank
200 Edmonds Street Redwood City, CA
SCA Project #: F11312
June 2014

Appendix C

Asbestos Laboratory Results

POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 1 of 12

Contact: Christina Codemo Address: SCA Environmental 650 Delancey Street, #222 San Francisco, CA 94107		Samples Indicated: 65 Reg. Samples Analyzed: 63 Split Layers Analyzed: 51 Job Site / No. Cordilleras Mental Health Center, RWC F11312 - CC		Report No. 325726 Date Submitted: May-05-14 Date Reported: May-14-14	
SAMPLE ID	% ASBESTOS TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD LAB		
200-PAINT-1-1 Lab ID # 532-02326-001	None Detected	1) 1-5% Cellulose 2) 95-99% Glue, Opq, Calc, Other m.p. 3) _____ 4) May-13-14	Paint-Beige		
200-PAINT-2-1 Lab ID # 532-02326-002	None Detected	1) 1-5% Cellulose 2) 95-99% Glue, Opq, Calc, Other m.p. 3) _____ 4) May-13-14	Paint-Beige		
200-PISTM-3-1 Lab ID # 532-02326-003	60-70% Amosite	1) None Detected 2) 30-40% Calc 3) _____ 4) May-13-14	Insulation-Off-White		
200-PISTM-3-2 Lab ID # 532-02326-004	Not Analyzed	1) _____ 2) _____ 3) _____ 4) May-13-14			
200-CONC-4-1 Lab ID # 532-02326-005	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Bndr, Mica, Other m.p. 3) _____ 4) May-13-14	Concrete-Grey		
200-BRICK-5-1 Lab ID # 532-02326-006A	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Bndr, Mica, Other m.p. 3) _____ 4) May-13-14	Brick-Red		
200-BRICK-5-1 Lab ID # 532-02326-006B	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Bndr, Mica, Other m.p. 3) _____ 4) May-13-14	Brick-Grey		
200-BRICK-5-2 Lab ID # 532-02326-007A	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Bndr, Mica, Other m.p. 3) _____ 4) May-13-14	Brick-Red		
200-BRICK-5-2 Lab ID # 532-02326-007B	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Bndr, Mica, Other m.p. 3) _____ 4) May-13-14	Brick-Grey		
200-BRICK-6-1 Lab ID # 532-02326-008	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Bndr, Mica, Other m.p. 3) _____ 4) May-13-14	Brick-Grey		

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

ASBESTOS TEM LABORATORIES, INC.
www.asbestostemplabs.com

630 Bancroft Way, Berkeley CA 94710 (510) 704-8930
 With Offices in Reno, NV (775) 359-3377

POLARIZED LIGHT MICROSCOPY**ANALYTICAL REPORT**

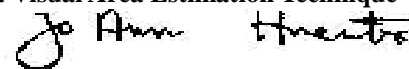
EPA Method 600/R-93/116 or 600/M4-82-020

Page: 2 of 12

Contact: Christina Codemo		Samples Indicated: 65	Report No. 325726	
Address: SCA Environmental		Reg. Samples Analyzed: 63	Date Submitted: May-05-14	
650 Delancey Street, #222		Split Layers Analyzed: 51	Date Reported: May-14-14	
San Francisco, CA 94107		Job Site / No. Cordilleras Mental Health Center, RWC		
		F11312 - CC		
SAMPLE ID	ASBESTOS TYPE	OTHER DATA		DESCRIPTION FIELD LAB
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		
200-PAINT-7-1 Lab ID # 532-02326-009A	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) May-13-14	4) May-13-14	Paint-Off-White
200-PAINT-7-1 Lab ID # 532-02326-009B	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) May-13-14	4) May-13-14	Texture-Yellow
200-PAINT-7-2 Lab ID # 532-02326-010A	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) May-13-14	4) May-13-14	Paint-Off-White
200-PAINT-7-2 Lab ID # 532-02326-010B	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) May-13-14	4) May-13-14	Texture-Yellow
200-CONC-8-1 Lab ID # 532-02326-011A	None Detected	1) None Detected 2) 99-100% Qtz, Opq, Other m.p. 3) May-13-14	4) May-13-14	Concrete-Grey
200-CONC-8-1 Lab ID # 532-02326-011B	None Detected	1) None Detected 2) 99-100% Qtz, Opq, Other m.p. 3) May-13-14	4) May-13-14	Floor Tile-Green
200-CONC-8-2 Lab ID # 532-02326-012A	None Detected	1) None Detected 2) 99-100% Qtz, Opq, Other m.p. 3) May-13-14	4) May-13-14	Concrete-Grey
200-CONC-8-2 Lab ID # 532-02326-012B	None Detected	1) None Detected 2) 99-100% Qtz, Opq, Other m.p. 3) May-13-14	4) May-13-14	Floor Tile-Green
200-PAINT-9-1 Lab ID # 532-02326-013	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) May-13-14	4) May-13-14	Paint-Silver/Beige
200-PIRFG-10-1 Lab ID # 532-02326-014	None Detected	1) 5-10% Cellulose 2) 90-95% Other m.p., Tar 3) May-13-14	4) May-13-14	PIRFG-Brown/Black

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst



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POLARIZED LIGHT MICROSCOPY**ANALYTICAL REPORT**

EPA Method 600/R-93/116 or 600/M4-82-020

Page: **3** of **12**

Contact: Christina Codemo	Samples Indicated: 65	Report No. 325726		
Address: SCA Environmental	Reg. Samples Analyzed: 63	Date Submitted: May-05-14		
650 Delancey Street, #222	Split Layers Analyzed: 51	Date Reported: May-14-14		
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SAMPLE ID		OTHER DATA		DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		
%	ASBESTOS TYPE		FIELD	LAB
200-PIRFG-10-2	None Detected	1)5-10% Cellulose 2)90-95% Other m.p., Tar		
Lab ID # 532-02326-015		3) 4) May-13-14	PIRFG-Brown/Black	
200-WLSH-11-1	None Detected	1)1-5% Fiberglass 2)95-99% Gyp, Other m.p.		
Lab ID # 532-02326-016A		3) 4) May-13-14	Drywall-Off-White	
200-WLSH-11-1	None Detected	1)1-5% Cellulose 2)95-99% Calc, Bndr, Mica, Other m.p.		
Lab ID # 532-02326-016B		3) 4) May-13-14	JointCom/Text-Off-White	
200-WLSH-11-2	None Detected	1)1-5% Fiberglass 2)95-99% Gyp, Other m.p.		
Lab ID # 532-02326-017A		3) 4) May-13-14	Drywall-Off-White	
200-WLSH-11-2	None Detected	1)1-5% Cellulose 2)95-99% Calc, Bndr, Mica, Other m.p.		
Lab ID # 532-02326-017B		3) 4) May-13-14	JointCom/Text-Off-White	
200-BBMAS-12-1	None Detected	1)None Detected 2)99-100% Glue		
Lab ID # 532-02326-018A		3) 4) May-13-14	Mastic-Off-White	
200-BBMAS-12-1	None Detected	1)None Detected 2)99-100% Glue, Qtz, Opq, Other m.p.		
Lab ID # 532-02326-018B		3) 4) May-13-14	Paint-Off-White	
200-BBMAS-12-2	None Detected	1)None Detected 2)99-100% Glue		
Lab ID # 532-02326-019A		3) 4) May-13-14	Mastic-Off-White	
200-BBMAS-12-2	None Detected	1)None Detected 2)99-100% Glue, Qtz, Opq, Other m.p.		
Lab ID # 532-02326-019B		3) 4) May-13-14	Paint-Off-White	
200-HIWS-13-1	None Detected	1)90-95% Fiberglass 2)5-10% GlassFrgs, Opq		
Lab ID # 532-02326-020		3) 4) May-13-14	Insulation-Off-White	

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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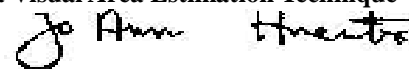
Page: 4 of 12

Contact: Christina Codemo Address: SCA Environmental 650 Delancey Street, #222 San Francisco, CA 94107		Samples Indicated: 65 Reg. Samples Analyzed: 63 Split Layers Analyzed: 51 Job Site / No. Cordilleras Mental Health Center, RWC F11312 - CC		Report No. 325726 Date Submitted: May-05-14 Date Reported: May-14-14	
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SAMPLE ID	% ASBESTOS TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
200-HIWS-13-2	None Detected	1) 90-95% Fiberglass 2) 5-10% GlassFrgs, Opq	
Lab ID # 532-02326-021A		3) 4) May-13-14	Insulation-Yellow
200-HIWS-13-2	None Detected	1) 40-50% Cellulose 2) 50-60% Bndr, Other m.p.	
Lab ID # 532-02326-021B		3) 4) May-13-14	Wallpaper-Off-White
200-HMAS-14-1	None Detected	1) None Detected 2) 99-100% Glue	
Lab ID # 532-02326-022A		3) 4) May-13-14	Mastic-Brown
200-HMAS-14-1	None Detected	1) None Detected 2) 99-100% Glue	
Lab ID # 532-02326-022B		3) 4) May-13-14	Insulation-Yellow
200-HMAS-14-2	None Detected	1) None Detected 2) 99-100% Glue	
Lab ID # 532-02326-023A		3) 4) May-13-14	Mastic-Brown
200-HMAS-14-2	None Detected	1) None Detected 2) 99-100% Glue	
Lab ID # 532-02326-023B		3) 4) May-13-14	Insulation-Yellow
200-SINK-15-1	None Detected	1) None Detected 2) 99-100% Glue	
Lab ID # 532-02326-024		3) 4) May-13-14	Sink-Off-White
200-FLVCT-16-1	1-5% Chrysotile	1) 1-5% Cellulose 2) 90-98% Bndr, Calc, Qtz	
Lab ID # 532-02326-025A		3) 4) May-13-14	Floor Tile-Beige
200-FLVCT-16-1	None Detected	1) None Detected 2) 99-100% Tar, Opq, Qtz, Other m.p.	
Lab ID # 532-02326-025B		3) 4) May-13-14	Mastic-Black
200-FLVCT-16-2	None Detected	1) None Detected 2) 99-100% Tar, Opq, Qtz, Other m.p.	
Lab ID # 532-02326-026A		3) 4) May-14-14	Mastic-Black

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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EPA Method 600/R-93/116 or 600/M4-82-020

Page: 5 of 12

Contact: Christina Codemo Address: SCA Environmental 650 Delancey Street, #222 San Francisco, CA 94107		Samples Indicated: 65 Reg. Samples Analyzed: 63 Split Layers Analyzed: 51 Job Site / No. Cordilleras Mental Health Center, RWC F11312 - CC		Report No. 325726 Date Submitted: May-05-14 Date Reported: May-14-14	
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SAMPLE ID	%	ASBESTOS TYPE	OTHER DATA	DESCRIPTION
			1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
200-FLVCT-16-2		Not Analyzed	1) 2)	
Lab ID # 532-02326-026B			3) 4) May-14-14	
200-FLVCT-16-3		None Detected	1) None Detected 2) 99-100% Tar, Opq, Qtz, Other m.p.	
Lab ID # 532-02326-027A			3) 4) May-14-14	Mastic-Black
200-FLVCT-16-3		Not Analyzed	1) 2)	
Lab ID # 532-02326-027B			3) 4) May-14-14	
200-WLPL-17-1		None Detected	1) 6-15% Fiberglass, Cellulose 2) 85-94% Calc, Gyp, Other m.p.	
Lab ID # 532-02326-028A			3) 4) May-13-14	Plaster-Off-White
200-WLPL-17-1		None Detected	1) 1-5% Cellulose 2) 95-99% Glue, Opq, Calc, Other m.p.	
Lab ID # 532-02326-028B			3) 4) May-13-14	Paint-Off-White
200-WLPL-17-2		None Detected	1) 6-15% Fiberglass, Cellulose 2) 85-94% Calc, Gyp, Other m.p.	
Lab ID # 532-02326-029A			3) 4) May-13-14	Plaster-Off-White
200-WLPL-17-2		None Detected	1) 1-5% Cellulose 2) 95-99% Glue, Opq, Calc, Other m.p.	
Lab ID # 532-02326-029B			3) 4) May-13-14	Paint-Off-White
200-WLPL-17-3		None Detected	1) 6-15% Fiberglass, Cellulose 2) 85-94% Calc, Gyp, Other m.p.	
Lab ID # 532-02326-030A			3) 4) May-13-14	Plaster-Off-White
200-WLPL-17-3		None Detected	1) 1-5% Cellulose 2) 95-99% Glue, Opq, Calc, Other m.p.	
Lab ID # 532-02326-030B			3) 4) May-13-14	Paint-Off-White
200-WLPL-17-4		None Detected	1) 6-15% Fiberglass, Cellulose 2) 85-94% Calc, Gyp, Other m.p.	
Lab ID # 532-02326-031A			3) 4) May-13-14	Plaster-Off-White

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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POLARIZED LIGHT MICROSCOPY**ANALYTICAL REPORT**

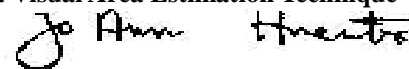
EPA Method 600/R-93/116 or 600/M4-82-020

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Contact: Christina Codemo	Samples Indicated: 65	Report No. 325726		
Address: SCA Environmental	Reg. Samples Analyzed: 63	Date Submitted: May-05-14		
650 Delancey Street, #222	Split Layers Analyzed: 51	Date Reported: May-14-14		
San Francisco, CA 94107	Job Site / No. Cordilleras Mental Health Center, RWC			
	F11312 - CC			
SAMPLE ID		OTHER DATA		DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		
ASBESTOS TYPE		FIELD LAB		
200-WLPL-17-4	None Detected	1) 1-5% Cellulose 2) 95-99% Glue, Opq, Calc, Other m.p.		
Lab ID # 532-02326-031B		3) May-13-14	Paint-Off-White	
200-WLPL-17-5	None Detected	1) 6-15% Fiberglass,Cellulose 2) 85-94% Calc, Gyp, Other m.p.		
Lab ID # 532-02326-032A		3) May-13-14	Plaster-Off-White	
200-WLPL-17-5	None Detected	1) 1-5% Cellulose 2) 95-99% Glue, Opq, Calc, Other m.p.		
Lab ID # 532-02326-032B		3) May-13-14	Paint-Off-White	
200-WLPL-17-6	None Detected	1) 6-15% Fiberglass,Cellulose 2) 85-94% Calc, Gyp, Other m.p.		
Lab ID # 532-02326-033A		3) May-13-14	Plaster-Off-White	
200-WLPL-17-6	None Detected	1) 1-5% Cellulose 2) 95-99% Glue, Opq, Calc, Other m.p.		
Lab ID # 532-02326-033B		3) May-13-14	Paint-Off-White	
200-WLPL-17-7	None Detected	1) 6-15% Fiberglass,Cellulose 2) 85-94% Calc, Gyp, Other m.p.		
Lab ID # 532-02326-034A		3) May-13-14	Plaster-Off-White	
200-WLPL-17-7	None Detected	1) 1-5% Cellulose 2) 95-99% Glue, Opq, Calc, Other m.p.		
Lab ID # 532-02326-034B		3) May-13-14	Paint-Off-White	
200-CLPL-18-1	None Detected	1) 6-15% Fiberglass,Cellulose 2) 85-94% Calc, Gyp, Other m.p.		
Lab ID # 532-02326-035A		3) May-13-14	Plaster-Off-White	
200-CLPL-18-1	None Detected	1) None Detected 2) 99-100% Qtz, Opq, Other m.p.		
Lab ID # 532-02326-035B		3) May-13-14	PlastCoarse-Off-White	
200-CLPL-18-1	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p.		
Lab ID # 532-02326-035C		3) May-13-14	Paint-Off-White	

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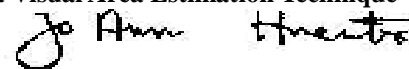
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Contact: Christina Codemo	Samples Indicated: 65	Report No. 325726		
Address: SCA Environmental	Reg. Samples Analyzed: 63	Date Submitted: May-05-14		
650 Delancey Street, #222	Split Layers Analyzed: 51	Date Reported: May-14-14		
San Francisco, CA 94107	Job Site / No. Cordilleras Mental Health Center, RWC			
	F11312 - CC			
SAMPLE ID		OTHER DATA		DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		
%	ASBESTOS TYPE			FIELD LAB
200-CLPL-18-2	None Detected	1)6-15% Fiberglass,Cellulose 2)85-94% Calc, Gyp, Other m.p.		
Lab ID # 532-02326-036A		3) 4) May-13-14	Plaster-Off-White	
200-CLPL-18-2	None Detected	1)None Detected 2)99-100% Qtz, Opq, Other m.p.		
Lab ID # 532-02326-036B		3) 4) May-13-14	PlastCoarse-Off-White	
200-CLPL-18-2	None Detected	1)None Detected 2)99-100% Glue, Qtz, Opq, Other m.p.		
Lab ID # 532-02326-036C		3) 4) May-13-14	Paint-Off-White	
200-CLPL-18-3	None Detected	1)6-15% Fiberglass,Cellulose 2)85-94% Calc, Gyp, Other m.p.		
Lab ID # 532-02326-037A		3) 4) May-13-14	Plaster-Off-White	
200-CLPL-18-3	None Detected	1)None Detected 2)99-100% Qtz, Opq, Other m.p.		
Lab ID # 532-02326-037B		3) 4)May-13-14	PlastCoarse-Off-White	
200-CLPL-18-3	None Detected	1)None Detected 2)99-100% Glue, Qtz, Opq, Other m.p.		
Lab ID # 532-02326-037C		3) 4) May-13-14	Paint-Off-White	
200-CLPL-18-4	None Detected	1)6-15% Fiberglass,Cellulose 2)85-94% Calc, Gyp, Other m.p.		
Lab ID # 532-02326-038A		3) 4)May-13-14	Plaster-Off-White	
200-CLPL-18-4	None Detected	1)None Detected 2)99-100% Qtz, Opq, Other m.p.		
Lab ID # 532-02326-038B		3) 4)May-13-14	PlastCoarse-Off-White	
200-CLPL-18-4	None Detected	1)None Detected 2)99-100% Glue, Qtz, Opq, Other m.p.		
Lab ID # 532-02326-038C		3) 4)May-13-14	Paint-Off-White	
200-CLPL-18-5	None Detected	1)6-15% Fiberglass,Cellulose 2)85-94% Calc, Gyp, Other m.p.		
Lab ID # 532-02326-039A		3) 4)May-13-14	Plaster-Off-White	

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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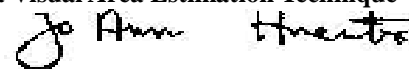
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Contact: Christina Codemo		Samples Indicated: 65	Report No. 325726	
Address: SCA Environmental		Reg. Samples Analyzed: 63	Date Submitted: May-05-14	
650 Delancey Street, #222		Split Layers Analyzed: 51	Date Reported: May-14-14	
San Francisco, CA 94107		Job Site / No. Cordilleras Mental Health Center, RWC		
		F11312 - CC		
SAMPLE ID	ASBESTOS TYPE	OTHER DATA		DESCRIPTION FIELD LAB
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		
200-CLPL-18-5 Lab ID # 532-02326-039B	None Detected	1) None Detected 2) 99-100% Qtz, Opq, Other m.p.		PlastCoarse-Off-White
200-CLPL-18-5 Lab ID # 532-02326-039C	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p.		Paint-Off-White
200-CLGL-19-1 Lab ID # 532-02326-040A	None Detected	1) 40-60% FiberGlass, Cellulose 2) 40-60% GlassFrgs, GlassFoam, Bndr		Ceiling Tile-Grey
200-CLGL-19-1 Lab ID # 532-02326-040B	None Detected	1) None Detected 2) 99-100% Glue		Mastic-Brown
200-PIDHW-20-1 Lab ID # 532-02326-041	1-5% Chrysotile 10-20% Amosite	1) None Detected 2) 75-89% Calc, Other m.p.		Insulation-White
200-HIWS-21-1 Lab ID # 532-02326-042	1-5% Chrysotile 10-20% Amosite	1) None Detected 2) 75-89% Calc, Other m.p.		Insulation-White
200-HIWS-21-2 Lab ID # 532-02326-043	Not Analyzed	1) 2)		
200-FLVCT-22-1 Lab ID # 532-02326-044A	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Bndr, Other m.p.		Floor Tile-Black
200-FLVCT-22-1 Lab ID # 532-02326-044B	None Detected	1) None Detected 2) 99-100% Glue		Mastic-Yellow
200-FLVCT-22-1 Lab ID # 532-02326-044C	None Detected	1) None Detected 2) 99-100% Calc, Bndr		Floor Tile-Off-White

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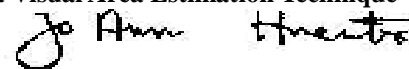
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Contact: Christina Codemo	Samples Indicated: 65	Report No. 325726	
Address: SCA Environmental	Reg. Samples Analyzed: 63	Date Submitted: May-05-14	
650 Delancey Street, #222	Split Layers Analyzed: 51	Date Reported: May-14-14	
San Francisco, CA 94107	Job Site / No. Cordilleras Mental Health Center, RWC		
	F11312 - CC		
		OTHER DATA	DESCRIPTION
SAMPLE ID	ASBESTOS TYPE	1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	
200-FLVCT-22-1	None Detected	1)None Detected 2)99-100% Glue	
Lab ID # 532-02326-044D		3) 4) May-13-14	Mastic-Off-White
200-FLVCT-22-1	None Detected	1)None Detected 2)99-100% Calc, Mica, Other m.p.	
Lab ID # 532-02326-044E		3) 4) May-13-14	LevelCmpd-Grey
200-FLVCT-22-2	None Detected	1)1-5% Cellulose 2)95-99% Calc, Bndr, Other m.p.	
Lab ID # 532-02326-045A		3) 4) May-13-14	Floor Tile-Black
200-FLVCT-22-2	None Detected	1)None Detected 2)99-100% Glue	
Lab ID # 532-02326-045B		3) 4) May-13-14	Mastic-Yellow
200-FLVCT-22-2	None Detected	1)None Detected 2)99-100% Calc, Bndr	
Lab ID # 532-02326-045C		3) 4)May-13-14	Floor Tile-Off-White
200-FLVCT-22-2	None Detected	1)None Detected 2)99-100% Glue	
Lab ID # 532-02326-045D		3) 4) May-13-14	Mastic-Off-White
200-FLVCT-22-2	None Detected	1)None Detected 2)99-100% Calc, Mica, Other m.p.	
Lab ID # 532-02326-045E		3) 4)May-13-14	LevelCmpd-Grey
200-CARMAS-24-1	None Detected	1)None Detected 2)99-100% Glue	
Lab ID # 532-02326-046		3) 4)May-13-14	Mastic-Yellow
200-CARMAS-24-2	None Detected	1)None Detected 2)99-100% Glue	
Lab ID # 532-02326-047		3) 4)May-13-14	Mastic-Yellow
200-CLGL-25-1	None Detected	1)70-80% Cellulose 2)20-30% GlassFoam, Other m.p.	
Lab ID # 532-02326-048		3) 4)May-13-14	Ceiling Tile-Grey

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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Contact: Christina Codemo		Samples Indicated: 65	Report No. 325726
Address: SCA Environmental		Reg. Samples Analyzed: 63	Date Submitted: May-05-14
650 Delancey Street, #222		Split Layers Analyzed: 51	Date Reported: May-14-14
San Francisco, CA 94107		Job Site / No. Cordilleras Mental Health Center, RWC	
		F11312 - CC	
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
200-CLGL-25-2	None Detected	1) 70-80% Cellulose 2) 20-30% GlassFoam, Other m.p.	
Lab ID # 532-02326-049		3) May-13-14 4) May-13-14	Ceiling Tile-Grey
200-CLGL-25-3	None Detected	1) 70-80% Cellulose 2) 20-30% GlassFoam, Other m.p.	
Lab ID # 532-02326-050		3) May-13-14 4) May-13-14	Ceiling Tile-Grey
200-CAULK-26-1	1-5% Chrysotile	1) None Detected 2) 95-99% Calc, Tar, Qtz, Bndr	
Lab ID # 532-02326-051		3) May-13-14 4) May-13-14	Caulk-Beige
200-FLVCS-27-1	None Detected	1) 10-20% Cellulose 2) 80-90% Bndr, Calc, Glue, Qtz	
Lab ID # 532-02326-052A		3) May-13-14 4) May-13-14	Floor Tile-Tan
200-FLVCS-27-1	None Detected	1) 10-20% Cellulose 2) 80-90% Bndr, Calc, Glue, Qtz	
Lab ID # 532-02326-052B		3) May-13-14 4) May-13-14	Sheet Floor/Backing-Off-White
200-FLVCS-27-1	None Detected	1) None Detected 2) 99-100% Glue	
Lab ID # 532-02326-052C		3) May-13-14 4) May-13-14	Mastic-Yellow
200-FLVCS-28-1	None Detected	1) None Detected 2) 99-100% Calc, Bndr	
Lab ID # 532-02326-053A		3) May-13-14 4) May-13-14	Linoleum-Off-White
200-FLVCS-28-1	None Detected	1) None Detected 2) 99-100% Glue	
Lab ID # 532-02326-053B		3) May-13-14 4) May-13-14	Mastic-Yellow
200-FLVCS-28-1	None Detected	1) None Detected 2) 99-100% Calc, Mica, Other m.p.	
Lab ID # 532-02326-053C		3) May-13-14 4) May-13-14	LevelCmpd-Grey
200-FLVCT-29-1	None Detected	1) 10-20% Cellulose 2) 80-90% Bndr, Calc, Glue, Qtz	
Lab ID # 532-02326-054A		3) May-13-14 4) May-13-14	Floor Tile-Off-White

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Contact: Christina Codemo	Samples Indicated: 65	Report No. 325726	
Address: SCA Environmental	Reg. Samples Analyzed: 63	Date Submitted: May-05-14	
650 Delancey Street, #222	Split Layers Analyzed: 51	Date Reported: May-14-14	
San Francisco, CA 94107	Job Site / No. Cordilleras Mental Health Center, RWC		
	F11312 - CC		
		OTHER DATA	DESCRIPTION
SAMPLE ID	ASBESTOS TYPE	1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	
	%		FIELD
			LAB
200-FLVCT-29-1	None Detected	1)None Detected 2)99-100% Glue	
Lab ID # 532-02326-054B		3) May-13-14 4) May-13-14	Mastic-Yellow
200-FLVCT-29-2	None Detected	1)10-20% Cellulose 2)80-90% Bndr, Calc, Glue, Qtz	
Lab ID # 532-02326-055A		3) May-13-14 4) May-13-14	Floor Tile-Off-White
200-FLVCT-29-2	None Detected	1)None Detected 2)99-100% Glue	
Lab ID # 532-02326-055B		3) May-13-14 4) May-13-14	Mastic-Yellow
200-PUTTY-30-1	None Detected	1)None Detected 2)99-100% Calc, Bndr	
Lab ID # 532-02326-056		3) May-13-14 4) May-13-14	Putty-Grey
200-PUTTY-30-2	None Detected	1)None Detected 2)99-100% Calc, Bndr	
Lab ID # 532-02326-057		3) May-13-14 4)May-13-14	Putty-Grey
200-FLVCT-31-1	None Detected	1)None Detected 2)99-100% Calc, Bndr	
Lab ID # 532-02326-058A		3) May-13-14 4) May-13-14	Floor Tile-Blue
200-FLVCT-31-1	None Detected	1)None Detected 2)99-100% Glue	
Lab ID # 532-02326-058B		3) May-13-14 4)May-13-14	Mastic-Yellow
200-CLSP-32-1	None Detected	1)70-80% Cellulose 2)20-30% GlassFoam, Other m.p.	
Lab ID # 532-02326-059		3) May-13-14 4)May-13-14	Ceiling Tile-Off-White
200-CLSP-32-2	None Detected	1)70-80% Cellulose 2)20-30% GlassFoam, Other m.p.	
Lab ID # 532-02326-060		3) May-13-14 4)May-13-14	Ceiling Tile-Off-White
200-FLVCT-33-1	None Detected	1)None Detected 2)99-100% Calc, Bndr	
Lab ID # 532-02326-061A		3) May-13-14 4)May-13-14	Floor Tile-Beige

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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POLARIZED LIGHT MICROSCOPY**ANALYTICAL REPORT**

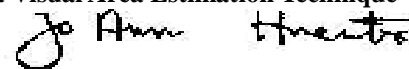
EPA Method 600/R-93/116 or 600/M4-82-020

Page: **12** of **12**

Contact: Christina Codemo		Samples Indicated: 65	Report No. 325726	
Address: SCA Environmental		Reg. Samples Analyzed: 63	Date Submitted: May-05-14	
650 Delancey Street, #222		Split Layers Analyzed: 51	Date Reported: May-14-14	
San Francisco, CA 94107		Job Site / No. Cordilleras Mental Health Center, RWC		
		F11312 - CC		
SAMPLE ID	ASBESTOS TYPE	OTHER DATA		DESCRIPTION FIELD LAB
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		
200-FLVCT-33-1	None Detected	1) None Detected 2) 99-100% Glue		
Lab ID # 532-02326-061B		3) May-13-14	4) May-13-14	Mastic-Yellow
200-FLVCT-33-2	None Detected	1) None Detected 2) 99-100% Calc, Bndr		
Lab ID # 532-02326-062A		3) May-13-14	4) May-13-14	Floor Tile-Beige
200-FLVCT-33-2	None Detected	1) None Detected 2) 99-100% Glue		
Lab ID # 532-02326-062B		3) May-13-14	4) May-13-14	Mastic-Yellow
200-SINK-34-1	1-5% Chrysotile	1) None Detected 2) 95-99% Gyp, Bndr, Calc, Opq		
Lab ID # 532-02326-063		3) May-13-14	4) May-13-14	Sink-Black
200-BBMAS-35-1	None Detected	1) 10-20% Cellulose 2) 80-90% Bndr, Calc, Glue, Qtz		
Lab ID # 532-02326-064A		3) May-13-14	4) May-13-14	Baseboard-Tan
200-BBMAS-35-1	None Detected	1) None Detected 2) 99-100% Glue		
Lab ID # 532-02326-064B		3) May-13-14	4) May-13-14	Mastic-Brown
200-CLGH-23-1	None Detected	1) 1-5% Fiberglass 2) 95-99% Gyp, Other m.p.		
Lab ID # 532-02326-065A		3) May-13-14	4) May-13-14	Drywall-Off-White
200-CLGH-23-1	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Gyp, Mica, Qtz		
Lab ID # 532-02326-065B		3) May-13-14	4) May-13-14	Texture-Off-White
Lab ID #		1) 2) 3) 4) 		
Lab ID #		1) 2) 3) 4) 		

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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 With Offices in Reno, NV (775) 359-3377

CHAIN OF CUSTODY FORM				CALL/TEXT with results:	
SCA Environmental, Inc. 650 Delancey St. #222, SF, CA 94107 334 19th St, Oakland, CA 94612 5777 W. Century Blvd, #1055, LA, CA 90045		Tel 415-8821675 510-6456200 310-2580460		Fax 415-9620736 415-9620736 415-9620736	
EMAIL HEADING: (Project #) - (Project Manager Initials) - (Site Name/Address) - (Date MMDD) CITY OF SAN CORDILLERAS GVV F-11312 CC CORDILLERAS MENTAL HEALTH CTR, 5/2		@messaging.sprintpcs.com Email rpt / COC & invoice: CCODEMO @sca-enviro.com			
LAB AIEM LABS		RWC		Email Prj Mgr Name: Chuck Siu Glenn Cass Christina Codemo	
COURIER LAB REP NOTIFIED: UPA AIRBILL/FLIGHT NO.: EST ARRIVAL DATE:		Notification DATE/TIME: Shipper REFERENCE I.D. EST. ARRIVAL TIME:		Accounting Data:	
Method Reference 7400 PCM PLM (asbestos)		AHERA TEM Flame AA (Lead)		CARB-AHERA TEM 0.001 s/cc Detection Limit	
Sample Media 25-37 mm 0.45 0.8 micron		MCEF Bulk Water Wipe		Units (each) PLM NIOSH 7400 PLM Bulk CARB 435 (400 Pt Ct) w/ prep PLM Std Point Count 400 TEM AHERA CARB AHERA 35-40 grid openings CARB AHERA 10-15 grid openings	
RESULTS DUE: 6 DAYS AM / PM		ASBESTOS Units (each) 1 to 9 < 6 hours 10 to 40 > 40			
CHAIN OF CUSTODY DATA: Sending Info: 65 samples submitted by DL (SCA) on 5/2 at 4:00 P Received by Lab: 65 samples received by RY on 05-05-14 at 11:09 Received by Analyst: samples received by on at		LEAD Units (each) 1 to 9 < 6 hours 10 to 40 > 40			
SAMPLE ID 200-PAINT-1-1 1-PAINT-2-1 1-PAINT-3-1.2 1-CONC-4-1 1-BRICK-5-1.2 1-BRICK-6-1 1-PAINT-7-1.2 1-CONC-8-1.2 1-PAINT-9-1 1-PIRFG-10-1.2 1-WLGH-11-1.2 1-BBMAQ-12-1.2 1-HING-13-1.2 1-HMAB-14-1.2 1-SINK-15-1 1-FLVCT-16-1.2,3		LITERS 0 LITERS 0 LITERS 0 LITERS		Results 200-WLPL-17-1.2,3,4,5,6,7 1-CLPL-18-1.2,3,4,5 1-CLGL-19-1 1-PIDHW-20-1.2 1-HING-21-1,2 1-FLVCT-22-1,2 1-CARMAQ-24-1.2 1-CLGL-25-1.2,3 1-CAULK-26-1 1-FLVCS-27-1 1-FLVCS-28-1 1-FLVCT-29-1.2 1-PUITY-30-1.2 1-FLVCT-31-1 1-CLGP-32-1.2 1-FLVCT-33-1.2	
INSTRUCTIONS TO LAB (delete items not applicable AND circle items applicable): 1. Pickup requested: 11: Contact: Time of Call: 2. Call SCA's contact to acknowledge receipt of samples. 3. Analyze samples by PCM only. 4. Analyze inside samples by PCM first; if any sample > 0.01 f/cc, contact SCA. 5. If all samples are < 0.01 f/cc, proceed with items 6, 7 or 8, as noted. 6. Analyze inside samples only; stop if Avg > 70 str/mm ² , contact SCA before analyzing outside or blanks. 7. Analyze all samples, including outside samples and blanks. 8. Do NOT analyze outside or blank samples. 9. Analyze by TEM only the inside air sample with the highest PCM result. 10. Serial analysis; stop at first positive (>1%); first trace (<0.1%); except sheetrock and plaster samples. 11. Analyze all bulk samples, unless otherwise indicated.		200-SINK-34-1 200-BBMAQ-35-1 200-CLGH-28-1			
Report Number: 325726		Supplies / Equipment Hi-Vol (3040) Lo-Vol (3020) TEM / Pb cassettes (3520) PCM cassettes (3500) Bulk sampling supply (3710)		Qty 65	

POLARIZED LIGHT MICROSCOPY**ANALYTICAL REPORT**

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 1 of 7

Contact: Christina Codemo		Samples Indicated: 52	Report No. 325758
Address: SCA Environmental		Reg. Samples Analyzed: 50	Date Submitted: May-07-14
650 Delancey Street, #222		Split Layers Analyzed: 12	Date Reported: May-16-14
San Francisco, CA 94107		Job Site / No. Cordilleras Mental Health Center, 200 Edmonds Rd RWC F11312 - CC	

SAMPLE ID	ASBESTOS TYPE	OTHER DATA	DESCRIPTION FIELD LAB
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	
200-BRICK-6-2 Lab ID # 532-02327-001	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Bndr, Mica, Other m.p. 3) _____ 4) May-15-14	Brick-Beige
200-PAINT-7-3 Lab ID # 532-02327-002	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) _____ 4) May-15-14	Paint-White
200-WLPL-17-8 Lab ID # 532-02327-003A	None Detected	1) 6-15% Fiberglass, Cellulose 2) 85-94% Calc, Gyp, Other m.p. 3) _____ 4) May-15-14	Plaster-White
200-WLPL-17-8 Lab ID # 532-02327-003B	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) _____ 4) May-15-14	Paint-White
200-WLPL-17-9 Lab ID # 532-02327-004A	None Detected	1) 6-15% Fiberglass, Cellulose 2) 85-94% Calc, Gyp, Other m.p. 3) _____ 4) May-15-14	Plaster-White
200-WLPL-17-9 Lab ID # 532-02327-004B	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) _____ 4) May-15-14	Paint-White
200-CLPL-18-6 Lab ID # 532-02327-005A	None Detected	1) 6-15% Fiberglass, Cellulose 2) 85-94% Calc, Gyp, Other m.p. 3) _____ 4) May-15-14	Plaster-White
200-CLPL-18-6 Lab ID # 532-02327-005B	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) _____ 4) May-15-14	Paint-Beige
200-CLPL-18-7 Lab ID # 532-02327-006A	None Detected	1) 6-15% Fiberglass, Cellulose 2) 85-94% Calc, Gyp, Other m.p. 3) _____ 4) May-15-14	Plaster-White
200-CLPL-18-7 Lab ID # 532-02327-006B	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) _____ 4) May-15-14	Paint-Beige

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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POLARIZED LIGHT MICROSCOPY**ANALYTICAL REPORT**

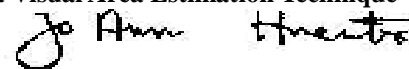
EPA Method 600/R-93/116 or 600/M4-82-020

Page: **2** of **7**

Contact: Christina Codemo	Samples Indicated: 52	Report No. 325758		
Address: SCA Environmental	Reg. Samples Analyzed: 50	Date Submitted: May-07-14		
650 Delancey Street, #222	Split Layers Analyzed: 12	Date Reported: May-16-14		
San Francisco, CA 94107	Job Site / No. Cordilleras Mental Health Center, 200 Edmonds Rd RWC			
	F11312 - CC			
SAMPLE ID		OTHER DATA		DESCRIPTION
		1) Non-Asbestos Fibers	2) Matrix Materials	
%	ASBESTOS TYPE	3) Date/Time Collected	4) Date Analyzed	FIELD LAB
200-CARMAS-24-3	None Detected	1)None Detected		
Lab ID # 532-02327-007		2)99-100% Glue		
		3)	4) May-15-14	Mastic-Yellow
200-FLCTG-36-1	None Detected	1)None Detected		
Lab ID # 532-02327-008A		2)99-100% Glue, Qtz, Opq, Other m.p.		
		3)	4) May-15-14	Paint-Green
200-FLCTG-36-1	None Detected	1)None Detected		
Lab ID # 532-02327-008B		2)99-100% Tar		
		3)	4) May-15-14	Asphalt-Grey
200-FLCTG-36-2	None Detected	1)None Detected		
Lab ID # 532-02327-009A		2)99-100% Glue, Qtz, Opq, Other m.p.		
		3)	4) May-15-14	Paint-Purple
200-FLCTG-36-2	None Detected	1)None Detected		
Lab ID # 532-02327-009B		2)99-100% Tar, Calc		
		3)	4)May-15-14	Asphalt-Grey
200-LTWTCONC-37-1	None Detected	1)None Detected		
Lab ID # 532-02327-010		2)99-100% Qtz, Opq, Other m.p.		
		3)	4) May-15-14	Concrete-Grey
200-LTWTCONC-37-2	None Detected	1)None Detected		
Lab ID # 532-02327-011		2)99-100% Qtz, Opq, Other m.p.		
		3)	4)May-15-14	Concrete-Grey
200-PENMAS-38-1	1-5% Chrysotile	1)None Detected		
Lab ID # 532-02327-012A		2)95-99% Tar, Bndr, Calc, Other m.p.		
		3)	4)May-15-14	Mastic-Black
200-PENMAS-38-1	None Detected	1)None Detected		
Lab ID # 532-02327-012B		2)99-100% Glue, Qtz, Opq, Other m.p.		
		3)	4)May-15-14	Paint-Silver
200-PENMAS-38-2	None Detected	1)1-5% Cellulose		
Lab ID # 532-02327-013		2)95-99% Glue, Opq, Calc, Other m.p.		
		3)	4)May-16-14	Paint-Silver

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst



POLARIZED LIGHT MICROSCOPY**ANALYTICAL REPORT**

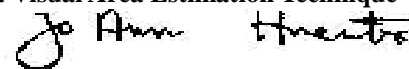
EPA Method 600/R-93/116 or 600/M4-82-020

Page: **3** of **7**

Contact: Christina Codemo	Samples Indicated: 52	Report No. 325758	
Address: SCA Environmental	Reg. Samples Analyzed: 50	Date Submitted: May-07-14	
650 Delancey Street, #222	Split Layers Analyzed: 12	Date Reported: May-16-14	
San Francisco, CA 94107	Job Site / No. Cordilleras Mental Health Center, 200 Edmonds Rd RWC		
	F11312 - CC		
		OTHER DATA	DESCRIPTION
SAMPLE ID	ASBESTOS % TYPE	1) Non-Asbestos Fibers	FIELD LAB
		2) Matrix Materials	
		3) Date/Time Collected	
		4) Date Analyzed	
200-PENMAS-38-3	None Detected	1) 1-5% Cellulose	
Lab ID # 532-02327-014		2) 95-99% Glue, Opq, Calc, Other m.p.	
		3) 4) May-16-14	Paint-Silver
200-PUTTY-39-1	None Detected	1) None Detected	
Lab ID # 532-02327-015		2) 99-100% Calc, Bndr	
		3) 4) May-15-14	Putty-Off-White
200-PUTTY-39-2	None Detected	1) None Detected	
Lab ID # 532-02327-016		2) 99-100% Calc, Bndr	
		3) 4) May-15-14	Putty-Off-White
200-PUTTY-39-3	None Detected	1) None Detected	
Lab ID # 532-02327-017A		2) 99-100% Calc, Bndr	
		3) 4) May-15-14	Putty-Off-White
200-PUTTY-39-3	None Detected	1) None Detected	
Lab ID # 532-02327-017B		2) 99-100% Glue, Qtz, Opq, Other m.p.	
		3) 4) May-15-14	Paint-Brown
200-RFAG-40-1	None Detected	1) 10-20% Cellulose, Fiberglass	
Lab ID # 532-02327-018		2) 80-90% Calc, Tar, Qtz, Opq	
		3) 4) May-15-14	Roofing Felt/Tar-Black
200-RFAG-40-2	None Detected	1) 10-20% Cellulose, Fiberglass	
Lab ID # 532-02327-019		2) 80-90% Calc, Tar, Qtz, Opq	
		3) 4) May-15-14	Roofing Felt/Tar-Black
200-RFAG-40-3	None Detected	1) 10-20% Cellulose, Fiberglass	
Lab ID # 532-02327-020		2) 80-90% Calc, Tar, Qtz, Opq	
		3) 4) May-15-14	Roofing Felt/Tar-Black
200-RFMAS-41-1	None Detected	1) None Detected	
Lab ID # 532-02327-021		2) 99-100% Tar, Opq, Qtz, Other m.p.	
		3) 4) May-15-14	Roof Mastic-Black
200-RFMAS-41-2	None Detected	1) None Detected	
Lab ID # 532-02327-022		2) 99-100% Tar, Opq, Qtz, Other m.p.	
		3) 4) May-15-14	Roof Mastic-Black

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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POLARIZED LIGHT MICROSCOPY**ANALYTICAL REPORT**

EPA Method 600/R-93/116 or 600/M4-82-020

Page: **4** of **7**

Contact: Christina Codemo		Samples Indicated: 52	Report No. 325758	
Address: SCA Environmental		Reg. Samples Analyzed: 50	Date Submitted: May-07-14	
650 Delancey Street, #222		Split Layers Analyzed: 12	Date Reported: May-16-14	
San Francisco, CA 94107		Job Site / No. Cordilleras Mental Health Center, 200 Edmonds Rd RWC F11312 - CC		
SAMPLE ID	ASBESTOS TYPE	OTHER DATA		DESCRIPTION FIELD LAB
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed		
200-RFMAS-41-3	None Detected	1) None Detected 2) 99-100% Tar, Opq, Qtz, Other m.p.		
Lab ID # 532-02327-023		3) May-15-14	4) May-15-14	Roof Mastic-Black
200-RFCTG-42-1	None Detected	1) None Detected 2) 99-100% Calc, Bndr		
Lab ID # 532-02327-024A		3) May-15-14	4) May-15-14	Caulk-Tan
200-RFCTG-42-1	None Detected	1) None Detected 2) 99-100% Calc, Bndr		
Lab ID # 532-02327-024B		3) May-15-14	4) May-15-14	Caulk-Off-White
200-RFCTG-42-2	None Detected	1) None Detected 2) 99-100% Calc, Bndr		
Lab ID # 532-02327-025A		3) May-15-14	4) May-15-14	Caulk-Tan
200-RFCTG-42-2	None Detected	1) None Detected 2) 99-100% Calc, Bndr		
Lab ID # 532-02327-025B		3) May-15-14	4) May-15-14	Caulk-Off-White
200-RFCTG-42-3	None Detected	1) None Detected 2) 99-100% Calc, Bndr		
Lab ID # 532-02327-026A		3) May-15-14	4) May-15-14	Caulk-Tan
200-RFCTG-42-3	None Detected	1) None Detected 2) 99-100% Calc, Bndr		
Lab ID # 532-02327-026B		3) May-15-14	4) May-15-14	Caulk-Off-White
200-ASPHALT-43-1	1-5% Chrysotile	1) None Detected 2) 95-99% Tar, Other m.p.		
Lab ID # 532-02327-028		3) May-15-14	4) May-15-14	Asphalt-Black
200-ASPHALT-43-2	Not Analyzed	1) 2) 3) May-15-14	4) May-15-14	
Lab ID # 532-02327-029				
200-ASPHALT-43-3	Not Analyzed	1) 2) 3) May-15-14	4) May-15-14	
Lab ID # 532-02327-030				

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

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POLARIZED LIGHT MICROSCOPY**ANALYTICAL REPORT**

EPA Method 600/R-93/116 or 600/M4-82-020

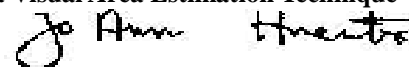
Page: 5 of 7

Contact: Christina Codemo		Samples Indicated: 52	Report No. 325758
Address: SCA Environmental		Reg. Samples Analyzed: 50	Date Submitted: May-07-14
650 Delancey Street, #222		Split Layers Analyzed: 12	Date Reported: May-16-14
San Francisco, CA 94107		Job Site / No. Cordilleras Mental Health Center, 200 Edmonds Rd RWC F11312 - CC	

SAMPLE ID	ASBESTOS % TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
200-CONC-44-1	None Detected	1) None Detected 2) 99-100% Qtz, Opq, Other m.p.	
Lab ID # 532-02327-031		3) May-15-14	Concrete-Grey
200-CONC-44-2	None Detected	1) None Detected 2) 99-100% Qtz, Opq, Other m.p.	
Lab ID # 532-02327-032		3) May-15-14	Concrete-Grey
200-CONC-44-3	None Detected	1) None Detected 2) 99-100% Qtz, Opq, Other m.p.	
Lab ID # 532-02327-033		3) May-15-14	Concrete-Grey
200-TRANSITE-45-1	30-40% Chrysotile 1-5% Crocidolite	1) None Detected 2) 55-69% Calc	
Lab ID # 532-02327-034		3) May-15-14	Transite-Grey
200-PAINT-46-1	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p.	
Lab ID # 532-02327-035		3) May-15-14	Paint-Beige
200-PAINT-46-2	None Detected	1) 1-5% Cellulose 2) 95-99% Calc, Gyp, Mica, Qtz	
Lab ID # 532-02327-035B		3) May-15-14	Texture-White
200-PAINT-46-2	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p.	
Lab ID # 532-02327-036		3) May-15-14	Paint-Beige
200-PAINT-46-3	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p.	
Lab ID # 532-02327-037		3) May-15-14	Paint-Beige
200-PAINT-46-4	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p.	
Lab ID # 532-02327-038		3) May-15-14	Paint-Beige
200-PAINT-47-1	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p.	
Lab ID # 532-02327-039		3) May-15-14	Paint-Green

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst



ASBESTOS TEM LABORATORIES, INC.
www.asbestostemplabs.com

630 Bancroft Way, Berkeley CA 94710 (510) 704-8930
 With Offices in Reno, NV (775) 359-3377

POLARIZED LIGHT MICROSCOPY**ANALYTICAL REPORT**

EPA Method 600/R-93/116 or 600/M4-82-020

Page: **6** of **7**

Contact: Christina Codemo		Samples Indicated: 52	Report No. 325758
Address: SCA Environmental		Reg. Samples Analyzed: 50	Date Submitted: May-07-14
650 Delancey Street, #222		Split Layers Analyzed: 12	Date Reported: May-16-14
San Francisco, CA 94107		Job Site / No. Cordilleras Mental Health Center, 200 Edmonds Rd RWC F11312 - CC	

SAMPLE ID	ASBESTOS % TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
200-PAINT-47-2 Lab ID # 532-02327-040	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) May-15-14 4) May-15-14	Paint-Green
200-PAINT-48-1 Lab ID # 532-02327-041	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) May-15-14 4) May-15-14	Paint-Red/Grey
200-PAINT-48-2 Lab ID # 532-02327-042	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) May-15-14 4) May-15-14	Paint-Red/Grey
200-PAINT-49-1 Lab ID # 532-02327-043	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) May-15-14 4) May-15-14	Paint-Red
200-PAINT-49-2 Lab ID # 532-02327-044	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) May-15-14 4) May-15-14	Paint-Red
200-HCAULK-50-1 Lab ID # 532-02327-045	None Detected	1) None Detected 2) 99-100% Calc, Bndr 3) May-15-14 4) May-15-14	Caulk-Grey
200-GASKET-51-1 Lab ID # 532-02327-046	None Detected	1) 5-10% Fiberglass 2) 90-95% Calc, Qtz, Opq 3) May-15-14 4) May-15-14	Gasket-White
200-GASKET-51-2 Lab ID # 532-02327-047	None Detected	1) 5-10% Fiberglass 2) 90-95% Calc, Qtz, Opq 3) May-15-14 4) May-15-14	Gasket-White
200-GASKET-52-1 Lab ID # 532-02327-048	None Detected	1) 5-10% Fiberglass 2) 90-95% Calc, Qtz, Opq 3) May-15-14 4) May-15-14	Gasket-Brown/Black
200-GASKET-52-2 Lab ID # 532-02327-049	None Detected	1) 5-10% Fiberglass 2) 90-95% Calc, Qtz, Opq 3) May-15-14 4) May-15-14	Gasket-Brown/Black

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst



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POLARIZED LIGHT MICROSCOPY**ANALYTICAL REPORT**

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 7 of 7

Contact: Christina Codemo		Samples Indicated: 52	Report No. 325758
Address: SCA Environmental		Reg. Samples Analyzed: 50	Date Submitted: May-07-14
650 Delancey Street, #222		Split Layers Analyzed: 12	Date Reported: May-16-14
San Francisco, CA 94107		Job Site / No. Cordilleras Mental Health Center, 200 Edmonds Rd RWC F11312 - CC	

SAMPLE ID	ASBESTOS % TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
200-CAULK-53-1 Lab ID # 532-02327-050	1-5% Chrysotile	1) None Detected 2) 95-99% Calc, Tar, Qtz, Bndr 3) May-15-14 4) May-15-14	Caulk-Off-White
200-PAINT-54-1 Lab ID # 532-02327-051	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) May-15-14 4) May-15-14	Paint-Beige
200-PAINT-54-2 Lab ID # 532-02327-052	None Detected	1) None Detected 2) 99-100% Glue, Qtz, Opq, Other m.p. 3) May-15-14 4) May-15-14	Paint-Beige
200-PUTTY-30-3 Lab ID # 532-02327-052	None Detected	1) None Detected 2) 99-100% Calc, Bndr 3) May-15-14 4) May-15-14	Putty-Beige
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
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Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

Analyst 

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CHAIN OF CUSTODY FORM				CALL/TXT with results:																																																																																																					
SCA Environmental, Inc. 650 Delancey St, #222, SF, CA 94107 334 19th St, Oakland, CA 94612 5777 W. Century Blvd, #1055, LA, CA 90045		Tel 415-8821675 510-6456200 310-2580460		Fax 415-9620736 415-9620736 415-9620736																																																																																																					
EMAIL HEADLINE: (Project #) - (Project Manager Initials) - (Site Name/Address) - (Date MMDD) C14 OF 3M CORDILLERAS GUY F-11312 CC CORDILLERAS MENTAL HEALTH CTR, 5/5 LAB ATEM LABS 200 EDMONDS RD, RWC		@messaging.sprintpcs.com Email rpt / COC & invoice: @sca-enviro.com Email Prj Mgr Name: Chuck Siu Glenn Cass Christina Codemo Accounting Data:																																																																																																							
COURIER LAB REP NOTIFIED: _____ AIRBILL/FLIGHT NO.: _____ EST ARRIVAL DATE: _____ Method Reference 7400 PCM AHERA TEM CARB-AHERA TEM 0.001 s/cc Detection Limit Sample Media 25 37 mm 0.45 0.8 micron MCEF Bulk Water Wipe		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Units (each)</th> <th>ASBESTOS</th> </tr> </thead> <tbody> <tr> <td>PCM NIOSH 7400</td> <td></td> </tr> <tr> <td>PCM Bulk</td> <td></td> </tr> <tr> <td>CARB 435 (400 Pt Ct) w/ prep</td> <td></td> </tr> <tr> <td>PLM Std Point Count 400</td> <td></td> </tr> <tr> <td>TEM AHERA</td> <td></td> </tr> <tr> <td>CARB AHERA 35-40 grid openings</td> <td></td> </tr> <tr> <td>CARB AHERA 10-15 grid openings</td> <td></td> </tr> </tbody> </table>				Units (each)	ASBESTOS	PCM NIOSH 7400		PCM Bulk		CARB 435 (400 Pt Ct) w/ prep		PLM Std Point Count 400		TEM AHERA		CARB AHERA 35-40 grid openings		CARB AHERA 10-15 grid openings																																																																																					
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INSTRUCTIONS TO LAB (delete items not applicable AND circle items applicable): 1. Pickup requested: _____ 11. : _____ Contact: _____ Time of Call: _____ 2. Call SCA's contact to acknowledge receipt of samples. 3. Analyze samples by PCM only. 4. Analyze inside samples by PCM first; if any sample >0.01 f/cc, contact SCA. 5. If all samples are <0.01 f/cc, proceed with items 6, 7 or 8, as noted. 6. Analyze inside samples only; stop if Avg >70 str/mm ² , contact SCA before analyzing outsides or blanks. 7. Analyze all samples, including outside samples and blanks. 8. Do NOT analyze outside or blank samples. 9. Analyze by TEM only the inside air sample with the highest PCM result. 10. Serial analysis; stop at first positive (>1%); first trace (<0.1%); except sheetrock and plaster samples. 11. Analyze all bulk samples, unless otherwise indicated.																																																																																																									
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Appendix D

PCB & Lead Laboratory Results



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1405113

Report Created for: SCA Enviromental, Inc.
334 19th Street
Oakland, CA 94612

Project Contact: Christina Codemo

Project P.O.:

Project Name: #F-11312; City of SM Cordilleras Svy

Project Received: 05/05/2014

Analytical Report reviewed & approved for release on 05/08/2014 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.




McC Campbell Analytical, Inc.
"When Quality Counts"

 1534 Willow Pass Road, Pittsburg, CA 94565-1701
 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
<http://www.mcccampbell.com> / E-mail: main@mcccampbell.com

Glossary of Terms & Qualifier Definitions

Client: SCA Enviromental, Inc.
Project: #F-11312; City of SM Cordilleras Svy
WorkOrder: 1405113

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifier

S	spike recovery outside accepted recovery limits
a3	sample diluted due to high organic content.
a4	the reporting limits were raised due to the sample's matrix prohibiting a full volume extraction.
a7	reporting limit raised due to limited sample amount
c1	surrogate recovery outside of the control limits due to the dilution of the sample.
h4	sulfuric acid permanganate (EPA 3665) cleanup

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD was out of acceptance criteria; LCS validated the prep batch.
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Analytical Report

Client: SCA Enviromental, Inc.
Project: #F-11312; City of SM Cordilleras Svy
Date Received: 5/5/14 9:53
Date Prepared: 5/5/14

WorkOrder: 1405113
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
200-CAULK-26	1405113-008A	Solid	05/02/2014	GC5A	90034

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	10	20	05/06/2014 17:11
Aroclor1221	ND	10	20	05/06/2014 17:11
Aroclor1232	ND	10	20	05/06/2014 17:11
Aroclor1242	ND	10	20	05/06/2014 17:11
Aroclor1248	ND	10	20	05/06/2014 17:11
Aroclor1254	ND	10	20	05/06/2014 17:11
Aroclor1260	ND	10	20	05/06/2014 17:11
PCBs, total	ND	10	20	05/06/2014 17:11

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: a3,a4,c1,h4
Decachlorobiphenyl	171	S	70-130	05/06/2014 17:11

200-PUTTY-30	1405113-009A	Solid	05/02/2014	GC5A	90034
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Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.69	1	05/06/2014 17:49
Aroclor1221	ND	0.69	1	05/06/2014 17:49
Aroclor1232	ND	0.69	1	05/06/2014 17:49
Aroclor1242	ND	0.69	1	05/06/2014 17:49
Aroclor1248	ND	0.69	1	05/06/2014 17:49
Aroclor1254	ND	0.69	1	05/06/2014 17:49
Aroclor1260	ND	0.69	1	05/06/2014 17:49
PCBs, total	ND	0.69	1	05/06/2014 17:49

Surrogates	REC (%)	Limits	Analytical Comments: a7,h4
Decachlorobiphenyl	128	70-130	05/06/2014 17:49



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Analytical Report

Client: SCA Enviromental, Inc.
Project: #F-11312; City of SM Cordilleras Svy
Date Received: 5/5/14 9:53
Date Prepared: 5/5/14

WorkOrder: 1405113
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
200-OW-1-1	1405113-001A	Solid/TOTAL	05/02/2014	ICP-JY	90033
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	1200		6.0	1	05/07/2014 13:52
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	108		70-130		05/07/2014 13:52
200-OW-1-2	1405113-002A	Solid/TOTAL	05/02/2014	ICP-JY	90033
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	1700		5.0	1	05/07/2014 13:54
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	105		70-130		05/07/2014 13:54
200-GY-2-1	1405113-003A	Solid/TOTAL	05/02/2014	ICP-JY	90033
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	970		8.1	1	05/07/2014 13:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	107		70-130		05/07/2014 13:57
200-GR-3-1	1405113-004A	Solid/TOTAL	05/02/2014	ICP-JY	90033
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	90		5.1	1	05/07/2014 13:59
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	99		70-130		05/07/2014 13:59
200-SI-4-1	1405113-005A	Solid/TOTAL	05/02/2014	ICP-JY	90033
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	16,000		13	1	05/07/2014 14:01
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	104		70-130		05/07/2014 14:01

(Cont.)



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Analytical Report

Client: SCA Enviromental, Inc.
Project: #F-11312; City of SM Cordilleras Svy
Date Received: 5/5/14 9:53
Date Prepared: 5/5/14

WorkOrder: 1405113
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
200-GY-5-1	1405113-006A	Solid/TOTAL	05/02/2014	ICP-JY	90033
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	680		9.3	1	05/07/2014 14:03
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	102		70-130		05/07/2014 14:03
200-GY-6-1	1405113-007A	Solid/TOTAL	05/02/2014	ICP-JY	90033
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	350,000		230	10	05/07/2014 12:12
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	107		70-130		05/07/2014 12:12



Quality Control Report

Client: SCA Enviromental, Inc.
Date Prepared: 5/5/14
Date Analyzed: 5/6/14
Instrument: GC5A
Matrix: Soil
Project: #F-11312; City of SM Cordilleras Svy

WorkOrder: 1405113
BatchID: 90034
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg
Sample ID: MB/LCS-90034
 1405147-005AMS/MSD

QC Summary Report for SW8082

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aroclor1016	ND	-	0.050	-	-	-	-
Aroclor1221	ND	-	0.050	-	-	-	-
Aroclor1232	ND	-	0.050	-	-	-	-
Aroclor1242	ND	-	0.050	-	-	-	-
Aroclor1248	ND	-	0.050	-	-	-	-
Aroclor1254	ND	-	0.050	-	-	-	-
Aroclor1260	ND	0.145	0.050	0.15	-	96.4	70-130
PCBs, total	ND	-	0.050	-	-	-	-

Surrogate Recovery

Decachlorobiphenyl	0.0631	0.0591		0.050	126	118	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aroclor1260	0.203	0.214	0.15	ND	135,F1	142,F1	70-130	5.20	30
Surrogate Recovery									
Decachlorobiphenyl	0.0650	0.0693	0.050		130	139	70-130	6.32	30



Quality Control Report

Client: SCA Enviromental, Inc.
Date Prepared: 5/5/14
Date Analyzed: 5/6/14
Instrument: ICP-JY
Matrix: Soil
Project: #F-11312; City of SM Cordilleras Svy

WorkOrder: 1405113
BatchID: 90033
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: mg/Kg
Sample ID: MB/LCS-90033
1404A99-016AMS/MSD

QC Summary Report for SW6010B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	48.1	5.0	50	-	96.2	75-125
Surrogate Recovery							
Tb 350.917	511	509		500	102	102	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	62.6	62.3	50	10.25	105	104	75-125	4.30	25
Surrogate Recovery									
Tb 350.917	508	500	500		101	100	70-130	5.83	20



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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405113

ClientCode: SCAO

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☒ EQulS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:

Christina Codemo
SCA Enviromental, Inc.
334 19th Street
Oakland, CA 94612
(510) 645-6200 FAX: (510) 839- 6200

Email: ccodemo@sca-enviro.com
cc/3rd Party:
PO:
ProjectNo: #F-11312; City of SM Cordilleras Svy

Bill to:

Accounts Payable
SCA Enviromental, Inc.
334 19th Street
Oakland, CA 94612
emuisse@sca-ic.com

Requested TAT:

5 days

Date Received: 05/05/2014

Date Printed: 05/05/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1405113-001	200-OW-1-1	Solid	5/2/2014	<input type="checkbox"/>		A										
1405113-002	200-OW-1-2	Solid	5/2/2014	<input type="checkbox"/>		A										
1405113-003	200-GY-2-1	Solid	5/2/2014	<input type="checkbox"/>		A										
1405113-004	200-GR-3-1	Solid	5/2/2014	<input type="checkbox"/>		A										
1405113-005	200-SI-4-1	Solid	5/2/2014	<input type="checkbox"/>		A										
1405113-006	200-GY-5-1	Solid	5/2/2014	<input type="checkbox"/>		A										
1405113-007	200-GY-6-1	Solid	5/2/2014	<input type="checkbox"/>		A										
1405113-008	200-CAULK-26	Solid	5/2/2014	<input type="checkbox"/>	A											
1405113-009	200-PUTTY-30	Solid	5/2/2014	<input type="checkbox"/>	A											

Test Legend:

1	8082A_PCB_Solid	2	PB_S	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



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WORK ORDER SUMMARY

Client Name: SCA ENVIROMENTAL, INC.

QC Level: LEVEL 2

Work Order: 1405113

Project: #F-11312; City of SM Cordilleras Svy

Client Contact: Christina Codemo

Date Received: 5/5/2014

Comments:

Contact's Email: ccodemo@sca-enviro.com

☐ WaterTrax
 ☐ WriteOn
 ☐ EDF
 ☐ Excel
 ☐ Fax
 ☒ Email
 ☐ HardCopy
 ☐ ThirdParty
 ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1405113-001A	200-OW-1-1	Solid	SW6010B (Lead)	1	Small Yellow Plasic	<input type="checkbox"/>	5/2/2014	5 days		<input type="checkbox"/>	
1405113-002A	200-OW-1-2	Solid	SW6010B (Lead)	1	Small Yellow Plasic	<input type="checkbox"/>	5/2/2014	5 days		<input type="checkbox"/>	
1405113-003A	200-GY-2-1	Solid	SW6010B (Lead)	1	Small Yellow Plasic	<input type="checkbox"/>	5/2/2014	5 days		<input type="checkbox"/>	
1405113-004A	200-GR-3-1	Solid	SW6010B (Lead)	1	Small Yellow Plasic	<input type="checkbox"/>	5/2/2014	5 days		<input type="checkbox"/>	
1405113-005A	200-SI-4-1	Solid	SW6010B (Lead)	1	Small Yellow Plasic	<input type="checkbox"/>	5/2/2014	5 days		<input type="checkbox"/>	
1405113-006A	200-GY-5-1	Solid	SW6010B (Lead)	1	Small Yellow Plasic	<input type="checkbox"/>	5/2/2014	5 days		<input type="checkbox"/>	
1405113-007A	200-GY-6-1	Solid	SW6010B (Lead)	1	Small Yellow Plasic	<input type="checkbox"/>	5/2/2014	5 days		<input type="checkbox"/>	
1405113-008A	200-CAULK-26	Solid	SW8082 (PCBs Only)	1	Small Yellow Plasic	<input type="checkbox"/>	5/2/2014	5 days		<input type="checkbox"/>	
1405113-009A	200-PUTTY-30	Solid	SW8082 (PCBs Only)	1	Small Yellow Plasic	<input type="checkbox"/>	5/2/2014	5 days		<input type="checkbox"/>	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

Small Yellow Plasic =



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CHAIN OF CUSTODY RECORD

Page E-53

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☒GeoTracker EDF ☐ PDF ☒ EDD ☐ Write On (DW) ☐ EQulS ☐ 10 DAY ☐Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐ Claim # _____

Report To: CHRISTINA CODEMO

Bill To: GCA ENV.

Company: GCA ENVIRONMENTAL, INC.

334 19TH ST.

OAKLAND, CA 94612

E-Mail: CCODEMO@GCA-ENVIRO.COM

Tele: (415) 867-9540

Fax: (415) 962-8736

Project #: F-11312

Project Name: CITY OF SAN CORDILLERAS

Project Location: CORDILLERAS MENTAL HEALTH

Purchase Order#

SVY

Sampler Signature: DAN LEUNG

CIR, RWC

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED			BTEX/MTBE & TPH as Gas (8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664/5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/608/8081 (CI Pesticides)	EPA 608/8082 PCB's ; Aroclors / Congeners	EPA 507/8141 (NP Pesticides)	EPA 515/8151 (Acidic CI Herbicides)	BTEX/MTBE & TPH as Gas (8260)	EPA 524.2/624/8260 (VOCs)	EPA 525.2/625/8270 (SVOCs)	EPA 8270 SIM/8310 (PAHs)	CAM 17 Metals (200.7/200.8/6010/6020)	LUFT 5 Metals (200.7/200.8/6010/6020)	Metals (200.7/200.8/6010/6020)	Filter sample for DISSOLVED metals analysis	LEAD (ALC)	PCB		
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other																				
200-DW-1-1		5/2		1								X																							
-DW-1-2		↓		1								X																							
-GY-2-1				1								X																							
-GR-3-1				1								X																							
-SI-4-1				1								X																							
-GY-5-1				1								X																							
-GY-6-1				1								X																							
-CAULK-26				1								X																							
↓ -PUKY-30		↓		1								X																							

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: DAN LEUNG	Date: 5/2	Time: 4:00 P	Received By:	ICEA* GOOD CONDITION HEAD SPACE ABSENT DECHLORINATED IN LAB APPROPRIATE CONTAINERS PRESERVED IN LAB	COMMENTS:
Relinquished By:	Date: 5/5/14	Time: 0930	Received By: [Signature]	VOAS O&G METALS OTHER HAZARDOUS: PRESERVATION pH<2	
Relinquished By:	Date:	Time:	Received By:		


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Sample Receipt Checklist

Client Name: **SCA Enviromental, Inc.**Date and Time Received: **5/5/2014 9:53:46 AM**Project Name: **#F-11312; City of SM Cordilleras Svy**Login Reviewed by: **Maria Venegas**WorkOrder N°: **1405113**Matrix: SolidCarrier: UPS

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp:		NA <input checked="" type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: pH<2; 522: pH<4)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

* NOTE: If the "No" box is checked, see comments below.

 Comments:



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Analytical Report

WorkOrder: 1405194

Report Created for: SCA Enviromental, Inc.
334 19th Street
Oakland, CA 94612

Project Contact: Christina Codemo

Project P.O.:

Project Name: #F-11312; CT of SM Cordilleras SVY

Project Received: 05/06/2014

Analytical Report reviewed & approved for release on 05/08/2014 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.




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Glossary of Terms & Qualifier Definitions

Client: SCA Enviromental, Inc.
Project: #F-11312; CT of SM Cordilleras SVY
WorkOrder: 1405194

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifier

S	spike recovery outside accepted recovery limits
a7	reporting limit raised due to limited sample amount
h4	sulfuric acid permanganate (EPA 3665) cleanup

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD was out of acceptance criteria; LCS validated the prep batch.
----	--



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Analytical Report

Client: SCA Enviromental, Inc.

WorkOrder: 1405194

Project: #F-11312; CT of SM Cordilleras SVY

Extraction Method: SW3550B

Date Received: 5/6/14 17:35

Analytical Method: SW8082

Date Prepared: 5/6/14

Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
200-Putty-39	1405194-010A	Solid	05/05/2014	GC5A	90117

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	05/06/2014 22:48
Aroclor1221	ND	0.050	1	05/06/2014 22:48
Aroclor1232	ND	0.050	1	05/06/2014 22:48
Aroclor1242	ND	0.050	1	05/06/2014 22:48
Aroclor1248	ND	0.050	1	05/06/2014 22:48
Aroclor1254	ND	0.050	1	05/06/2014 22:48
Aroclor1260	ND	0.050	1	05/06/2014 22:48
PCBs, total	ND	0.050	1	05/06/2014 22:48

Surrogates	REC (%)	Limits	Analytical Comments: h4	Date Analyzed
Decachlorobiphenyl	129	70-130		05/06/2014 22:48

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
200-Caulk-53	1405194-011A	Solid	05/05/2014	GC5A	90117

Analytes	Result	RL	DF	Date Analyzed
Aroclor1016	ND	0.050	1	05/06/2014 23:26
Aroclor1221	ND	0.050	1	05/06/2014 23:26
Aroclor1232	ND	0.050	1	05/06/2014 23:26
Aroclor1242	ND	0.050	1	05/06/2014 23:26
Aroclor1248	ND	0.050	1	05/06/2014 23:26
Aroclor1254	ND	0.050	1	05/06/2014 23:26
Aroclor1260	ND	0.050	1	05/06/2014 23:26
PCBs, total	ND	0.050	1	05/06/2014 23:26

Surrogates	REC (%)	Qualifiers	Limits	Analytical Comments: h4	Date Analyzed
Decachlorobiphenyl	146	S	70-130		05/06/2014 23:26



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Analytical Report

Client: SCA Enviromental, Inc.
Project: #F-11312; CT of SM Cordilleras SVY
Date Received: 5/6/14 17:35
Date Prepared: 5/6/14

WorkOrder: 1405194
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
200-GY-6-2	1405194-001A	Solid/TOTAL	05/05/2014	ICP-JY	90113
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	1000		5.6	1	05/07/2014 11:47
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	98		70-130		05/07/2014 11:47
200-BE-7-1	1405194-002A	Solid/TOTAL	05/05/2014	ICP-JY	90113
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	830		5.0	1	05/07/2014 11:54
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	99		70-130		05/07/2014 11:54
200-BE-7-2	1405194-003A	Solid/TOTAL	05/05/2014	ICP-JY	90113
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	1900		5.0	1	05/07/2014 11:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	109		70-130		05/07/2014 11:57
200-BE-7-3	1405194-004A	Solid/TOTAL	05/05/2014	ICP-JY	90113
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	ND		250	1	05/07/2014 11:59
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>	Analytical Comments: a7	
Tb 350.917	108		70-130		05/07/2014 11:59
200-BE-7-4	1405194-005A	Solid/TOTAL	05/05/2014	ICP-JY	90113
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	330		15	1	05/07/2014 12:01
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	106		70-130		05/07/2014 12:01

(Cont.)



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Analytical Report

Client: SCA Enviromental, Inc.

WorkOrder: 1405194

Project: #F-11312; CT of SM Cordilleras SVY

Extraction Method: SW3050B

Date Received: 5/6/14 17:35

Analytical Method: SW6010B

Date Prepared: 5/6/14

Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
200-GR-8-1	1405194-006A	Solid/TOTAL	05/05/2014	ICP-JY	90113
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	5.6		5.0	1	05/07/2014 12:03
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	104		70-130		05/07/2014 12:03
200-GR-9-1	1405194-007A	Solid/TOTAL	05/05/2014	ICP-JY	90113
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	25		7.7	1	05/07/2014 12:05
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	108		70-130		05/07/2014 12:05
200-BR-10-1	1405194-008A	Solid/TOTAL	05/05/2014	ICP-JY	90113
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	220		100	1	05/07/2014 12:07
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	107		70-130		05/07/2014 12:07
200-RD-11-1	1405194-009A	Solid/TOTAL	05/05/2014	ICP-JY	90113
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	26		23	1	05/07/2014 12:09
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	104		70-130		05/07/2014 12:09



Quality Control Report

Client: SCA Enviromental, Inc.
Date Prepared: 5/6/14
Date Analyzed: 5/7/14
Instrument: ICP-JY
Matrix: Soil
Project: #F-11312; CT of SM Cordilleras SVY

WorkOrder: 1405194
BatchID: 90113
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: mg/Kg
Sample ID: MB/LCS-90113
1405184-006AMS/MSD

QC Summary Report for SW6010B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	50.5	5.0	50	-	101	75-125
Surrogate Recovery							
Tb 350.917	541	529		500	108	106	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	NR	NR	50	100.5	NR	NR	75-125	NR	25
Surrogate Recovery									
Tb 350.917	531	498	500		106	100	70-130	6.41	20

(Cont.)



Quality Control Report

Client: SCA Environmental, Inc.
Date Prepared: 5/6/14
Date Analyzed: 5/7/14
Instrument: GC5A
Matrix: Soil
Project: #F-11312; CT of SM Cordilleras SVY

WorkOrder: 1405194
BatchID: 90117
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg
Sample ID: MB/LCS-90117
1405217-004AMS/MSD

QC Summary Report for SW8082

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Aroclor1016	ND	-	0.050	-	-	-	-
Aroclor1221	ND	-	0.050	-	-	-	-
Aroclor1232	ND	-	0.050	-	-	-	-
Aroclor1242	ND	-	0.050	-	-	-	-
Aroclor1248	ND	-	0.050	-	-	-	-
Aroclor1254	ND	-	0.050	-	-	-	-
Aroclor1260	ND	0.154	0.050	0.15	-	102	70-130
PCBs, total	ND	-	0.050	-	-	-	-

Surrogate Recovery

Decachlorobiphenyl	0.0626	0.0617		0.050	125	123	70-130
--------------------	--------	--------	--	-------	-----	-----	--------

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aroclor1260	0.206	0.227	0.15	ND	137,F1	151,F1	70-130	9.83	30
Surrogate Recovery									
Decachlorobiphenyl	0.0643	0.0650	0.050		129	130	70-130	1.04	30



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405194

ClientCode: SCAO

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☒ EQuIS ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:

Christina Codemo
SCA Enviromental, Inc.
334 19th Street
Oakland, CA 94612
(510) 645-6200 FAX: (510) 839- 6200

Email: ccodemo@sca-enviro.com
cc/3rd Party:
PO:
ProjectNo: #F-11312; CT of SM Cordilleras SVY

Bill to:

Accounts Payable
SCA Enviromental, Inc.
334 19th Street
Oakland, CA 94612
emuise@sca-ic.com

Requested TAT:

5 days

Date Received: 05/06/2014

Date Printed: 05/06/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1405194-001	200-GY-6-2	Solid	5/5/2014	<input type="checkbox"/>		A										
1405194-002	200-BE-7-1	Solid	5/5/2014	<input type="checkbox"/>		A										
1405194-003	200-BE-7-2	Solid	5/5/2014	<input type="checkbox"/>		A										
1405194-004	200-BE-7-3	Solid	5/5/2014	<input type="checkbox"/>		A										
1405194-005	200-BE-7-4	Solid	5/5/2014	<input type="checkbox"/>		A										
1405194-006	200-GR-8-1	Solid	5/5/2014	<input type="checkbox"/>		A										
1405194-007	200-GR-9-1	Solid	5/5/2014	<input type="checkbox"/>		A										
1405194-008	200-BR-10-1	Solid	5/5/2014	<input type="checkbox"/>		A										
1405194-009	200-RD-11-1	Solid	5/5/2014	<input type="checkbox"/>		A										
1405194-010	200-Putty-39	Solid	5/5/2014	<input type="checkbox"/>	A											
1405194-011	200-Caulk-53	Solid	5/5/2014	<input type="checkbox"/>	A											

Test Legend:

1	8082A_PCB_S	2	PB_S	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Jena Alfaro

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



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WORK ORDER SUMMARY

Client Name: SCA ENVIROMENTAL, INC.

QC Level: LEVEL 2

Work Order: 1405194

Project: #F-11312; CT of SM Cordilleras SVY

Client Contact: Christina Codemo

Date Received: 5/6/2014

Comments:

Contact's Email: ccodemo@sca-enviro.com

☐ WaterTrax
 ☐ WriteOn
 ☐ EDF
 ☐ Excel
 ☐ Fax
 ☒ Email
 ☐ HardCopy
 ☐ ThirdParty
 ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1405194-001A	200-GY-6-2	Solid	SW6010B (Lead)	1	Small Yellow Plastic Container	<input type="checkbox"/>	5/5/2014	5 days		<input type="checkbox"/>	
1405194-002A	200-BE-7-1	Solid	SW6010B (Lead)	1	Small Yellow Plastic Container	<input type="checkbox"/>	5/5/2014	5 days		<input type="checkbox"/>	
1405194-003A	200-BE-7-2	Solid	SW6010B (Lead)	1	Small Yellow Plastic Container	<input type="checkbox"/>	5/5/2014	5 days		<input type="checkbox"/>	
1405194-004A	200-BE-7-3	Solid	SW6010B (Lead)	1	Small Yellow Plastic Container	<input type="checkbox"/>	5/5/2014	5 days		<input type="checkbox"/>	
1405194-005A	200-BE-7-4	Solid	SW6010B (Lead)	1	Small Yellow Plastic Container	<input type="checkbox"/>	5/5/2014	5 days		<input type="checkbox"/>	
1405194-006A	200-GR-8-1	Solid	SW6010B (Lead)	1	Small Yellow Plastic Container	<input type="checkbox"/>	5/5/2014	5 days		<input type="checkbox"/>	
1405194-007A	200-GR-9-1	Solid	SW6010B (Lead)	1	Small Yellow Plastic Container	<input type="checkbox"/>	5/5/2014	5 days		<input type="checkbox"/>	
1405194-008A	200-BR-10-1	Solid	SW6010B (Lead)	1	Small Yellow Plastic Container	<input type="checkbox"/>	5/5/2014	5 days		<input type="checkbox"/>	
1405194-009A	200-RD-11-1	Solid	SW6010B (Lead)	1	Small Yellow Plastic Container	<input type="checkbox"/>	5/5/2014	5 days		<input type="checkbox"/>	
1405194-010A	200-Putty-39	Solid	SW8082 (PCBs Only)	1	Small Yellow Plastic Container	<input type="checkbox"/>	5/5/2014	5 days		<input type="checkbox"/>	
1405194-011A	200-Caulk-53	Solid	SW8082 (PCBs Only)	1	Small Yellow Plastic Container	<input type="checkbox"/>	5/5/2014	5 days		<input type="checkbox"/>	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

Small Yellow Plastic Container =



Appendix E: Hazardous Materials Investigation

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CHAIN OF CUSTODY RECORD Page E-64

TURN AROUND TIME: RUSH ☐ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☒
 GeoTracker EDF ☐ PDF ☒ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐
 Effluent Sample Requiring "J" flag ☐ UST Clean Up Fund Project ☐ ; Claim # _____

Report To: CHRISTINA CODEMO Bill To: GCA ENV.
 Company: GCA ENVIRONMENTAL, INC.
 334 19TH ST.
 OAKLAND, CA 94612 E-Mail: CCODEMO@GCA-ENVIRO.COM
 Tele: (415) 867-9540 Fax: (415) 962-8736
 Project #: F-11312 Project Name: CITY OF AM CORDILLERAS
 Project Location: CORDILLERAS MENTAL HILL Purchase Order# 5VY
 Sampler Signature: DAN LEUNG CTR, 200 EDWARDS RD, RWC

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX							METHOD PRESERVED			BTX/ MTBE & TPH as G TPH as Diesel (8015)	Total Petroleum Oil & Grease	Total Petroleum Hydrocarbons	EPA 505/ 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's : Aroclors	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	BTX/ MTBE & TPH as G	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6011)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6011)	Metals (200.7 / 200.8 / 6010 / 6011)	Filter sample for DISSOLVED	LEAD (ALC)	PC-B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃																		Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
200-GY-6-2		5/5		1								X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: DAN LEUNG Date: 5/5 Time: 11:00A Received By: [Signature]
 Relinquished By: [Signature] Date: 5/6/14 Time: 1:00 Received By: [Signature]
 Relinquished By: [Signature] Date: [] Time: [] Received By: [Signature]

ICE/A° _____ COMMENTS: _____
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____
 VOAS O&G METALS OTHER HAZARDOUS: _____
 PRESERVATION pH<2 _____


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 http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Sample Receipt Checklist

Client Name: **SCA Enviromental, Inc.**Date and Time Received: **5/6/2014 5:35:45 PM**Project Name: **#F-11312; CT of SM Cordilleras SVY**Login Reviewed by: **Jena Alfaro**WorkOrder N°: **1405194**Matrix: SolidCarrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp:		NA <input checked="" type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: pH<2; 522: pH<4)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

* NOTE: If the "No" box is checked, see comments below.

 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1405A20

Report Created for: SCA Environmental, Inc.
650 Delancey Street, #222
San Francisco, CA 94107

Project Contact: Christina Codemo

Project P.O.:

Project Name: #F11312.02; Cordilleras Survey

Project Received: 05/28/2014

Analytical Report reviewed & approved for release on 05/29/2014 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: SCA Environmental, Inc.
Project: #F11312.02; Cordilleras Survey
WorkOrder: 1405A20

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence



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Analytical Report

Client: SCA Environmental, Inc.

WorkOrder: 1405A20

Project: #F11312.02; Cordilleras Survey

Extraction Method: SW3050B

Date Received: 5/28/14 11:43

Analytical Method: SW6010B

Date Prepared: 5/28/14

Unit: mg/Kg

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
FLVCT-16	1405A20-001A	Solid/TOTAL	05/28/2014	ICP-JY	90870
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DF</u>	<u>Date Analyzed</u>
Lead	97		12	1	05/29/2014 10:41
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
Tb 350.917	91		70-130		05/29/2014 10:41



Quality Control Report

Client: SCA Environmental, Inc.
Date Prepared: 5/28/14
Date Analyzed: 5/29/14
Instrument: ICP-JY
Matrix: Soil
Project: #F11312.02; Cordilleras Survey

WorkOrder: 1405A20
BatchID: 90870
Extraction Method: SW3050B
Analytical Method: SW6010B
Unit: mg/Kg
Sample ID: MB/LCS-90870

QC Summary Report for SW6010B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	48.2	5.0	50	-	96.3	75-125
Surrogate Recovery							
Tb 350.917	492	474		500	98	95	70-130



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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405A20

ClientCode: SCAF

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Report to:

Christina Codemo
SCA Environmental, Inc.
650 Delancey Street, #222
San Francisco, CA 94107
(510) 459-8233 FAX: (415) 703-0701

Email: ccodemo@sca-enviro.com
cc/3rd Party:
PO:
ProjectNo: #F11312.02; Cordilleras Survey

Bill to:

Accounts Payable
SCA Environmental, Inc.
650 Delancey Street, #222
San Francisco, CA 94107
emuise@sca-ic.com

Requested TAT:

1 day

Date Received: 05/28/2014

Date Printed: 05/28/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1405A20-001	FLVCT-16	Solid	5/28/2014	<input type="checkbox"/>	A											

Test Legend:

1	PB_S	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments: 1 Day ASAP Rush

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



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WORK ORDER SUMMARY

Client Name: SCA ENVIRONMENTAL, INC.

QC Level: LEVEL 2

Work Order: 1405A20

Project: #F11312.02; Cordilleras Survey

Client Contact: Christina Codemo

Date Received: 5/28/2014

Comments: 1 Day ASAP Rush

Contact's Email: ccodemo@sca-enviro.com

☐ WaterTrax
 ☐ WriteOn
 ☐ EDF
 ☐ Excel
 ☐ Fax
☒ Email
☐ HardCopy
☐ ThirdParty
☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1405A20-001A	FLVCT-16	Solid	TCLP Extraction	3	Yellow Plastic	<input type="checkbox"/>	5/28/2014	1 day*		<input type="checkbox"/>	
			STLC Extraction			<input type="checkbox"/>		1 day*		<input type="checkbox"/>	
			SW6010B (Lead)			<input type="checkbox"/>		1 day		<input type="checkbox"/>	

*** NOTE:** STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).

Bottle Legend:

Yellow Plastic =

1405A20

Page E-72

RUSH

SCA Environmental, Inc. (568-6127)										Analysis Request/Method Number										Comments									
Email: ccodemo@sca-enviro.com										TPH as Diesel and Motor Oil (8015) with SGCU TPH as Gas, Diesel, & Motor Oil (8015) with SGCU VOCs (8260) SVOCs (8270) CAM 17 Metals (6010 / 6020) Chlorinated Herbicides (8151) PCBs (8082) TTLC-Lead TCLP extraction WET Extraction																			
Project Name: cordilleras survey																													
Project No.: F11312.02																													
Laboratory: McCampbell																													
Carrier: McCampbell Courier																													
Date Shipped: 5/28/14																													
SAMPLE ID	SAMPLING		# Containers	Type Containers	MATRIX					LAB ID																			
	Date	Time			Water	Soil	Air	Sludge	Other																				
FLVCT-16	052814		3	B					X																Run sample as-is				
Relinquished By: CC via Golden Bullet Courier from ATEM	Date: 5/28/14	Time: 10:04 am	Received By:																						Total for each analysis				
Relinquished By:	Date: 5/28/14	Time: 11:35	Received By: <i>Muna V-6</i>							Instructions/Remarks:																			
Relinquished By:	Date:	Time:	Received By:							START EXTRACTIONS FOR STLC/TCLP. SCA WILL CONTACT MCCAMPBELL TO IDENTIFY METALS TO RUN ONCE INITIAL LAB RESULTS ARE RECEIVED.																			
Turnaround Requested:										Sample Disposal:										<input type="checkbox"/> PROVIDE EDD FORMAT									
<input type="checkbox"/> Standard (5-7 days) <input type="checkbox"/> 48 Hour <input type="checkbox"/> 24 hour <input checked="" type="checkbox"/> Other: ASAP:										<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab																			
Report to: <u>Christina Codemo, ccodemo@sca-enviro.com</u> <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> 650 Delancey St. #222 San Francisco, CA 94107 Tel: 415/867-9540 efax: 415/962-0736 </div> <div> <input type="checkbox"/> 334 19th Street Oakland, CA 94612 tel: 510-645-6200 efax: 415-962-0736 </div> </div>																													

SCA
ENVIRONMENTAL, INC.


McC Campbell Analytical, Inc.
"When Quality Counts"

 1534 Willow Pass Road, Pittsburg, CA 94565-1701
 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
 http://www.mcccampbell.com / E-mail: main@mcccampbell.com

Sample Receipt Checklist

Client Name: **SCA Environmental, Inc.**Date and Time Received: **5/28/2014 11:43:13 AM**Project Name: **#F11312.02; Cordilleras Survey**Login Reviewed by: **Maria Venegas**WorkOrder N°: **1405A20**Matrix: SolidCarrier: Courier

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp:		NA <input checked="" type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: pH<2; 522: pH<4)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

* NOTE: If the "No" box is checked, see comments below.

 Comments:



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Analytical Report

WorkOrder: 1405A20 A

Report Created for: SCA Environmental, Inc.
650 Delancey Street, #222
San Francisco, CA 94107

Project Contact: Christina Codemo

Project P.O.:

Project Name: #F11312.02; Cordilleras Survey

Project Received: 05/28/2014

Analytical Report reviewed & approved for release on 06/02/2014 by:

*Question about
your data?*

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: SCA Environmental, Inc.
Project: #F11312.02; Cordilleras Survey
WorkOrder: 1405A20

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence



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Analytical Report

Client: SCA Environmental, Inc.
Project: #F11312.02; Cordilleras Survey
Date Received: 5/28/14 11:43
Date Prepared: 5/28/14

WorkOrder: 1405A20
Extraction Method: CA Title 22
Analytical Method: SW6010B
Unit: mg/L

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
FLVCT-16	1405A20-001A	Solid/WET	05/28/2014	ICP-JY	90848
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Lead	0.56		0.20	1	06/02/2014 11:03



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Analytical Report

Client: SCA Environmental, Inc.
Project: #F11312.02; Cordilleras Survey
Date Received: 5/28/14 11:43
Date Prepared: 5/28/14

WorkOrder: 1405A20
Extraction Method: SW1311/SW3050B
Analytical Method: SW6010B
Unit: mg/L

Lead

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
FLVCT-16	1405A20-001A	Solid/TCLP	05/28/2014	ICP-JY	90849
<u>Analytes</u>	<u>Result</u>		<u>RL</u>	<u>DE</u>	<u>Date Analyzed</u>
Lead	ND		0.20	1	06/02/2014 11:05



Quality Control Report

Client: SCA Environmental, Inc.
Date Prepared: 5/27/14
Date Analyzed: 5/31/14
Instrument: ICP-JY
Matrix: Soil
Project: #F11312.02; Cordilleras Survey

WorkOrder: 1405A20
BatchID: 90848
Extraction Method: CA Title 22
Analytical Method: SW6010B
Unit: mg/L
Sample ID: MB/LCS-90848
1405517-002AMS/MSD

QC Summary Report for SW6010B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	1.10	0.20	1	-	110	75-125

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	1.27	1.19	1	0.32	95.4	87	70-130	6.83	30



Quality Control Report

Client: SCA Environmental, Inc.
Date Prepared: 5/27/14
Date Analyzed: 5/30/14
Instrument: ICP-JY
Matrix: Soil
Project: #F11312.02; Cordilleras Survey

WorkOrder: 1405A20
BatchID: 90849
Extraction Method: SW1311/SW3050B
Analytical Method: SW6010B
Unit: mg/L
Sample ID: MB/LCS-90849
1405517-002AMS/MSD

QC Summary Report for SW6010B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Lead	ND	1.09	0.20	1	-	109	75-125

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Lead	1.12	0.996	1	ND	112	99.6	70-130	11.7	30



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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405A20 A ClientCode: SCAF

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☒ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:

Christina Codemo
SCA Environmental, Inc.
650 Delancey Street, #222
San Francisco, CA 94107
(510) 459-8233 FAX: (415) 703-0701

Email: ccodemo@sca-enviro.com
cc/3rd Party:
PO:
ProjectNo: #F11312.02; Cordilleras Survey

Bill to:

Accounts Payable
SCA Environmental, Inc.
650 Delancey Street, #222
San Francisco, CA 94107
emuise@sca-ic.com

Requested TAT:

1 day

Date Received: 05/28/2014

Date Add-On: 05/29/2014

Date Printed: 06/02/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1405A20-001	FLVCT-16	Solid	5/28/2014	<input type="checkbox"/>	A	A										

Test Legend:

1	STLC_PB_S	2	TCLP_PB_S	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Add-On Prepared By: Maria Venegas

Comments: 1 Day ASAP Rush STLC and TCLP added 5/29/14 RTAT

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.



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WORK ORDER SUMMARY

Client Name: SCA ENVIRONMENTAL, INC.

QC Level: LEVEL 2

Work Order: 1405A20

Project: #F11312.02; Cordilleras Survey

Client Contact: Christina Codemo

Date Received: 5/28/2014

Comments: 1 Day ASAP Rush STLC and TCLP added 5/29/14 RTAT

Contact's Email: ccodemo@sca-enviro.com

Date Add-On: 5/29/2014

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1405A20-001A	FLVCT-16	Solid	SW6010B (Lead) (TCLP)	3	Yellow Plastic	5/28/2014	1 day*		<input type="checkbox"/>	
			SW6010B (Lead) (STLC)				1 day*		<input type="checkbox"/>	

* NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).

Bottle Legend:

Yellow Plastic =

1405A20

Page E-82

RUSH

Appendix E: Hazardous Materials Investigation (650) 568-6127										Analysis Request/Method Number												
SCA Contact: Christina Codemo Email: ccodemo@sca-enviro.com																						
Project Name: cordilleras survey																						
Project No.: F11312.02																						
Laboratory: McCampbell																						
Carrier: McCampbell Courier																						
Date Shipped: 5/28/14																						
SAMPLE ID	SAMPLING		# Containers	Type Containers	MATRIX					LAB ID												
	Date	Time			Water	Soil	Air	Sludge	Other		TPH as Diesel and Motor Oil (8015) with SGC	TPH as Gas, Diesel, & Motor Oil (8015) with SGC	VOCs (8260)	SVOCs (8270)	CAM 17 Metals (6010 / 6020)	Chlorinated Herbicides (8151)	PCBs (8082)	TTLG-Lead	TCLP extraction	WET Extraction	Comments	
FLVCT-16	052814		3	B					X									X	X	X	X	Run sample as-is
Relinquished By: CC via Golden Bullet Courier from ATEM	Date: 5/28/14	Time: 10:04 am	Received By:														1	1	1			Total for each analysis
Relinquished By:	Date: 5/28/14	Time: 11:35	Received By: <i>Muna</i>							Instructions/Remarks:												
Relinquished By:	Date:	Time:	Received By:							START EXTRACTIONS FOR STLC/TCLP. SCA WILL CONTACT MCCAMPBELL TO IDENTIFY METALS TO RUN ONCE INITIAL LAB RESULTS ARE RECEIVED.												
Turnaround Requested:										<input type="checkbox"/> Standard (5-7 days) <input type="checkbox"/> 48 Hour <input type="checkbox"/> 24 hour <input checked="" type="checkbox"/> Other: ASAP:												
										Sample Disposal: <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab												
										<input type="checkbox"/> PROVIDE EDD FORMAT												
Report to: Christina Codemo, ccodemo@sca-enviro.com <div style="display: flex; justify-content: space-between;"> <div> <input checked="" type="checkbox"/> 650 Delancey St. #222 San Francisco, CA 94107 Tel: 415/867-9540 efax: 415/962-0736 </div> <div> <input type="checkbox"/> 334 19th Street Oakland, CA 94612 tel: 510-645-6200 efax: 415-962-0736 </div> </div>																						

SCA
ENVIRONMENTAL, INC.

Appendix E

Abatement Cost Estimates

ABATEMENT COST ESTIMATE: CORDILLERAS FACILITY, REDWOOD CITY, CA **SUMMARY**

Building	Total Abatement Cost Estimate	Positive Asbestos	Assumed Asbestos	Other Hazmats	Consultant Monitoring
Cordilleras Facility	\$1,935,094	\$439,074	\$1,143,816	\$29,689	\$322,516
Water Tower	\$10,800	\$0	\$0	\$9,000	\$1,800
Pump House	\$11,088	\$0	\$8,040	\$1,800	\$1,848
Total	\$1,956,982	\$439,074	\$1,151,856	\$40,489	\$326,164
% of total	100%	22%	59%	2%	17%

***Note:** The cost estimates refer to asbestos, lead-coatings, PCB ballasts, mercury-containing tubes, and lead sheeting only. The estimates provided herein do not include costs for removal of other hazardous materials that may be present at the site. Costs listed above include abatement and consultant oversight. For a detailed breakdown, refer to the attached sheets. Unit prices provided on attached sheets assume State Prevailing Wages will be required. Note that costs can fluctuate +/- 20-25% based on seasonal fluctuations, temperature, etc.

ABATEMENT COST ESTIMATE: CORDILLERAS FACILITY, REDWOOD CITY, CA
Cordilleras Facility, 200 Edmonds

Room ID----- Material ID	Components	Asbestos: Positive, Negative, Trace, Assumed	Units	TOTAL +/- 15%	Estimated Abatement Cost per unit	Total Estimated Cost
ASBESTOS						
PISTM-3	off-white insulation with yellow-painted canvas jacket on steam pipes	Pos	LF	5310	\$19.20	\$101,952.00
FLVCT-16	9"x9" tan with brown and white streaks vinyl floor tile (+) with black mastic (-)		SF	32160	\$1.80	\$57,888.00
PIDHW-20	off-white insulation with canvas jacket on pipes		LF	4260	\$19.20	\$81,792.00
HINS-21	off-white insulation with canvas jacket on HVAC ducts		LF	3450	\$19.20	\$66,240.00
CAULK-26	grey caulk between brick wall and window frame		LF	100	\$1.80	\$180.00
FLVCS-27	grey speckled vinyl floor sheeting (-) w/ yellow glue (-) over FLVCT-16 (+) & mastic (-)		SF	150	\$3.00	\$450.00
SINK-34	black stainless steel sink undercoating		EA	2	\$30.00	\$60.00
PENMAS-38	black mastic/coating (+) with silver paint (-) on roofing penetrations		LF	5	\$2.40	\$12.00
ASPHALT-43	black exterior asphalt and assumed aggregate base (destructive coring required to confirm presence of aggregate and asbestos content)		SF	27000	\$4.80	\$129,600.00
TRANSITE-45	abandoned grey transite pipes (along the southwest ext of the building on the first floor level)		LF	120	\$6.00	\$720.00
CAULK-53	beige exterior caulk between brick wall and window frame	Assumed	LF	100	\$1.80	\$180.00
BOILER-AAA1	boiler insulation, gasket, flues, bricks, etc. associated with Bryan Gas Boilers (2x): Models AB 250-5-150/54-FDG)		EA	2	\$12,000.00	\$24,000.00
TERRAZO-AAA2	beige/black terrazzo flooring		SF	3995	\$12.00	\$47,940.00
FIREHOSES-AAA	fire hoses		EA	4	\$30.00	\$120.00
FIREDOORS-AAA	fire doors with assumed asbestos-core insulation		EA	24	\$30.00	\$720.00
VAPBAR-AAA16	Exterior vapor barrier/waterproofing membrane on perimeter basement walls		SF	6000	\$30.00	\$180,000.00
WLCER-AAA4	4"x4" grey/yellow/blue/pink ceramic wall tile with associated grout & mortar		SF	6290	\$8.40	\$52,836.00
FLEX-AAA5	black flex duct connectors		EA	16	\$12.00	\$192.00
FLCER-AAA5	2"x2" pink/white/green ceramic floor tile with associated grout and mortar		SF	1230	\$8.40	\$10,332.00
BRICK-AAA6	2"x8" red brick wall with associated mortar		SF	400	\$18.00	\$7,200.00
BBMAS-AAA7	mastic behind metal baseboard		LF	780	\$2.40	\$1,872.00
WLMAS-AAA8	wall mirror mastic		SF	180	\$2.40	\$432.00
FLCER-AAA9	6"x6" red quarry floor tile with covebase and associated grout and mortar		SF	2950	\$8.40	\$24,780.00
WLCER-AAA10	6"x12" beige ceramic wall tiles with associated grout and mortar		SF	4340	\$8.40	\$36,456.00
WLMAS-AAA10	mastic behind plastic wall panels		SF	5120	\$2.40	\$12,288.00
FORMICA-AAAA11	yellow/wood-look Formica counter top with associated glue		SF	220	\$5.40	\$1,188.00
LTWTCONC-37	light grey light weight concrete over roof deck (Note: Surface only sampled. Cores required for analysis of all concrete layers.)		SF	11850	\$18.00	\$213,300.00
EL-AAA13	electrical wiring throughout		LF	17250	\$3.00	\$51,750.00
CL-AAA14	4'x8' grey coarse fibrous acoustical ceiling panel with associated glue		SF	500	\$3.00	\$1,500.00
CORE-AAA	felts, membranes and tars and aggregate baserock associated with volleyball courts		SF	800	\$6.00	\$4,800.00
VAPOR-AAA17	Vapor barriers under restrooms, laundry, former operating rooms, etc.		SF	6970	\$18.00	\$125,460.00
FREEZER-AAA18	Insulation and/or mastics associated with walk-in freezers		EA	3	\$3,000.00	\$9,000.00
VAPOR-AAA16/ CONC-AAA19	Concrete layers with vapor barrier and aggregate baserock under surface concrete comprising building slab		SF	41670	\$6.00	\$250,020.00
CLGL-25	12"x12" light grey glued on ceiling tiles (-) with fissures (glue not accessible for all samples)-glue assumed ACM		SF	29210	\$3.00	\$87,630.00
OTHER HAZMATS						
LEAD LINING-AAA	x-ray and dark rooms with lead lining in walls and doors assumed present	Assumed	SF	2000	\$4.80	\$9,600.00
LEAD PAINTS	Stabilization of Lead coatings	Present	SF	2500	\$6.00	\$15,000.00
TRANSFORMER-AAA15	PCB-containing oils (owned by PG&E)*	Assumed	EA	3	\$0.00	\$0.00
BALLASTS	Possible PCB-containing lighting ballasts	Present	EA	588	\$4.20	\$2,469.60
TUBES	Mercury-containing fluorescent tubes	Present	EA	873	\$3.00	\$2,619.00

[A] Transformers owned by PG&E. PG&E would be responsible for removal of PCB-containing fluids.

Contractor Total
Consultant Monitoring
Abatement Total

\$1,612,578.60
\$322,515.72
\$1,935,094.32

ABATEMENT COST ESTIMATE: CORDILLERAS FACILITY, REDWOOD CITY, CA
Water Tower

Room ID----- Material ID	Components	Present / not present	Units	TOTAL +/- 15%	Estimated Abatement Cost per unit	Total Estimated Cost
OTHER HAZMATS						
LEAD PAINTS	Stabilization of Lead coatings	Present	SF	750	\$12.00	\$9,000.00

Contractor Total	\$9,000.00
Consultant Monitoring	\$1,800.00
Abatement Total	\$10,800.00

ABATEMENT COST ESTIMATE: CORDILLERAS FACILITY, REDWOOD CITY, CA
Pump House

Room ID----- Material ID	Components	Asbestos: Positive, Negative, Trace, Assumed	Units	TOTAL +/- 15%	Estimated Abatement Cost per unit	Total Estimated Cost
ASBESTOS						
WALL-AAA12	8"x8"x16" tan concrete masonry unit (CMU) wall with associated mortar	Assumed	SF	380	\$18.00	\$6,840.00
EL-AAA13	electrical wiring throughout	Assumed	LF	200	\$6.00	\$1,200.00
OTHER HAZMATS						
LEAD PAINTS	Stabilization of Lead coatings	present	SF	500	\$2.40	\$1,200.00

Contractor Total	\$9,240.00
Consultant Monitoring	\$1,848.00
Abatement Total	\$11,088.00