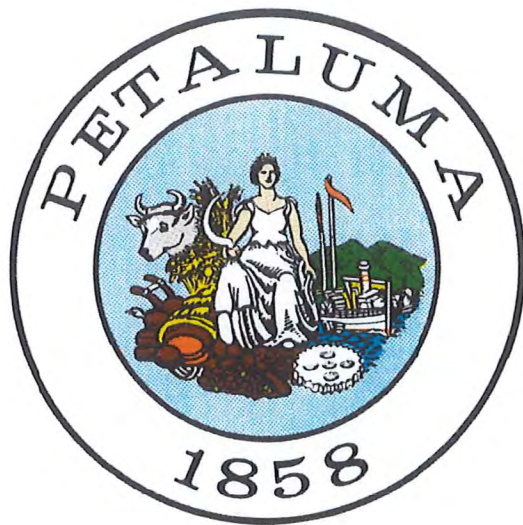


**SECTION VI**

**PLANS**



City of Petaluma, California  
CORPORATION YARD TANK DEMO - PHASE 2  
840 HOPPER ST.



MAYOR  
Teresa Barrett

VICE MAYOR  
Brian Barnacle

COUNCIL MEMBERS  
D'Lynda Fischer  
Mike Healy  
Dave King  
Kevin McDonnell  
Dennis Pocekay

CITY MANAGER  
Peggy Flynn

DIRECTOR OF PUBLIC WORKS & UTILITIES  
Christopher J. Bolt, P.E.

E66502027



LOCATION MAP  
SCALE: N.T.S.

RECORD PLAN

I \_\_\_\_\_ HEREBY STATE THAT THESE RECORD PLAN CHANGES ARE COMPLETE FROM INFORMATION FURNISHED BY THE PROJECT CONTRACTOR, SOILS ENGINEER AND MY OFFICE. I HEREBY STATE THAT TO THE BEST OF MY KNOWLEDGE THE THE WORK WAS DONE IN ACCORDANCE WITH THE FINAL APPROVED PLANS. THE ENGINEER AND THE CITY WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT. FIELD VERIFICATION OF CRITICAL FACTS AND DATA SHOULD BE MADE IF THESE DOCUMENTS ARE TO BE USED AS A BASIS FOR FUTURE WORK. ENGINEER'S SIGNATURE \_\_\_\_\_ DATE: \_\_\_\_\_

SHEET INDEX

G1 COVER SHEET  
G2 SURVEY CONTROL  
C1 SITE PLAN  
C2 PRIMARY DIGESTER PLAN  
C3 PRIMARY DIGESTER SECTION AND DETAILS  
C4 SECONDARY DIGESTER PLAN AND ELEVATION  
C5 SECONDARY DIGESTER FLOOR PLAN & SECTION  
C6 SECONDARY DIGESTER STRUCTURAL PLAN  
C7 SECONDARY DIGESTER STRUCTURAL SECTIONS  
C8 SECONDARY DIGESTER STRUCTURAL SECTIONS  
C9 MISC. DETAILS REFERENCE  
C10 CHLORINATION STATION PLAN AND ELEVATIONS  
C11 CHLORINATION STATION STRUCTURAL PLAN  
C12 PLANT EFFLUENT CONTROL BOX PLAN & SECTIONS  
C13 CHLORINATION STATION & EFFLUENT CONTROL BOX ELECTRICAL  
C14 OPERATIONS BUILDING AND LABORATORY FLOOR PLAN  
C15 OPERATIONS BUILDING AND LABORATORY INTERIOR ELEVATIONS  
C16 REFERENCED INTERIM HOUSING PLAN

**BUILDING PERMIT REVIEW SET 3/16/21  
REVISED FENCE AND PAVING 9/30/21**

☐ ALL PROJECT PLANS HAVE BEEN PREPARED AND REVIEWED TO COMPLY WITH CURRENT AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS AND/OR THE CALIFORNIA BUILDING STANDARDS CODE (CBCS).

☐ THESE PROJECT PLANS CONTAIN ELEMENT(S) THAT ARE NOT "TECHNICALLY FEASIBLE" AND/OR CAN'T MEET THE APPLICABLE CBCS BECAUSE IT WOULD CREATE AN "UNREASONABLE HARDSHIP." PLEASE SEE THE WRITTEN ANALYSIS SUPPORTING THIS DETERMINATION FILED UNDER THE PROJECT FILE.

DESIGNED BY \_\_\_\_\_  
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

DESIGNED BY:  
*Josh Minshall*  
Josh Minshall P.E. / C80830  
Sr. Civil Engineer

	SIGNATURE	DATE
CITY ENGINEER		
ENGINEERING MANAGER		
FIRE MARSHAL		
PARKS		
PLANNING		
POLICE		
UTILITY MANAGER		

DATE: MARCH 2021  
DESIGNED BY: J. MINSHALL  
DRAWN BY: J. MINSHALL  
CHECKED BY:

PROJECT NO.  
E66502027

CITY OF PETALUMA  
PUBLIC WORKS & UTILITIES  
202 N. McDowell Blvd., PETALUMA, CALIFORNIA, 94954  
PH. 707-778-4546 FAX. 707-778-4508

CORPORATION YARD TANK DEMO - PHASE 2

TITLE SHEET

SHEET  
**G1**  
1 of 18



DETAIL NUMBERING

DWG. WHERE DETAIL IS TAKEN:



DWG. WHERE DETAIL APPEARS:



IF DETAIL APPEARS ON THE SAME DWG. IT IS TAKEN FROM:



SECTION NUMBERING

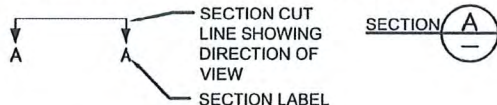
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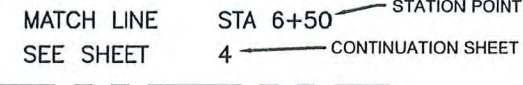
DWG. WHERE SECTION APPEARS:



IF SECTION APPEARS ON THE SAME DWG. IT IS TAKEN FROM:



MATCH LINE

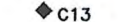
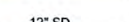
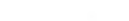
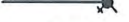


ABBREVIATIONS

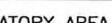
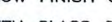
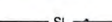
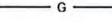
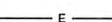
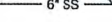
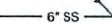
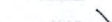
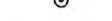
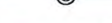
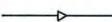
AB	AGGREGATE BASE	IRR	IRRIGATION
ABND	ABANDONED	JT	JOINT TRENCH
AC	ASPHALTIC CONCRETE	LG	LIP OF GUTTER
ACP	ASBESTOS CEMENT PIPE	MH	MANHOLE
CDF	CONTROL DENSITY FILL	MON	MONUMENT
CI	CAST IRON	PCC	PORTLAND CEMENT
CIPP	CURED IN PLACE PIPE	CONCRETE	
CL	CENTERLINE	PL	PLASTIC
CMP	CORRUGATED METAL PIPE	PVC	POLYVINYL CHLORIDE
CO	CLEAN OUT	RC	RELATIVE COMPACTION
CR	CURB RETURN	RCP	REINFORCED CONCRETE
DIP	DUCTILE IRON PIPE	PIPE	
EG	EXISTING GRADE	SS	SANITARY SEWER
EL	ELEVATION	SQFT	SQUARE FEET
ELEC	ELECTRIC	STA	STATION
EP	EDGE OF PAVEMENT	STL	STEEL
EX	EXISTING	SD	STORM DRAIN
FC	FACE OF CURB	SL	STREET LIGHT
FDC	FIRE DEPT CONNECTION	TEL	TELEPHONE
FG	FINISH GRADE	TC	TOP OF CURB
FH	FIRE HYDRANT	TP	TOP OF PIPE
FL	FLOW LINE	TV	TV CABLE
FO	FIBER OPTIC CABLE	TYP	TYPICAL
G	GAS	UTILP	UTILITY POLE
HDPE	HIGH DENSITY	VCP	VITRIFIED CLAY PIPE
POLYETHYLENE		W	WATER
INV	INVERT	WS	WATER SERVICE

SYMBOLS

PROPOSED



EXISTING



AIR RELIEF VALVE

BLOWOFF

FIRE HYDRANT

VALVE

ZONE VALVE

REDUCER

CLEAN OUT

MANHOLE

WATER METER

CATCH BASIN

CATCH BASIN W/ GALLERY

INLET

END CAP

UTILITY POLE

UTILITY BOX

MONUMENT

ADDRESS

SEWER MAIN AND LATERAL

SEWER LATERAL TAP ACTIVE

SEWER LATERAL TAP CAPPED

WATER MAIN

STORM DRAIN

ELECTRIC CABLE

GAS MAIN

TELEPHONE CABLE

TV CABLE

STREET LIGHT AND CABLE

CONSTRUCTION SIGN

RIGHT OF WAY LINE

TO BE ABANDONED

TO BE REMOVED

BORE LOCATION

STRUCTURE DEMOLITION

DEMOLISH STRUCTURE AND MATERIALS ABOVE GRADE

DEMOLISH FROM GROUND LEVEL TO 4' BELOW FINISH GRADE

FILL WITH CLASS 2 AB COMPACTED TO 90% RELATIVE COMPACTION WHERE PRACTICAL. OTHERWISE FILL WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM). LEAVE NO VOIDS.

OPERATIONS BUILDING AND LABORATORY

INTERIOR DEMOLITION

LABORATORY AREA, REMOVE CABINETRY

APPROX. TILE REMOVAL AREA

REDORD DRAWING REFERENCE

NO.	DATE	DESCRIPTION	BY

PROJECT RESOURCE DATA (FOR CITY USE)

PROJECT START	
PROJECT END	
PROJECT CONTRACTOR	
CONTRACTOR'S SUPER.	
UTILITY CONT.	
UTILITY CONT.	
UTILITY CONT.	
SEWER PIPE, MH, CO	
STORM DRAIN PIPE, INLET	
WATER PIPE, VALVES, HDY.	
PROJECT MANAGER	
PROJECT INSPECTOR	
OTHER	

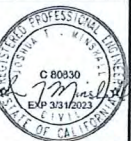
DATE: MARCH 2021

DESIGNED BY: J MINSHALL

DRAWN BY: J MINSHALL

CHECKED BY:

PROJECT NO.  
E66502027



CITY OF PETALUMA  
PUBLIC WORKS & UTILITIES  
202 N. McDowell Blvd., PETALUMA, CALIFORNIA 94954  
PH. 707-778-4546 FAX. 707-778-4508

CORPORATION YARD TANK DEMO - PHASE 2

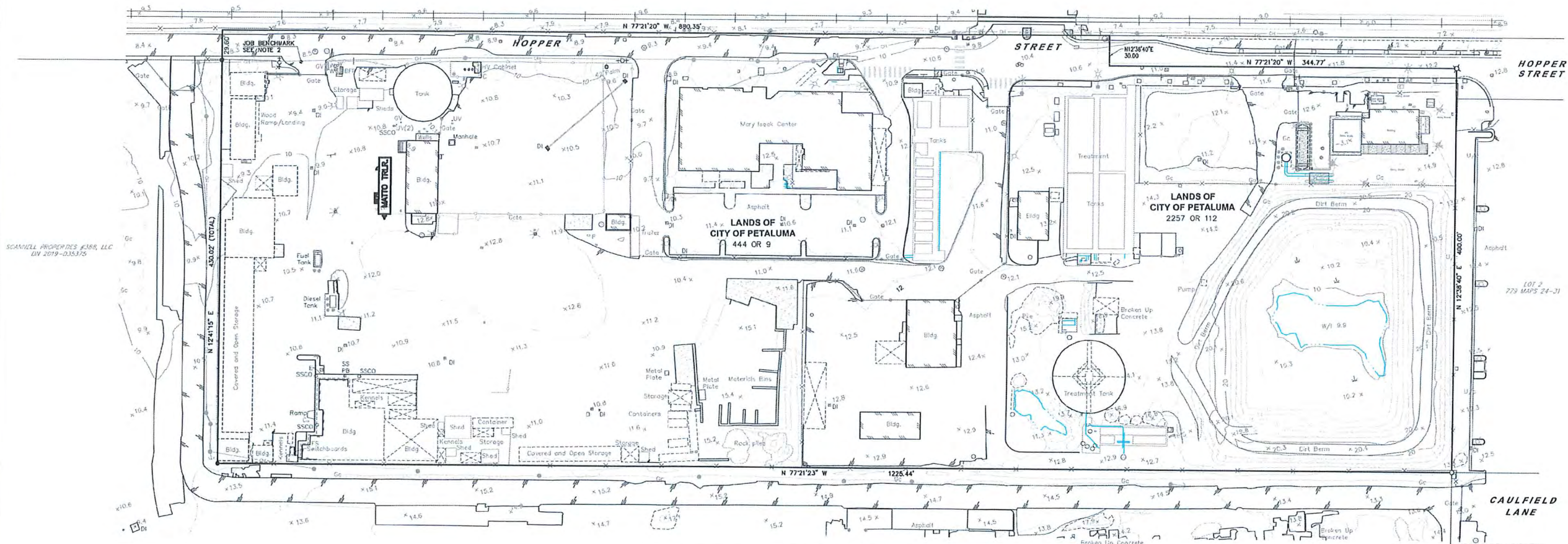
ABBREVIATIONS AND SYMBOLS - TYPICAL

SHEET

G2

2 OF 18





SCANNELL PROPERTIES #188, LLC  
DN 2019-035375

SCANNELL PROPERTIES #188, LLC  
DN 2019-035375

### NOTES

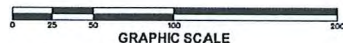
- TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED ON AERIAL PHOTOGRAPHY AND TOPOGRAPHIC MAPPING BY AMERICAN AERIAL MAPPING, INC. PERFORMED IN JANUARY AND FEBRUARY 2020. ADDITIONAL FILL-IN TOPOGRAPHIC MAPPING WAS PERFORMED BY STEVEN J. LAFRANCHI & ASSOCIATES, INC. IN MARCH AND JUNE OF 2020.
- VERTICAL DATUM: ELEVATION IS BASED ON FOUND MONUMENT "CAULFIELD" WHICH IS PART OF THE CSRC CENTRAL COAST HEIGHT MODERNIZATION PROJECT 2007-2008. ELEVATION 11.42 NAVD83 DATUM. A LOCAL JOB BENCHMARK HAS BEEN ESTABLISHED ON SITE, BEING A MAG NAIL & WASHER, STAMPED "S&S CONTROL" IN ASPHALT DRIVEWAY AT NORTHWEST CORNER OF SUBJECT PARCEL, ELEVATION=9.01, NAVD 1983 DATUM.
- HORIZONTAL DATUM: BASED ON A BOUNDARY RETRACEMENT SURVEYS BY STEVEN LAFRANCHI & ASSOCIATES PER 779 MAPS 24-31, SCR, AND 797 MAPS 12-23, SCR.
- THE MAPPING OF UNDERGROUND UTILITIES ON SUBJECT PARCEL WAS BEYOND THE SCOPE OF SERVICES CONTRACTED FOR.
- THIS DOCUMENT AND THE INFORMATION CONTAINED HEREIN ARE THE PROPERTY OF STEVEN J. LAFRANCHI & ASSOCIATES, INC. UNAUTHORIZED USE, COPYING, DISCLOSURE OR PUBLICATION BY ANY METHOD IS PROHIBITED WITHOUT THE WRITTEN APPROVAL OF STEVEN J. LAFRANCHI & ASSOCIATES, INC. STEVEN J. LAFRANCHI & ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR ANY UNAUTHORIZED DUPLICATION OF INFORMATION THAT MAY APPEAR ON ANOTHER PLAN OR MAP.
- NO TITLE REPORT WAS REVIEWED IN CONJUNCTION WITH THIS MAPPING. IT IS RECOMMENDED THAT A TITLE REPORT BE RECEIVED FROM THE OWNER TO VERIFY THE EXISTENCE OF ANY ADDITIONAL EASEMENTS OF RECORD OR LOT LINE ADJUSTMENTS THAT MAY HAVE ALTERED THE INFORMATION SHOWN HEREON PRIOR TO ANY DESIGN AND/OR CONSTRUCTION.
- THIS MAP IS PROVIDED IN AN ELECTRONIC FORMAT (ON COMPUTER DISK) AS A COURTESY TO THE CLIENT. THE DELIVERY OF THE ELECTRONIC FILE DOES NOT CONSTITUTE THE DELIVERY OF OUR PROFESSIONAL WORK PRODUCT. THE SIGNED PRINT DELIVERED WITH THIS ELECTRONIC FILE CONSTITUTES OUR PROFESSIONAL WORK PRODUCT, AND IN THE EVENT THE ELECTRONIC FILE IS ALTERED, THE PRINT MUST BE REFERRED TO FOR THE ORIGINAL AND CORRECT SURVEY INFORMATION. WE SHALL NOT BE RESPONSIBLE FOR ANY MODIFICATIONS MADE TO THE ELECTRONIC FILE, OR FOR ANY PRODUCTS DERIVED FROM THE ELECTRONIC FILE WHICH ARE NOT REVIEWED, SIGNED AND SEALED BY US.

### LEGEND

- SET 1/2" IRON PIPE & YELLOW PLASTIC PLUG, STAMPED "PLS 0360"
- SET MAG NAIL & BRASS WASHER, STAMPED "PLS 0360"
- PROPERTY LINE
- EXISTING CONTOURS
- FENCE, POST AND WIRE
- CYCLONE FENCE
- OVERHEAD UTILITIES
- EDGE OF PAVEMENT
- TREE DRIPLINE, APPROXIMATE
- CONCRETE
- EDGE OF WATER
- PIPING
- TRAIN TRACKS
- BUILDING ROOF LINE
- BUILDING LINE
- TREE/BRUSH DRIPLINE
- PILES
- ROCK PILE
- MANHOLE
- JOINT/POWER POLE
- BOLLARD
- LIGHTS
- DROP INLET
- SIGN
- WATER VALVE
- SWAMP AREA
- CANOPY AND CANVAS ROOFS, BUILDING ENTRANCE OVERHANGS
- SPOT ELEVATION
- FIRE HYDRANT
- ELECTRIC PULL BOX
- TREE PLANTERS

### ABBREVIATIONS

- BFP BACK FLOW PREVENTER
- CB COMMUNICATION BOX
- DN DROP INLET
- ED DOCUMENT NUMBER
- FS ELECTRIC BOX
- GS FIRE SPRINKLERS
- GC GROUND COVER
- GM GAS METER
- GV GAS VALVE
- HV HIGH VOLTAGE
- JBM JOB BENCHMARK
- JP JOINT POLE
- OH OVERHEAD LINES
- P REMAINT PIPING
- PP PULL BOX
- PP POWER POLE
- SS SANITARY SEWER
- SSCO SANITARY SEWER CLEAN OUT
- UNO UNLESS NOTED OTHERWISE
- UV UTILITY VALVE
- WJL WATER LEVEL
- WV WATER VALVE



### EROSION AND SEDIMENT CONTROL

DRAINAGE FACILITIES APPROXIMATE. CONTRACTOR TO VERIFY IN FIELD AND PROVIDE DRAIN INLET PROTECTION AND STANDARD BEST MANAGEMENT PRACTICE EROSION CONTROLS PER LOCAL AND STATE STANDARDS.



STEVEN J. LAFRANCHI & ASSOCIATES, INC.  
CIVIL ENGINEERS - LAND SURVEYORS  
LAND PLANNERS - LANDSCAPE ARCHITECTS  
PETALUMA THEATRE SQUARE  
140 SOUTH MAIN STREET, SUITE 312  
PETALUMA, CA 94952  
(707) 762-3122 FAX (707) 762-3239

DATE: 2020.07.21  
SCALE: 1" = 50'  
DESIGN: D.B.  
DRAWN: D.B.  
CHECK: S.A.  
JOB: 192116  
SHEET

1  
OF 1 SHEETS

REVISIONS	BY

### SITE TOPOGRAPHY

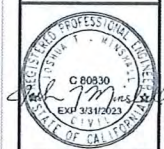
LANDS OF THE CITY OF PETALUMA  
500 HOPPER STREET APN 136-010-024  
PETALUMA CALIFORNIA

### CORPORATION YARD TANK DEMO - PHASE 2

### SURVEYOR'S SITE REPORT

DATE: MARCH 2021  
DESIGNED BY: J. MINSHALL  
DRAWN BY: J. MINSHALL  
CHECKED BY:

PROJECT NO.  
E66502027



CITY OF PETALUMA  
PUBLIC WORKS & UTILITIES  
202 N. McDowell Blvd., PETALUMA, CALIFORNIA 94954  
PH. 707-778-4546 FAX 707-778-4508

SHEET  
G3  
3 OF 18





#### SCOPE OF WORK:

1. Contractor to confirm all utilities are disconnected before starting demolition work.
2. Demolish to min. 4 ft below finished grade, remove, backfill and provide AC surface for demo area and surrounds for complete and uniform paved areas. Finish elevation to be set based on minimum 0.5% slope to existing drains.
3. Plug abandoned utilities.
4. Remove all cabinetry and tiling in Lab portion of former Operations Building; lights to remain intact.
5. Remove and dispose of all non-ceramic flooring (first and second floor) in former Operations Building, including asbestos containing material.
6. Contractor to install temporary fence and gates located per City's direction.
7. Two existing 6 ft leaf gates for access by City.
8. Contractor to protect all DIs.
9. Demolish manhole to depth of 4 ft below grade.
10. Reset lightpole base to match surrounding asphalt surface.
11. Demolish valve to a depth of 4 ft below grade.
12. Reset fence to match existing fence at grade, SEE SHEET C16.
13. Contractor to provide erosion control and dust suppression BMPs
14. Contractor to provide provide and follow waste reduction and recycling plan
15. Bid Alternative: Install 24"x36" DI and 24" HDPE storm drain

DATE: MARCH 2021  
 DESIGNED BY: J. MINSHALL  
 DRAWN BY: J. MINSHALL  
 CHECKED BY:

PROJECT NO.  
 E66502027



**CITY OF PETALUMA**  
 PUBLIC WORKS & UTILITIES  
 202 N. McDowell Blvd., PETALUMA, CALIFORNIA 94954  
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CORPORATION YARD TANK DEMO - PHASE 2

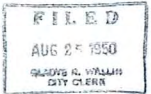
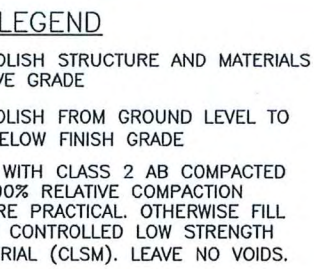
PROJECT SITE PLAN

SHEET

**C1**

3 OF 18





Scale  $\frac{1}{4}" = 1'-0"$

CITY OF PETALUMA CALIFORNIA	
SEWAGE WORKS ENLARGEMENTS	
PLANT LAYOUT & SLUDGE DIGESTER PLAN	
Harry N. Jenks Consulting Sanitary Engineer Palo Alto, Calif.	
Drawn by: J.H.J.	Scale: As Shown
Checked by: H.N.J.	Date: July 1950

PRIMARY DIGESTER PLAN

DESIGNED BY: J MINSHALL

DRAWN BY: J MINSHALL

CHECKED BY:

PROJECT NO.  
6502027



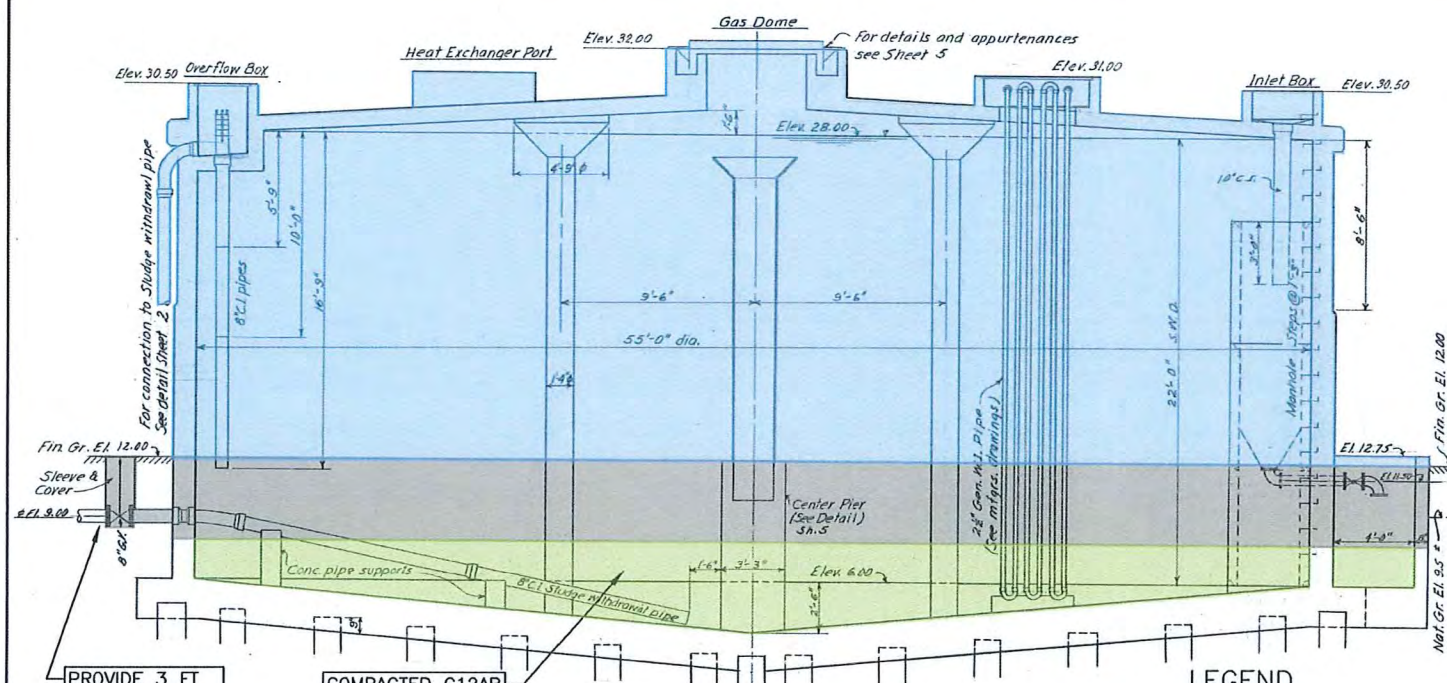
**CITY OF PETALUMA**  
**PUBLIC WORKS & UTILITIES**  
202 N. McDowell Blvd., PETALUMA, CALIFORNIA, 94954  
PH. 707-778-4546 FAX. 707-778-4508

**MEET**

C2

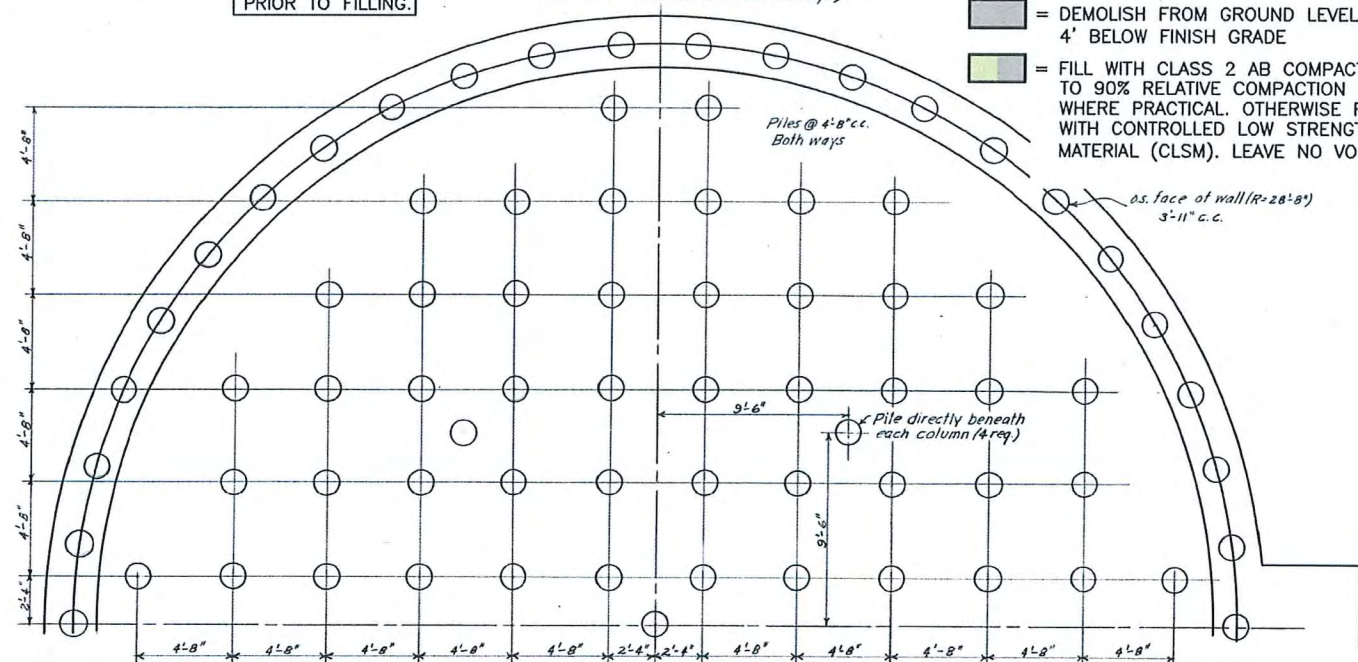
4 OF 18





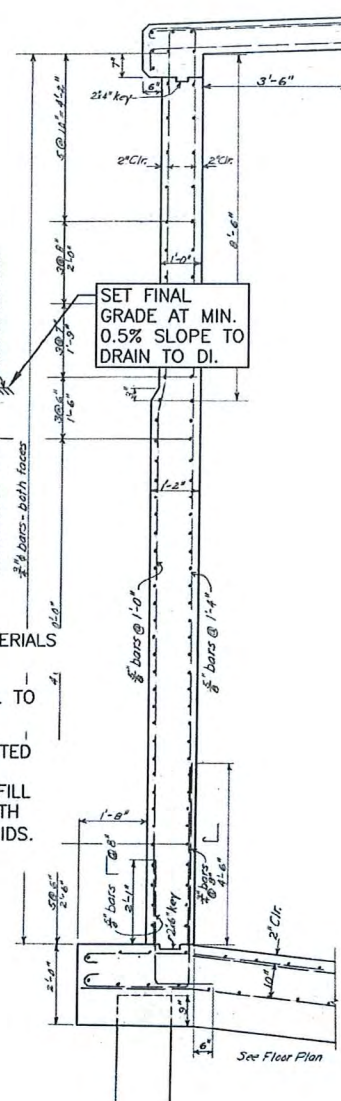
**DIGESTER SECTION**  
Scale:  $\frac{1}{4}'' = 1'-0''$   
(Part of section offset to cut heat exchanger)

- LEGEND**
- = DEMOLISH STRUCTURE AND MATERIALS ABOVE GRADE
  - = DEMOLISH FROM GROUND LEVEL TO 4' BELOW FINISH GRADE
  - = FILL WITH CLASS 2 AB COMPACTED TO 90% RELATIVE COMPACTION WHERE PRACTICAL. OTHERWISE FILL WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM). LEAVE NO VOIDS.

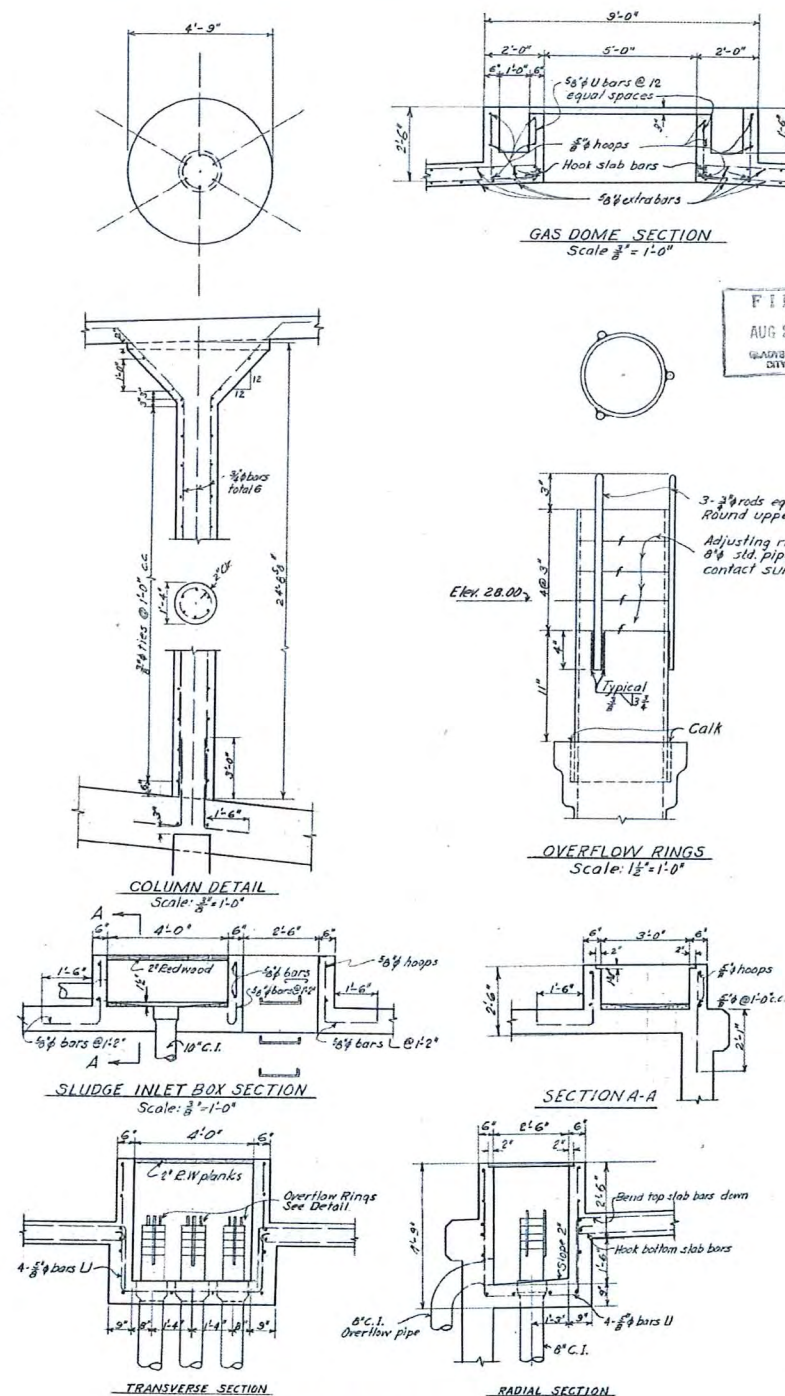


**PILE LAYOUT**  
Scale:  $\frac{1}{4}'' = 1'-0''$

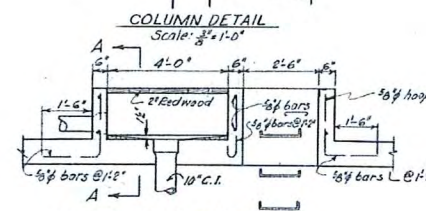
**NOTE** regarding Pile lengths -  
The Contractor's attention is drawn to the fact that assumed length of all piles for Base Bid shall be sixty feet (60') from tip to cut-off (Total No. piles req. = 147).



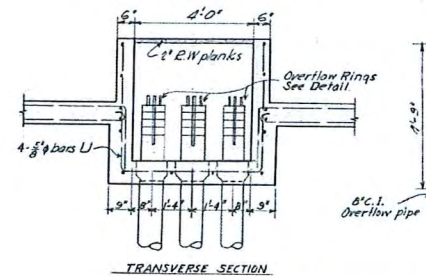
**TYPICAL WALL SECTION**  
Scale:  $\frac{1}{2}'' = 1'-0''$



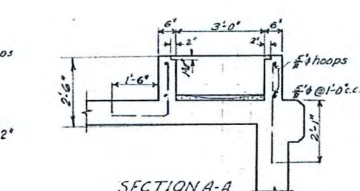
**OVERFLOW RINGS**  
Scale:  $1\frac{1}{2}'' = 1'-0''$



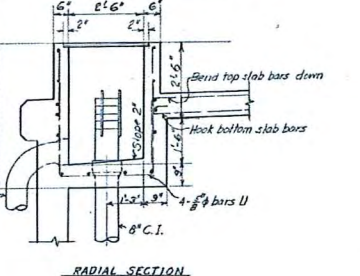
**SLUDGE INLET BOX SECTION**  
Scale:  $\frac{3}{8}'' = 1'-0''$



**TRANSVERSE SECTION**  
Scale:  $\frac{3}{8}'' = 1'-0''$



**SECTION A-A**  
Scale:  $\frac{3}{8}'' = 1'-0''$



**RADIAL SECTION**  
Scale:  $\frac{3}{8}'' = 1'-0''$

*Leland H. Myers*  
Mayor

CITY OF PETALUMA CALIFORNIA	
SEWAGE WORKS ENLARGEMENTS	
SLUDGE DIGESTER - SECTION, FOUNDATION PLAN & STRUCT. DETAILS	
Harry N. Jenks Consulting Sanitary Engineer Palo Alto, Calif.	
Drawn by: J.H.J.	Scale: As Shown
Checked by: H.N.J.	Date: July 1950

3  
OF  
6

3-69

CORPORATION YARD TANK DEMO - PHASE 2

PRIMARY DIGESTER SECTION AND DETAILS

DATE: MARCH 2021  
DESIGNED BY: J. MINSHALL  
DRAWN BY: J. MINSHALL  
CHECKED BY:

PROJECT NO.  
E66502027



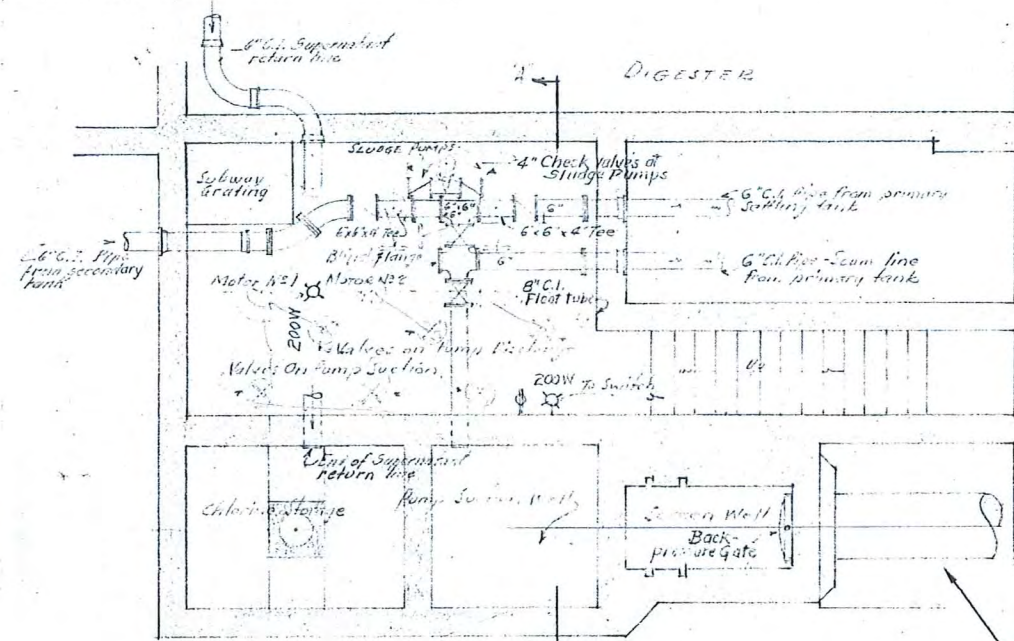
CITY OF PETALUMA  
PUBLIC WORKS & UTILITIES  
202 N. McDowell Blvd., PETALUMA, CALIFORNIA 94954  
PH. 707-778-4546 FAX. 707-778-4508

SHEET  
**C3**  
5 OF 18







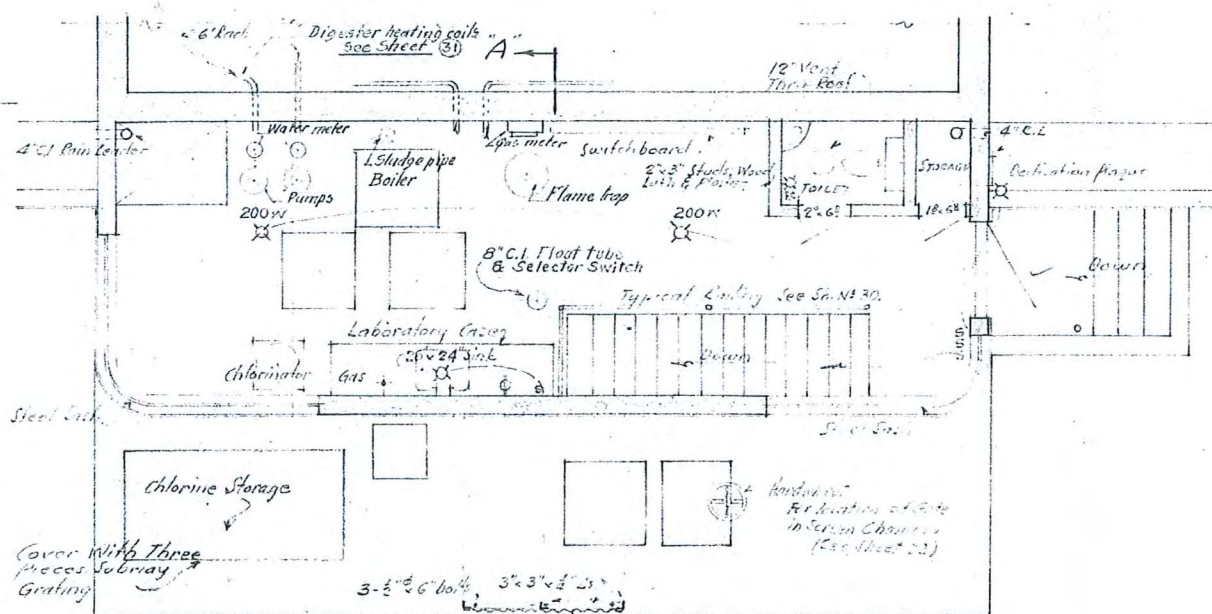


MOTOR FLOOR PLAN

PROVIDE 3 FT CONCRETE PLUG ON BURIED UTILITY LINES.

REMOVE ALL MATERIALS AND UTILITY LINES PRIOR TO FILLING. DEMOLISH SUFFICIENT TO COMPLETELY FILL BELOW GRADE, LEAVE NO VOIDS.

SET FINAL GRADE AT MIN. 0.5% SLOPE TO DRAIN TO DI.



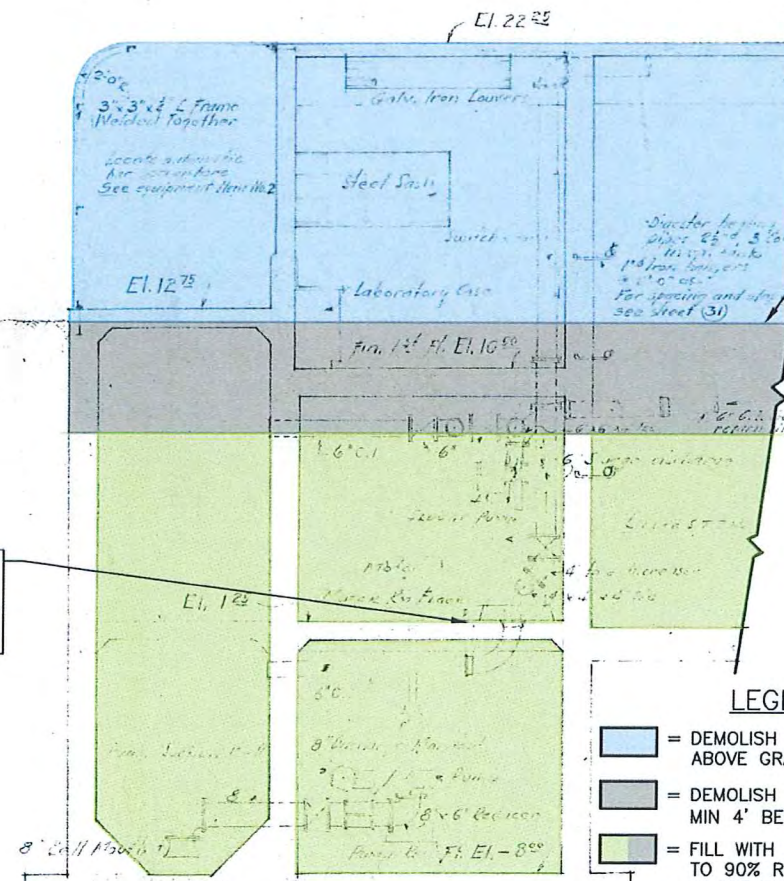
FIRST FLOOR PLAN

Scale 1/4" = 1'-0"



LABORATORY CASE

DEMOLISH SUFFICIENT TO COMPLETELY FILL BELOW GRADE LEAVE NO VOIDS.

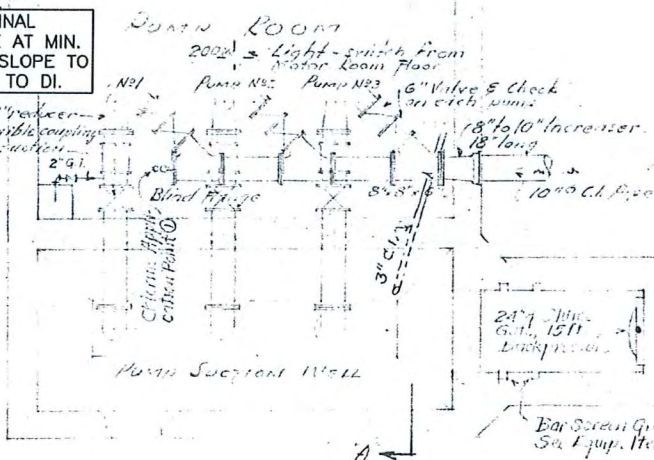


SECTION A-A

LEGEND

- = DEMOLISH STRUCTURE AND MATERIALS ABOVE GRADE
- = DEMOLISH FROM GROUND LEVEL TO MIN 4' BELOW FINISH GRADE
- = FILL WITH CLASS 2 AB COMPACTED TO 90% RELATIVE COMPACTION WHERE PRACTICAL. OTHERWISE FILL WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM). LEAVE NO VOIDS.

PLAN OF PUMP ROOM



PROVIDE 3 FT CONCRETE PLUG ON BURIED UTILITY LINES.

Approved: *Harry N. Jenks*  
Consulting Engineer  
Adopted by City Council November 3, 1937

*Gladys V. Roberts*  
City Clerk  
*J. S. Woodson*  
Mayor

REVISED FEB. 2-38 [PILES]

CITY OF PETALUMA  
California  
MUNICIPAL SEWAGE DISPOSAL PROJECT  
SEWAGE WORKS  
PUMPING AND CONTROL HOUSE EQUIPMENT  
Harry N. Jenks  
Consulting Sanitary Engineer  
Berkeley, California

Drawn: D.E. Reinsehl  
Checked: *PHG*  
Scale: 1/4 in. = 1 ft.  
Date: October 16, 1937

3-136

CORPORATION YARD TANK DEMO - PHASE 2

SECONDARY DIGESTER FLOOR PLAN & SECTION

SHEET

C5

7 OF 18

DATE: MARCH 2021

DESIGNED BY: J. MINSHALL

DRAWN BY: J. MINSHALL

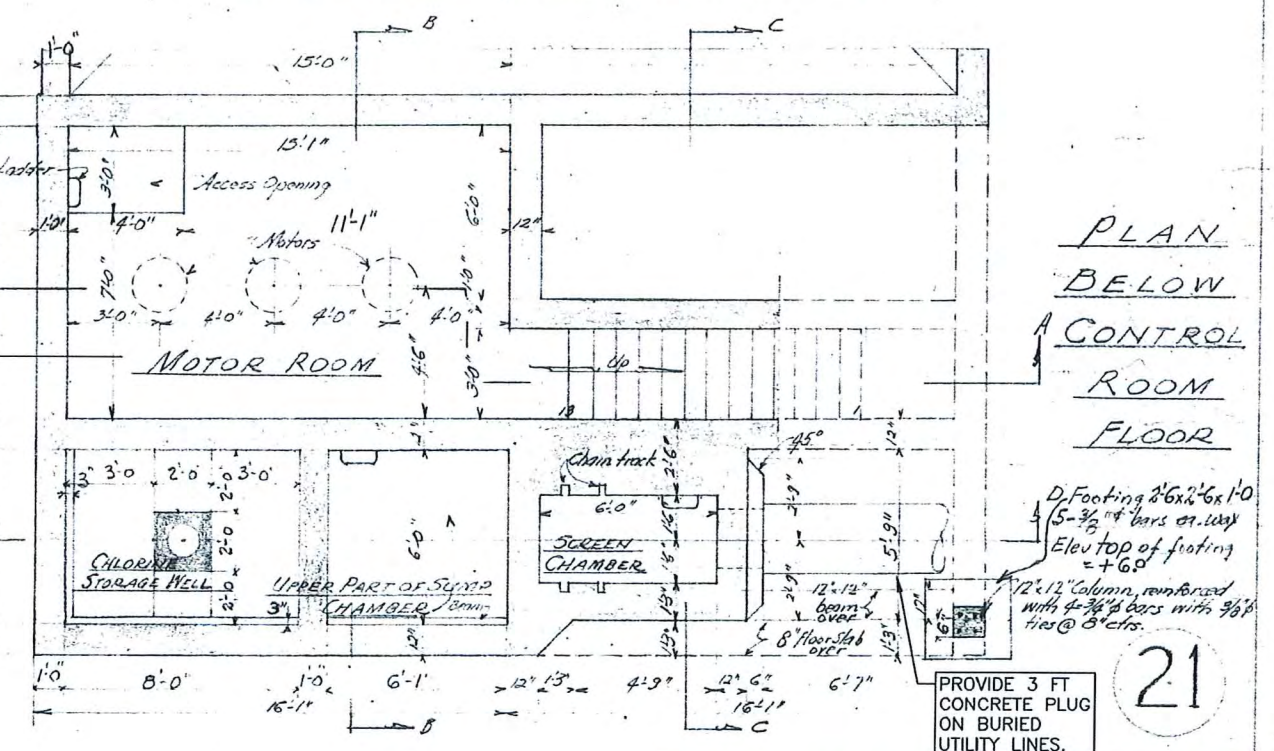
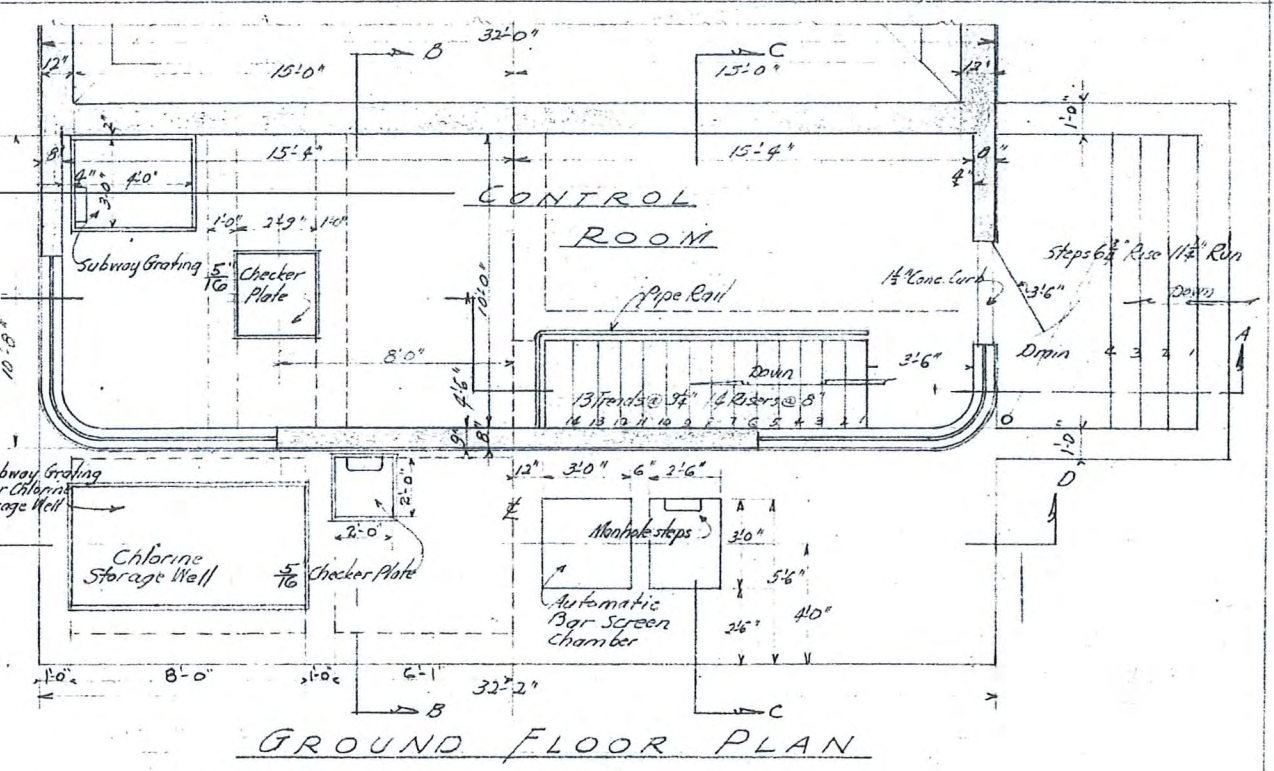
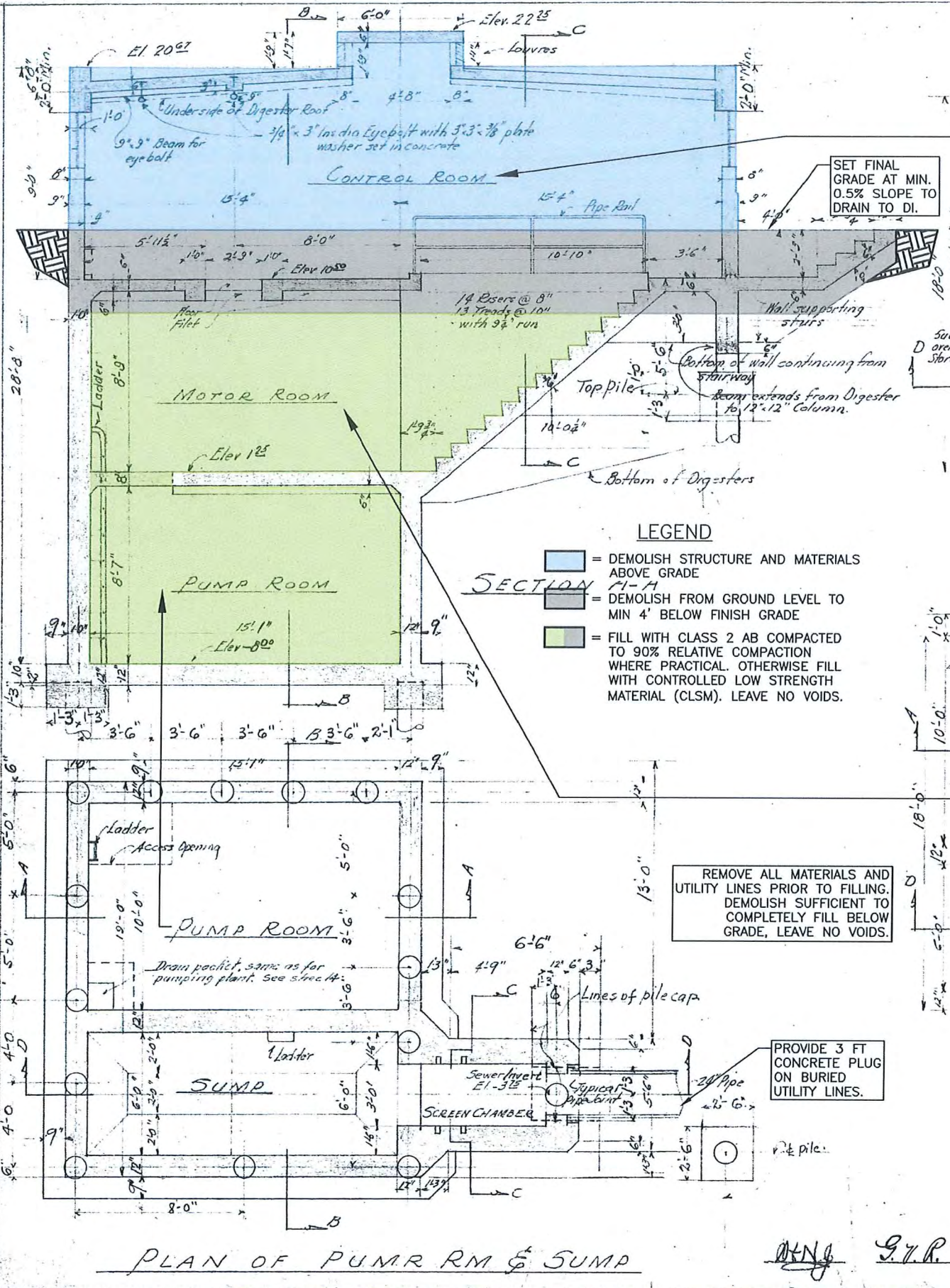
CHECKED BY:

PROJECT NO.  
E66502027



CITY OF PETALUMA  
PUBLIC WORKS & UTILITIES  
202 N. McDowell Blvd., PETALUMA, CALIFORNIA, 94954  
PH: 707-778-4546 FAX: 707-778-4508



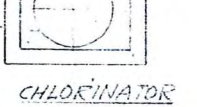
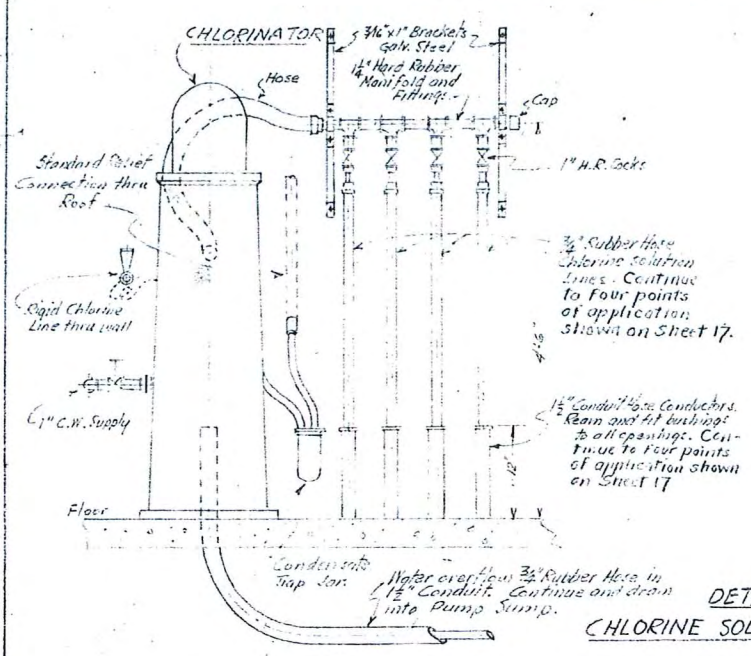
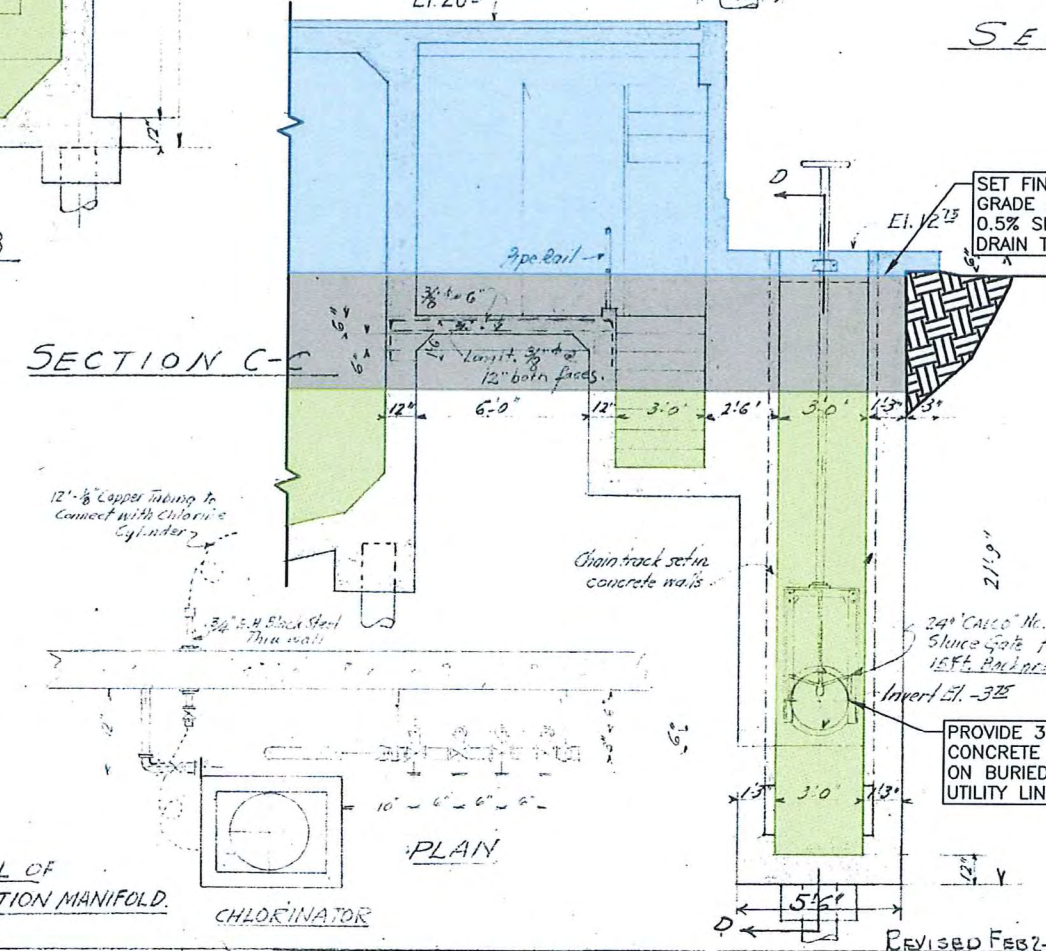
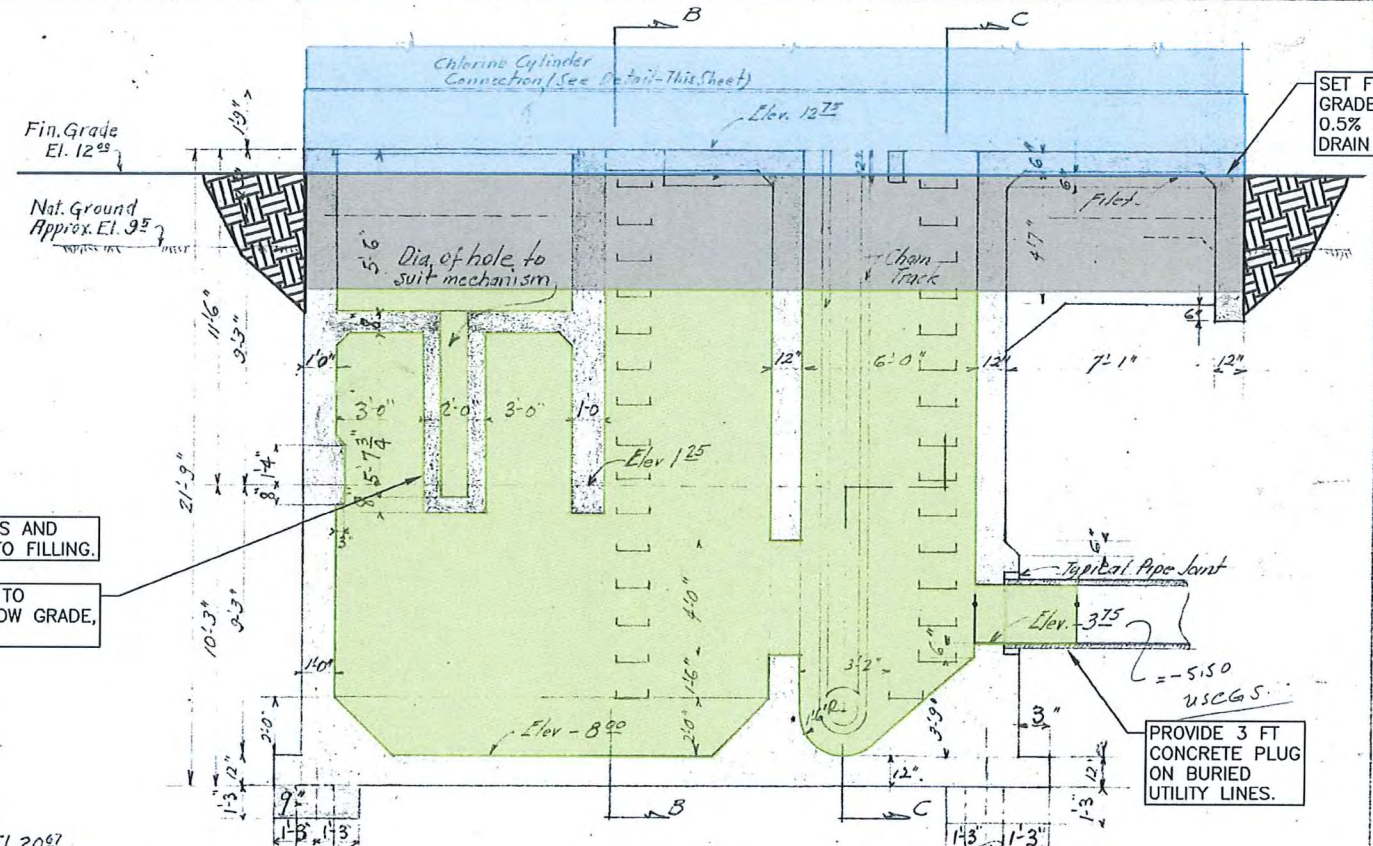
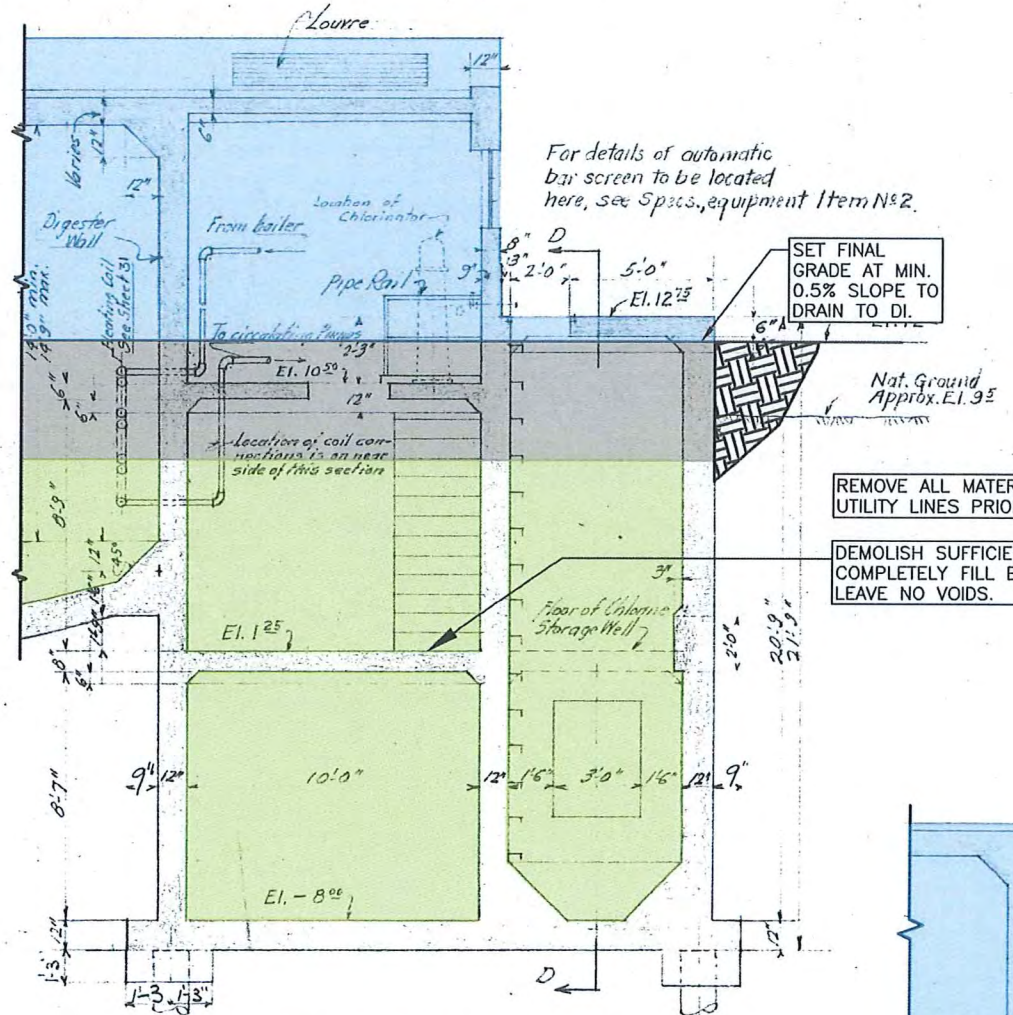


Approved: *Harry N. Jenks*  
 Consulting Engineer  
 Adopted by City Council November 3, 1937  
*Gladys V. Roberts*  
 City Clerk  
*J. J. [Signature]*  
 Mayor

REVISED FEB 2-38 [PILES]

CITY OF PETALUMA California	
MUNICIPAL SEWAGE DISPOSAL PROJECT	
PUMPING AND CONTROL HOUSE STRUCTURAL CONCRETE PLANS AND SECTIONS	
Harry N. Jenks Consulting Sanitary Engineer Berkeley, California	
Drawn: H.B. Hammill	Scale: 1/4 in. = 1 ft.
Checked: <i>[Signature]</i>	Date: October 16, 1937





CHLORINATOR

PLAN

DETAIL OF CHLORINE SOLUTION MANIFOLD

CHLORINATOR

CHLORINATOR

CHLORINATOR

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CHLORINATOR

- SECTION D-D**
- LEGEND**
- [Blue hatched] = DEMOLISH STRUCTURE AND MATERIALS ABOVE GRADE
  - [Grey hatched] = DEMOLISH FROM GROUND LEVEL TO MIN 4' BELOW FINISH GRADE
  - [Green hatched] = FILL WITH CLASS 2 AB COMPACTED TO 90% RELATIVE COMPACTION WHERE PRACTICAL. OTHERWISE FILL WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM). LEAVE NO VOIDS.
- Approved: *[Signature]*
- Adopted by City C:

*Gladys V. Roberts*  
City Clerk

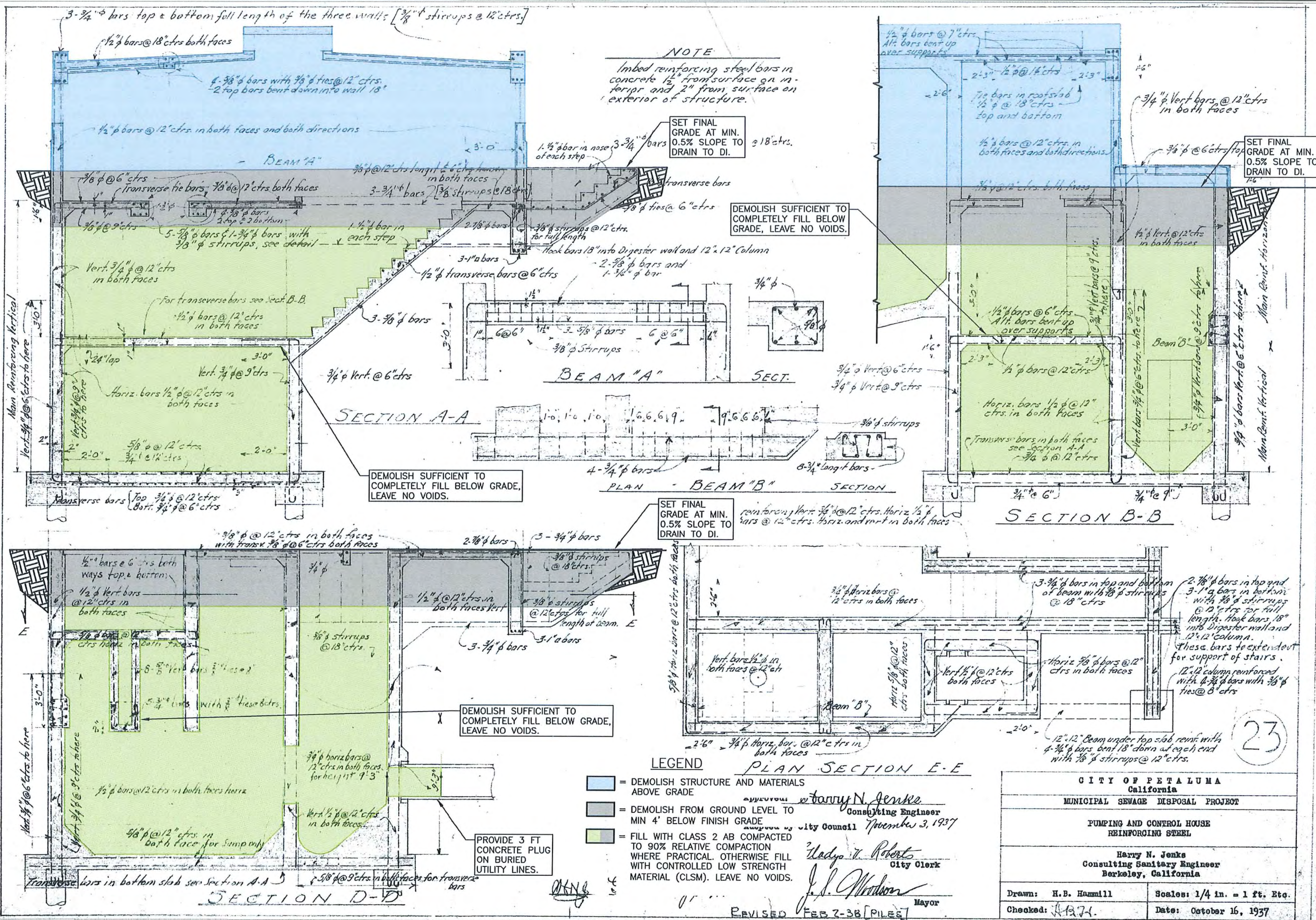
*J. L. [Signature]*  
Mayor

CITY OF PETALUMA California	
MUNICIPAL SEWAGE DISPOSAL PROJECT	
PUMPING AND CONTROL HOUSE STRUCTURAL CONCRETE SECTIONS AND SCREEN CHAMBER DETAILS	
Harry N. Jenks Consulting Sanitary Engineer Berkeley, California	
Drawn: H.B. Hammill	Scale: 1/4 in. = 1 ft.
Checked: <i>[Signature]</i>	Date: October 16, 1937

CORPORATION YARD TANK DEMO - PHASE 2

SECONDARY DIGESTER STRUCTURAL SECTIONS





CITY OF PETALUMA  
PUBLIC WORKS & UTILITIES  
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PH. 707-778-4546 FAX 707-778-4508

CORPORATION YARD TANK DEMO - PHASE 2

SECONDARY DIGESTER STRUCTURAL SECTIONS

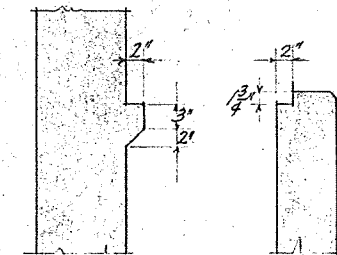
DATE: MARCH 2021  
DESIGNED BY: J. MINSHALL  
DRAWN BY: J. MINSHALL  
CHECKED BY:

PROJECT NO.  
E66502027



CITY OF PETALUMA California	
MUNICIPAL SEWAGE DISPOSAL PROJECT	
PUMPING AND CONTROL HOUSE REINFORCING STEEL	
Harry N. Jenks Consulting Sanitary Engineer Berkeley, California	
Drawn: H.B. Hammill	Scales: 1/4 in. = 1 ft. Etc.
Checked: J.B. 74.	Date: October 16, 1937

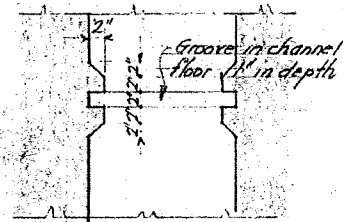




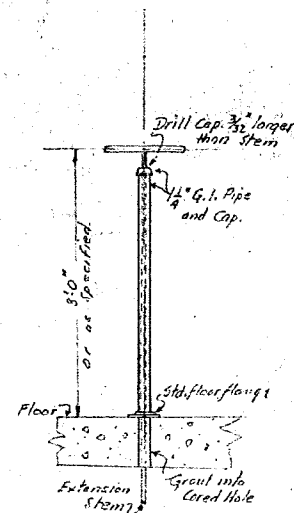
At Structural Walls At Channel Walls

### TIMBER COVER SUPPORTS

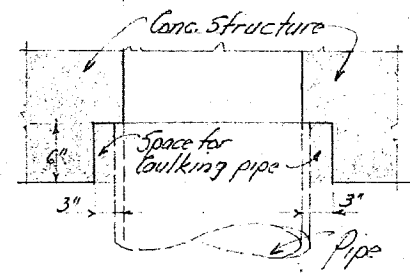
TYPICAL DETAILS



### STOP PLANK GROOVES



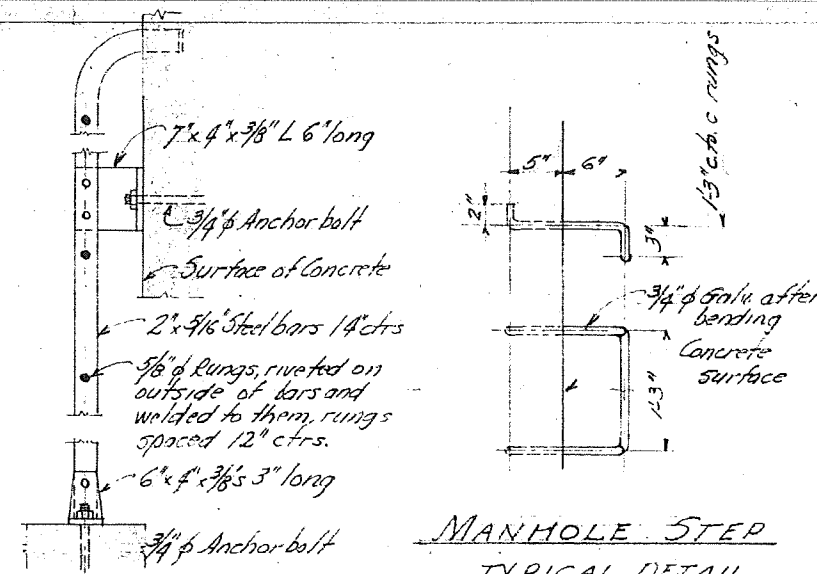
TYPICAL GUIDE FOR VALVE AND SLUICE GATE STEMS



### CONNECTION OF PIPES TO CONCRETE

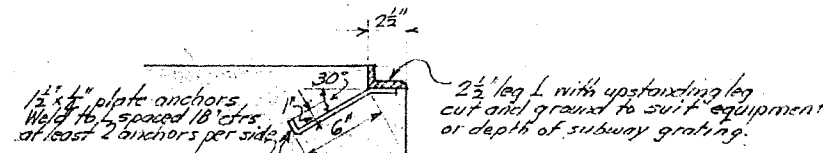
TYPICAL DETAIL  
This applies to all structures

Where bell-end of pipe, set flush with face of concrete, is not provided. Caulk with G-K Compound or equal

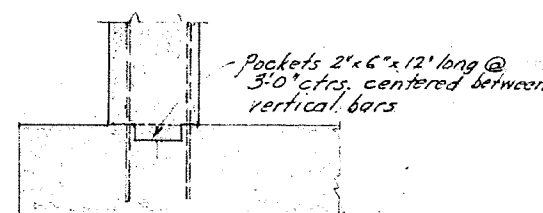


### STEEL LADDER TYPICAL DETAIL

### MANHOLE STEP TYPICAL DETAIL



### STEEL FRAME FOR FLOOR OPENINGS TYPICAL DETAIL



### TYPICAL CONSTRUCTION JOINT FOR VERT. WALL ON BASE

## GENERAL NOTES FOR ALL STRUCTURES

- Redwood shall be "Irrigation Grade," graded in accordance with the "Grading Rules for Structural Grades of California Redwood" of the Calif. Redwood Association effective 1-15-30.
- Douglas fir shall be "Structural Grade," graded in accordance with Standard Grading and Dressing Rules No. 10 of the West Coast Lumbermen's Association effective July 1-1934.
- Unless otherwise noted, lap reinforcing bars 50 diam.
- Contractor to provide cored holes and openings in concrete for all pipework and equipment.
- Any bars shown extending thru openings for pipes shall be bent around such openings.
- All openings in walls to have 2-3/4 inch bars in each face of opening. Extend each end of bar into wall 3'-0" past opening.

### 7. TABLE OF TYPICAL WALL REINFORCING

WALL THICKNESS	WHERE PLACED	VERTICAL BARS	HORIZONTAL BARS
6"	on $\phi$	1/2" $\phi$ @ 12' ctrs.	1/2" $\phi$ @ 12' ctrs.
8"	Each face	1/2" $\phi$ @ 18" each face	1/2" $\phi$ @ 12" each face
10"	Each face	1/2" $\phi$ @ 14" each face	1/2" $\phi$ @ 10" each face

- Beveled washers to be provided for all bolts in flanges of Ls and Is.
- Heads and nuts of all bolts bearing against wood to have standard malleable iron washers.
- Structures must be founded on firm soil. If the existing soil is not satisfactory to the Engineer, he shall have it removed and suitable soil built up in 6" layers thoroughly rolled, shall be used to replace it.
- All concrete shall contain 2 1/2 lbs. of "Celite" diatomaceous earth for every 100 lbs. of cement.
- Except where pipe railing is provided, the Contractor shall install Blaw-Knox subway grating, with 1/2" x 3/4" main bars, over all floor openings.

Approved: Harry N. Jenks  
Consulting Engineer  
Adopted by City Council November 3, 1937

Gladys V. Roberts  
City Clerk  
J. S. Woodson  
Mayor

CITY OF PETALUMA California	
MUNICIPAL SEWAGE DISPOSAL PROJECT	
MISCELLANEOUS STRUCTURAL ITEMS AND DETAILS	
Harry N. Jenks Consulting Sanitary Engineer Berkeley, California	
Drawn: H.B. Hamill	Scales: Various
Checked: <u>H.B. Hamill</u>	Date:

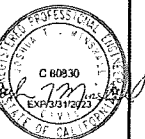
DATE: MARCH 2021

DESIGNED BY: J. MINSHALL

DRAWN BY: J. MINSHALL

CHECKED BY:

PROJECT NO.  
E66502027



CITY OF PETALUMA  
PUBLIC WORKS & UTILITIES  
202 N. McDowell Blvd., PETALUMA, CALIFORNIA, 94954  
PH. 707-778-4546 FAX 707-778-4508

CORPORATION YARD TANK DEMO - PHASE 2

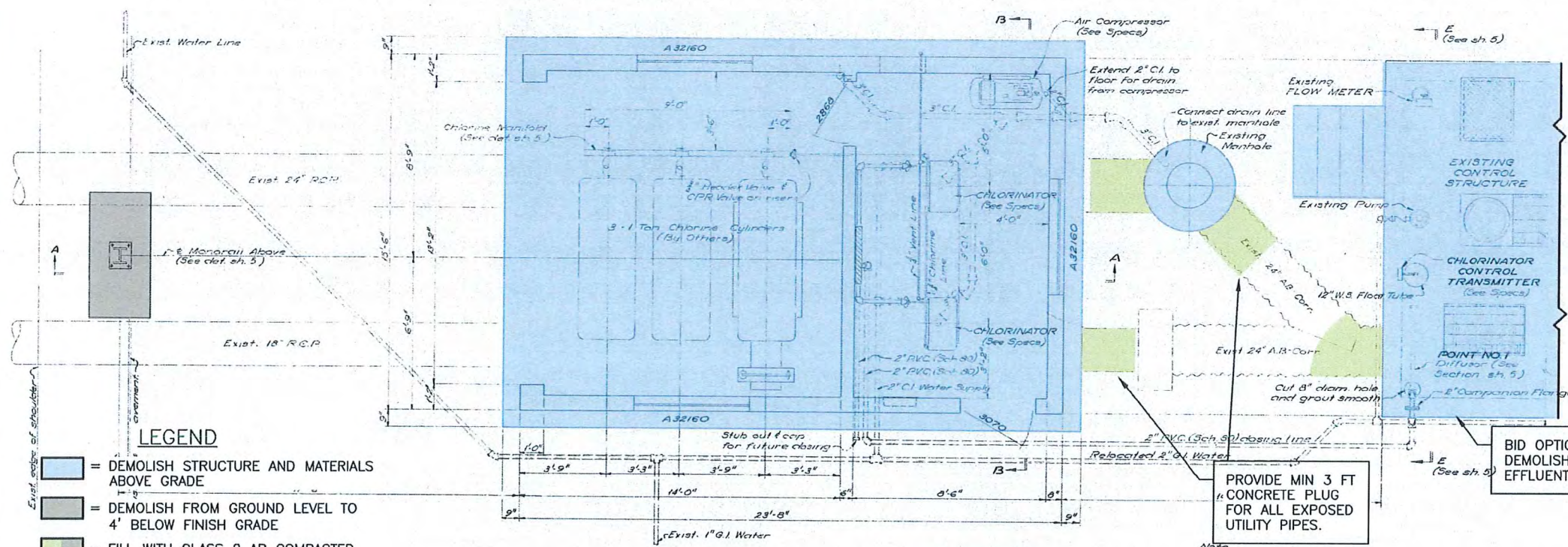
MISC. DETAILS REFERENCE

SHEET

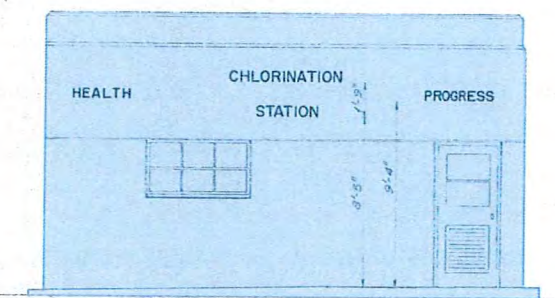
C9

11 OF 18

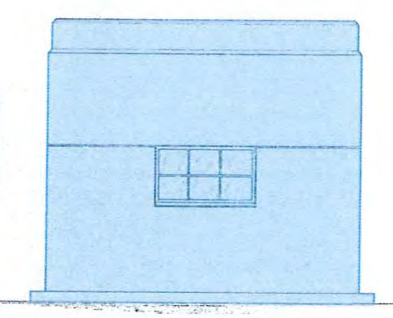




LETTERING  
 "Health" and "Progress" to be 5" incised letters.  
 "Chlorination Station" to be 6" incised letters.



NORTH ELEVATION  
 Scale 1/4" = 1'-0"



WEST ELEVATION  
 Scale 1/4" = 1'-0"

**DOOR NOTES**  
 2868 Door shall be industrial steel door with cylinder lock and approved metal threshold.  
 3070 Door shall be industrial steel door with cylinder lock, half glass, approved metal threshold, and approved weatherstripping all around door. Provide louvers in lower half of door.

**WINDOW NOTE**  
 Windows shall be Commercial Projected (Out-Projecting) windows Type A32160. (See Specs.)

**EQUIPMENT NOTE**  
 Specifications for equipment shall be as per equipment drawings for setting and anchor bolt verify dimensions and clearances before concrete.

CITY OF PETALUMA CALIFORNIA	
SEWAGE WORKS ADDITIONS	
CHLORINATION STATION PIPEWORK & EQUIPMENT PLAN, SECTIONS & ELEVATIONS	
HARRY N. JENKS & JOHN H. JENKS CONSULTING SANITARY ENGINEERS PALO ALTO, CALIFORNIA	
Drawn by: L. L. K.	Scale: 3/8" = 1'-0" EXCEPT AS SHOWN
Checked by: R. C. E.	Date: MAY 1958

CORPORATION YARD TANK DEMO - PHASE 2

CHLORINATION STATION PLAN AND ELEVATION

DATE: MARCH 2021  
 DESIGNED BY: J. MINSHALL  
 DRAWN BY: J. MINSHALL  
 CHECKED BY:

PROJECT NO.  
 E66502027



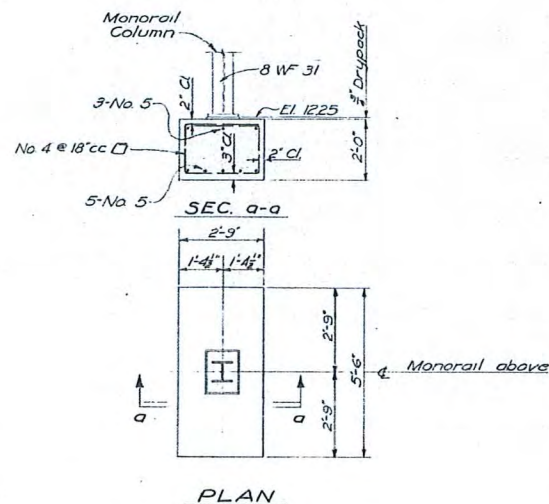
CITY OF PETALUMA  
 PUBLIC WORKS & UTILITIES  
 202 N. McDowell Blvd., PETALUMA, CALIFORNIA, 94954  
 PH. 707-778-4546 FAX. 707-778-4508

SHEET

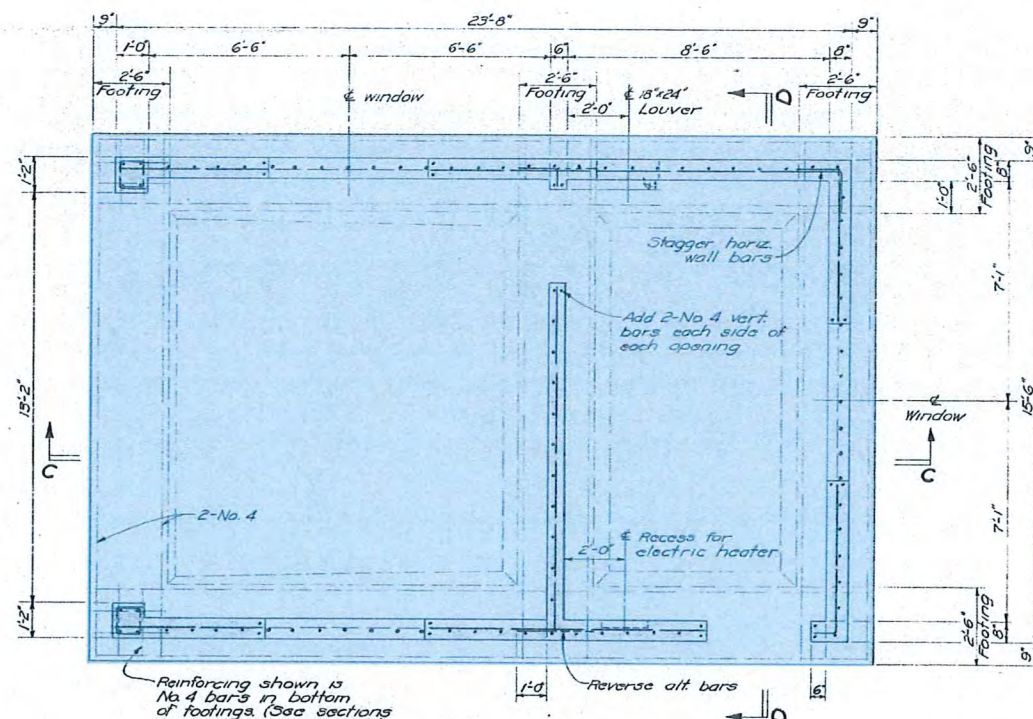
C10

12 OF 18

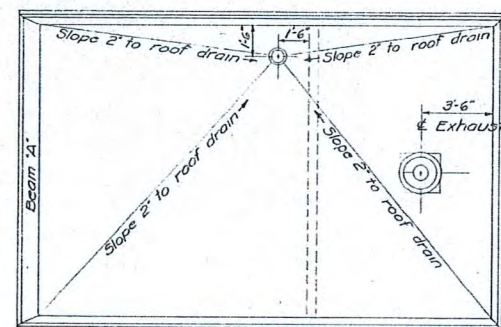




PLAN COLUMN FOOTING



PLAN

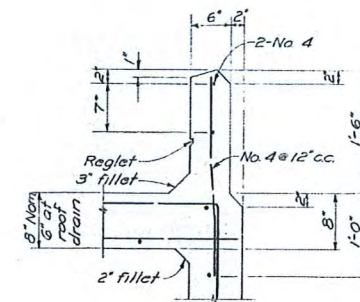


ROOF PLAN

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

ROOFING NOTE

Apply "20 year" built-up roofing consisting of 5 layers of 15# asphalt saturated felt, hot asphalt moppings and 500#/square of gravel, together with all necessary flashing, counter-flashing and sealing Flintkote AAA-1, or equal. The Contractor shall issue a written guarantee to the City of Petaluma to maintain the roof, flashing and counterflashing in a watertight condition for a period of two years.

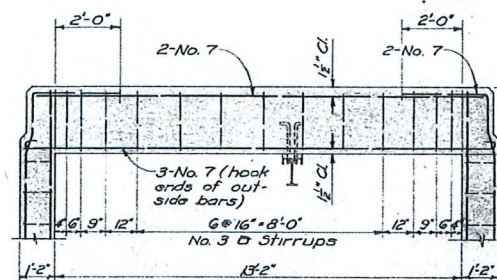


TYPICAL PARAPET

Scale: 1" = 1'-0"

CONCRETE NOTES

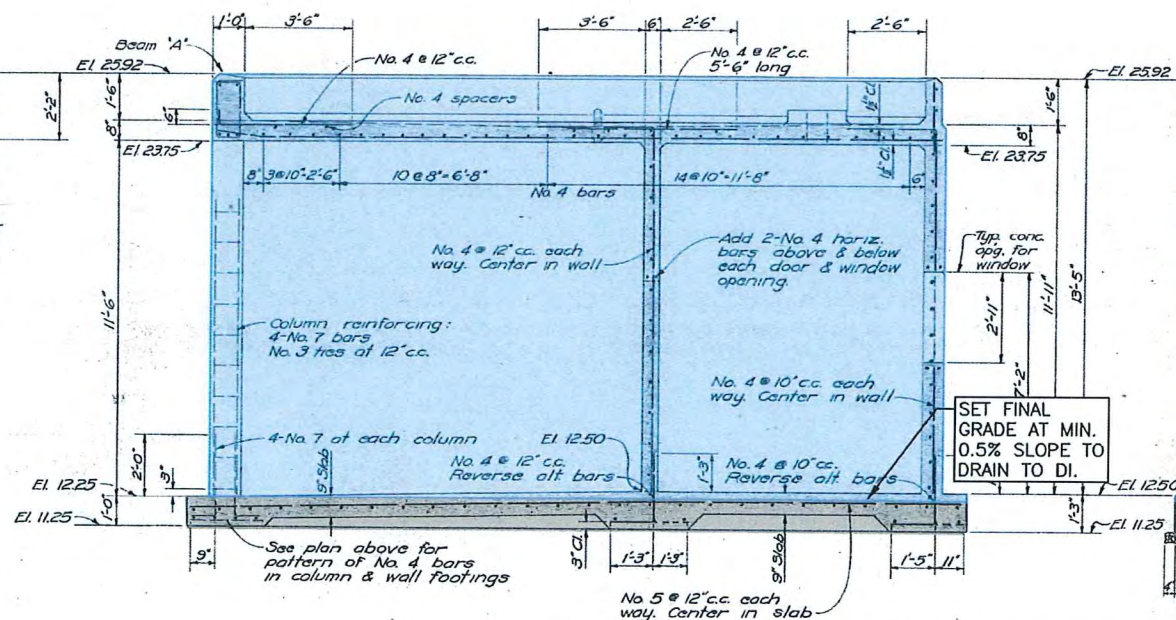
1. All concrete shall be Class "A", developing a compressive strength of not less than 3000 p.s.i. in 28 days.
2. Reinforcing steel shall be intermediate grade, deformed bars in accordance with ASTM Designation A-13, with deformations conforming to ASTM Designation A-305. All splices shall be lapped 24 diameters unless otherwise shown.
3. Concrete for walls between construction joints shall be placed in one continuous operation. No vertical construction joints will be permitted.
4. Care shall be taken to assure good water-tight concrete at construction joints. Concrete shall be well compacted at surface of joints, shall be cleaned with air-and-water jet and/or wire brush while green, and shall be kept wet just before new concrete is placed; the old surface shall be flushed with 1:2 Portland Cement Mortar.
5. Chamfer all exposed edges 3" unless otherwise shown.
6. Embed reinforcing bars (except where otherwise shown) as follows:  
3" clear from bottom of wall footings  
Center reinf. in 9" floor slab  
Center reinf. in 8" 6" walls  
1/2" clear from top & bottom of roof slab



BEAM 'A'

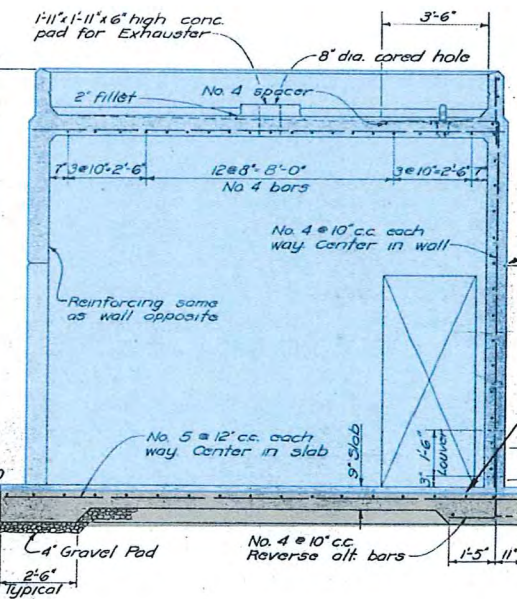
LEGEND

- DEMOLISH STRUCTURE AND MATERIALS ABOVE GRADE
- DEMOLISH FROM GROUND LEVEL TO 4' BELOW FINISH GRADE
- FILL WITH CLASS 2 AB COMPACTED TO 90% RELATIVE COMPACTION WHERE PRACTICAL. OTHERWISE FILL WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM). LEAVE NO VOIDS.



SECTION C-C

EXCAVATION BELOW DEMOLISHED SHALLOW SLABS ONLY TO REQUIRED DEPTH FOR RESURFACING AND UTILITY ABANDONMENT



SECTION D-D

CITY OF PETALUMA CALIFORNIA	
SEWAGE WORKS ADDITIONS	
CHLORINATION STATION STRUCTURAL PLANS & SECTIONS	
HARRY N. JENKS ..... JOHN H. JENKS CONSULTING SANITARY ENGINEERS PALO ALTO, CALIFORNIA	
Drawn by: R. M. W.	Scale: 3/8" = 1'-0" EXCEPT AS SHOWN
Checked by: P. L. A.	Date: MAY 1958

CORPORATION YARD TANK DEMO - PHASE 2

CHLORINATION STATION STRUCTURAL PLAN

SHEET

C11

13 OF 18

DATE: MARCH 2021

DESIGNED BY: J. MINSHALL

DRAWN BY: J. MINSHALL

CHECKED BY:

PROJECT NO.  
E66502027

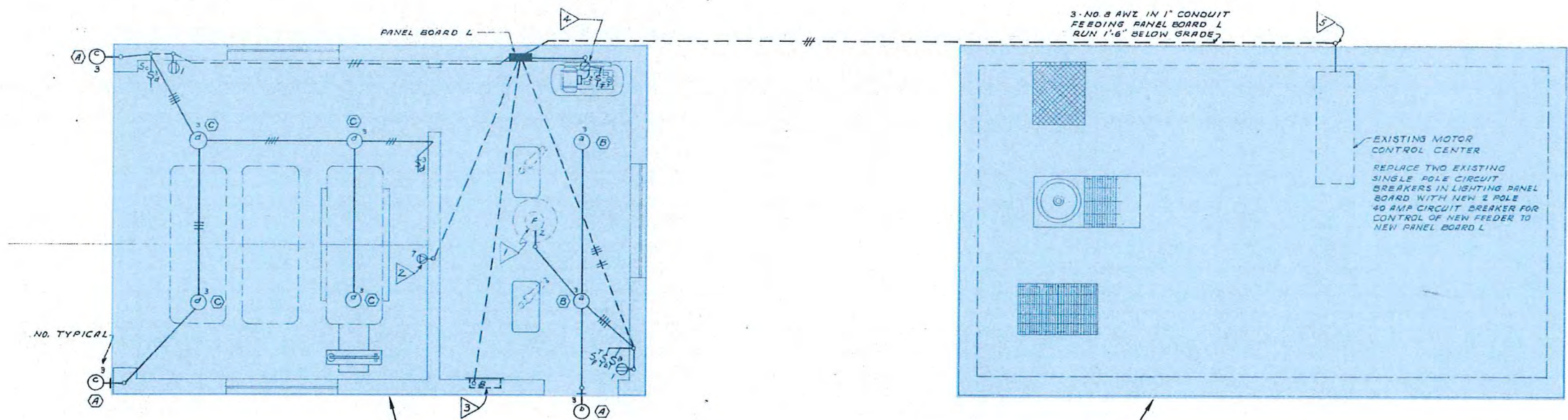


CITY OF PETALUMA  
PUBLIC WORKS & UTILITIES  
202 N. McDowell Blvd., PETALUMA, CALIFORNIA, 94954  
PH. 707-778-4546 FAX. 707-778-4508









ELECTRICAL PLAN  
SCALE: 3/8"=1'-0"

SCHEDULE OF LIGHTING FIXTURES

A	HOLOPHANE NO. 420 WITH 200 WATT CLEAR LAMP-WALL MOUNTED
B	SMOOT-HOLMAN LH-1112 WITH TWO 100A LAMPS-CEILING MOUNTED
C	SMOOT-HOLMAN 13B14 WITH 150A LAMP-CEILING MOUNTED

- ELECTRICAL NOTES
- EXHAUST FAN ON ROOF PROVIDE DISCONNECT AT MOTOR. PROVIDE MANUAL STARTER FOR CONTROL WHERE SHOWN (120 V)
  - OUTLET FOR ELECTRIC HOIST. PROVIDE MANUAL STARTER. CONNECT HOIST UNIT CABLE WITH GRIP-CORD BOX CONNECTOR (240 V)
  - ELECTRIC HEATER. INSTALL FLUSH IN WALL WHERE SHOWN. SEE SPECS (120 V)
  - COMPRESSOR. PROVIDE OUTLET W/ MANUAL STARTER. FLEX FROM OUTLET TO MOTOR AND CONNECT TO MOTOR AND PRESSURE CONTROL (120 V)
  - STUB UP OUTSIDE WALL. INSTALL LB CONDUIT. DRILL AND NIPPLE THRU WALL TO CONTROL CENTER. GROUT OPENING. WATERTIGHT

BID OPTION:  
DEMOLISH PLANT  
EFFLUENT CONTROL BOX  
  
DEMOLISH EXPANDED  
STRUCTURE AS  
INCLUDED IN BID  
OPTION - VERIFY IN  
FIELD

- ELECTRICAL LEGEND
- LIGHTING OUTLET WITH FIXTURE
  - LIGHTING FIXTURE-WALL MOUNTED
  - S SWITCH-SINGLE POLE
  - S<sup>3</sup> SWITCH-THREE WAY
  - S<sup>T</sup> MANUAL STARTER
  - (A) LIGHTING FIXTURE IDENTIFYING SYMBOL
  - CONDUIT RUN IN CEILING OR WALLS (EXPOSED WHERE REQ'D.)
  - CONDUIT RUN UNDERGROUND OR BELOW FLOOR SURFACE
  - △ NOTE REFERENCE
  - ⊞ DUPLEX RECEPTACLE

6  
OF  
6

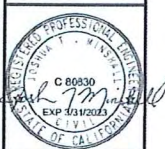
CITY OF PETALUMA CALIFORNIA	
SEWAGE WORKS ADDITIONS	
CHLORINATION STATION ELECTRICAL LAYOUT AND DETAILS	
HARRY N. JENKS ..... JOHN H. JENKS CONSULTING SANITARY ENGINEERS PALO ALTO, CALIFORNIA	
Drawn by: C.C.	Scale: AS SHOWN
Checked by: C.R.M.	Date: MAY 1958

Carl P. Martinson Jr.  
CARL P. MARTINEAU, JR., Electrical Engineer  
HECTOR H. AIKEN, Mechanical Engineer  
MENLO PARK, CALIFORNIA

CORPORATION YARD TANK DEMO - PHASE 2  
  
CHLORINATION STA. & EFFLUENT CTRL BOX ELEC.

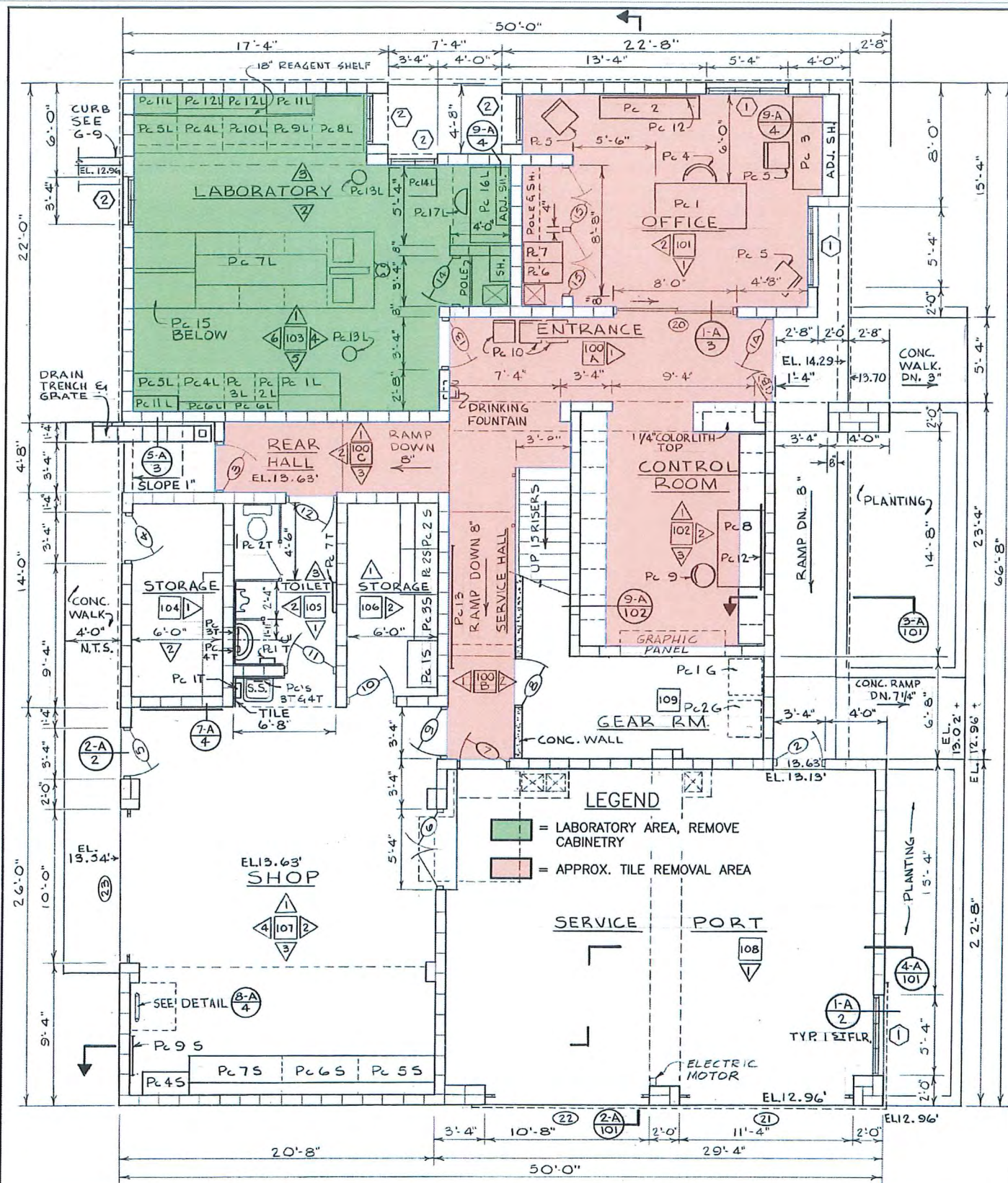
DATE: MARCH 2021  
DESIGNED BY: J. MINSHALL  
DRAWN BY: J. MINSHALL  
CHECKED BY:

PROJECT NO.  
E66502027



CITY OF PETALUMA  
PUBLIC WORKS & UTILITIES  
202 N. McDowell Blvd., PETALUMA, CALIFORNIA, 94954  
PH. 707-778-4546 FAX. 707-778-4508

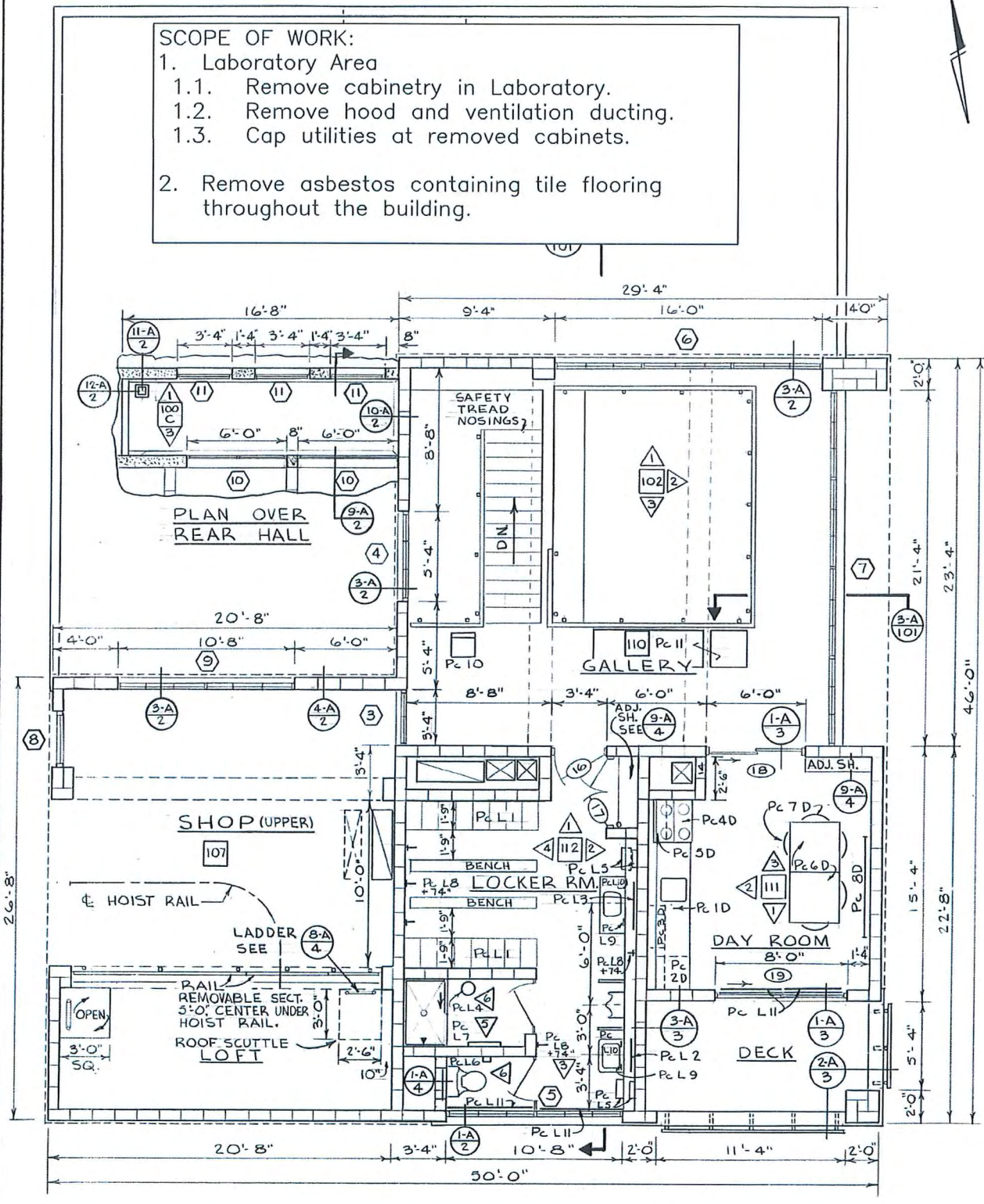




FIRST FLOOR PLAN

1/4" = 1'-0"

M. C. YODER ASSOCIATES CONSULTING ENGINEERS REDAWOOD, CALIFORNIA	DESIGNED BY J. H. S. H. RBO # 132 DRAWN R.E.H. CHECKED S.H.P. DATE MAY, 1966	JOB NO. 6401.2 CITY OF PETALUMA, SONOMA COUNTY, CALIFORNIA APPROVED BY J. H. S. H. R.P.E. CIVIL # 7023 APPROVED BY M. C. Yoder Associates
--	---	---



SECOND FLOOR PLAN

1/4" = 1'-0"

WATER POLLUTION CONTROL PLANT (1966)	CONTROL BUILDING FLOOR PLANS ARCHITECTURAL DRAWING SHEET 100 20 OF 98
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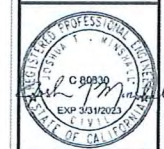
SCOPE OF WORK:  
1. Laboratory Area  
1.1. Remove cabinetry in Laboratory.  
1.2. Remove hood and ventilation ducting.  
1.3. Cap utilities at removed cabinets.  
2. Remove asbestos containing tile flooring throughout the building.

CORPORATION YARD TANK DEMO - PHASE 2

OPERATIONS BUILDING AND LAB FLOOR PLAN

DATE: MARCH 2021  
DESIGNED BY: J. MINSHALL  
DRAWN BY: J. MINSHALL  
CHECKED BY:

PROJECT NO.  
E66502027



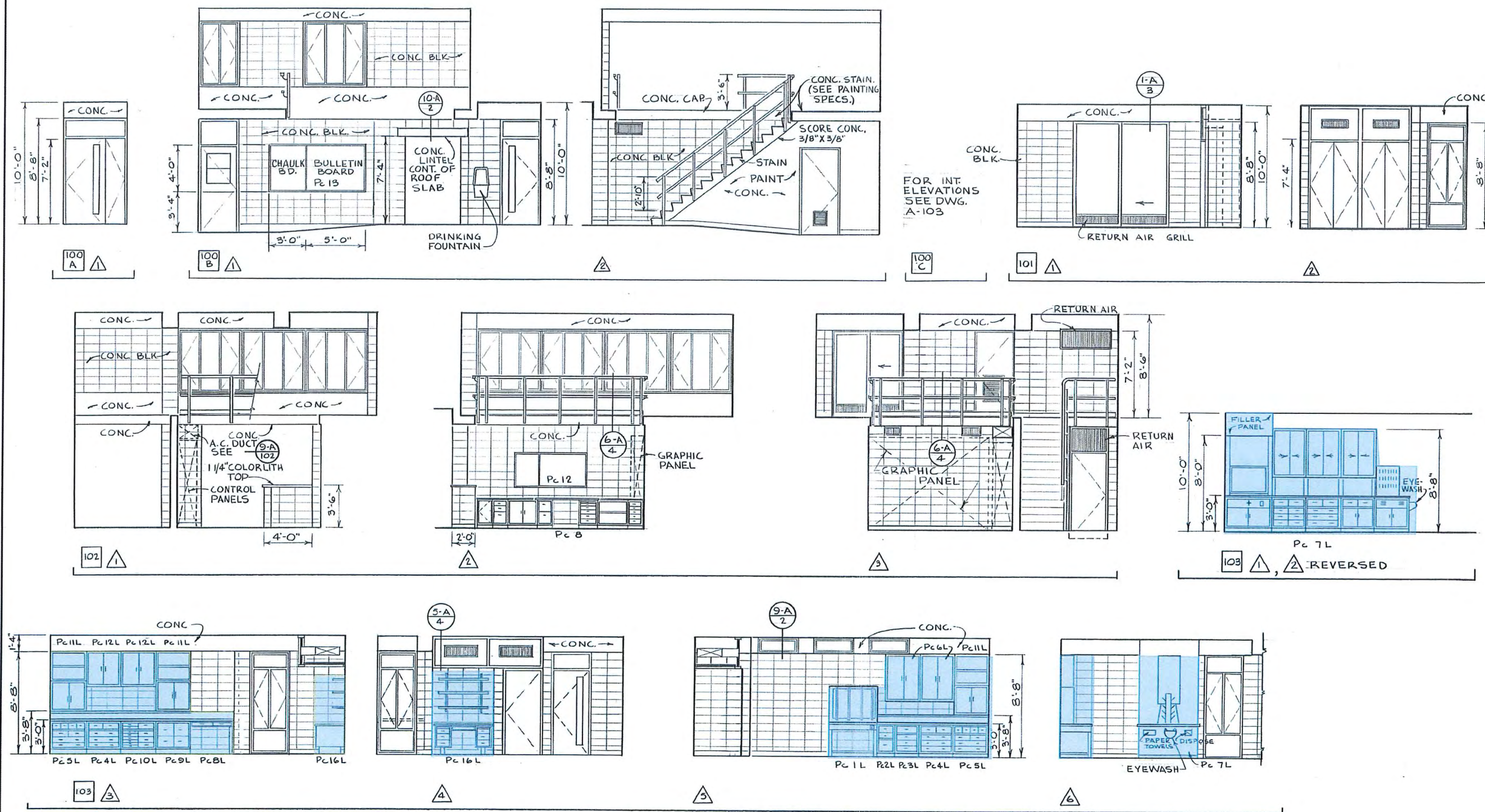
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PUBLIC WORKS & UTILITIES  
202 N. McDowell Blvd., PETALUMA, CALIFORNIA 94954  
PH. 707-778-4546 FAX. 707-778-4508

SHEET  
C14  
16 OF 18

AS BUILT - DEL - 4-1-68

2-26





# INTERIOR ELEVATIONS

M. C. YODER ASSOCIATES CONSULTING ENGINEERS BERKELEY, CALIFORNIA	DESIGNED <i>[Signature]</i> R.D.D. #132 DRAWN R.E.H. CHECKED <i>[Signature]</i>	JOB NO. 6401.2 DATE MAY, 1966	CITY OF PETALUMA, SONOMA COUNTY, CALIFORNIA APPROVED <i>[Signature]</i> E.P.E. OVI 8-7023	WATER POLLUTION CONTROL PLANT (1966)	CONTROL BUILDING INTERIOR ELEVATIONS	ARCHITECTURAL DRAWING SHEET 104 24 OF 98
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AS BUILT - DRL - 4-1-68

3-25

CORPORATION YARD TANK DEMO - PHASE 2

OPERATIONS BLDG & LAB INTERIOR ELEVATIONS

DATE: MARCH 2021

DESIGNED BY: J. MINSHALL

DRAWN BY: J. MINSHALL

CHECKED BY:

PROJECT NO.  
E66502027



CITY OF PETALUMA

PUBLIC WORKS & UTILITIES

202 N. McDowell Blvd., PETALUMA, CALIFORNIA, 94954

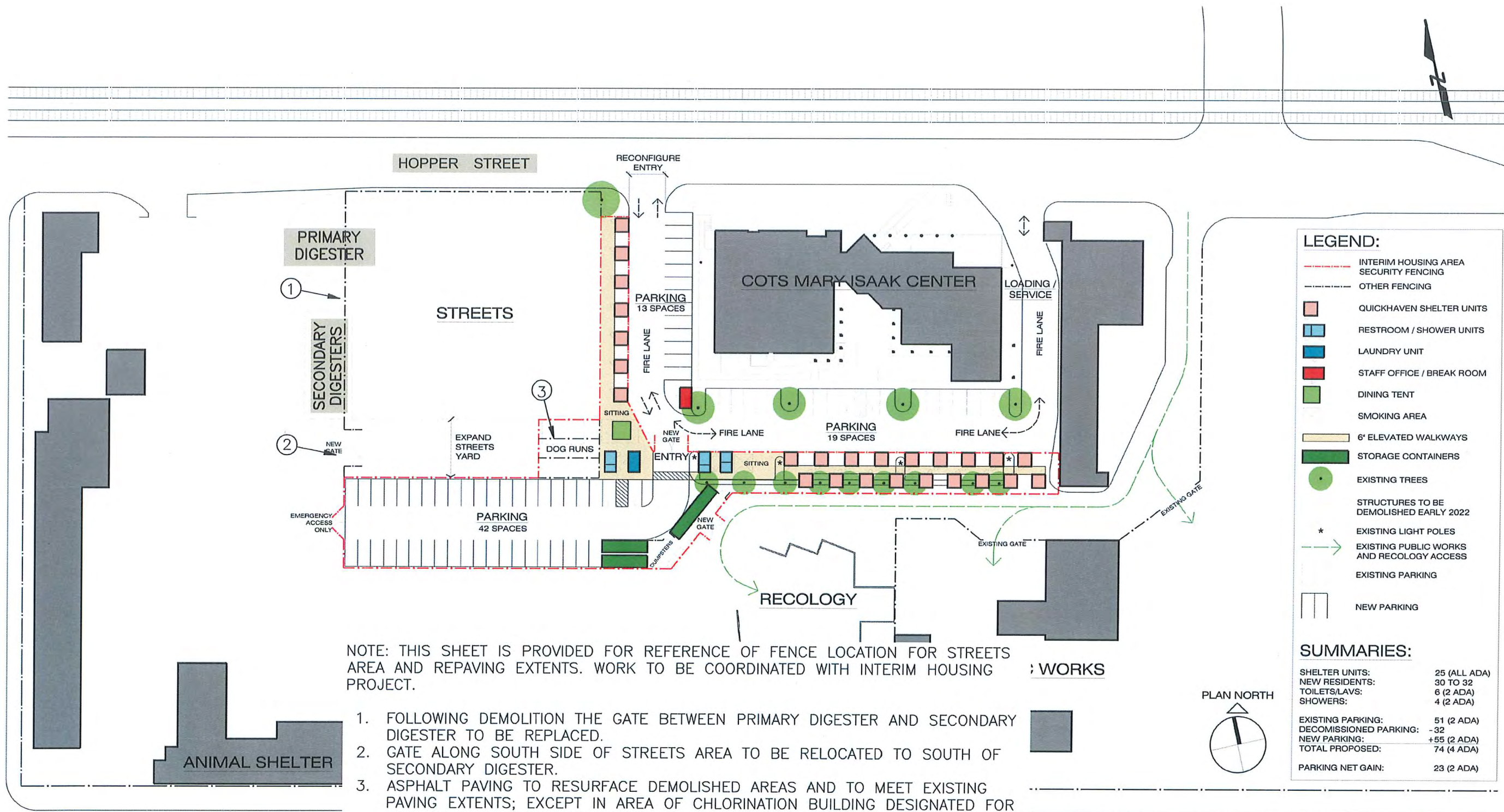
PH. 707-778-4546 FAX. 707-778-4508

SHEET

C15

17 OF 18





NOTE: THIS SHEET IS PROVIDED FOR REFERENCE OF FENCE LOCATION FOR STREETS AREA AND REPAVING EXTENTS. WORK TO BE COORDINATED WITH INTERIM HOUSING PROJECT.

1. FOLLOWING DEMOLITION THE GATE BETWEEN PRIMARY DIGESTER AND SECONDARY DIGESTER TO BE REPLACED.
2. GATE ALONG SOUTH SIDE OF STREETS AREA TO BE RELOCATED TO SOUTH OF SECONDARY DIGESTER.
3. ASPHALT PAVING TO RESURFACE DEMOLISHED AREAS AND TO MEET EXISTING PAVING EXTENTS; EXCEPT IN AREA OF CHLORINATION BUILDING DESIGNATED FOR DOG RUNS, WHERE SURFACING SHALL BE SOIL.

#### LEGEND:

- INTERIM HOUSING AREA SECURITY FENCING
- OTHER FENCING
- QUICKHAVEN SHELTER UNITS
- RESTROOM / SHOWER UNITS
- LAUNDRY UNIT
- STAFF OFFICE / BREAK ROOM
- DINING TENT
- SMOKING AREA
- 6' ELEVATED WALKWAYS
- STORAGE CONTAINERS
- EXISTING TREES
- STRUCTURES TO BE DEMOLISHED EARLY 2022
- EXISTING LIGHT POLES
- EXISTING PUBLIC WORKS AND RECOLOGY ACCESS
- EXISTING PARKING
- NEW PARKING

#### SUMMARIES:

SHELTER UNITS:	25 (ALL ADA)
NEW RESIDENTS:	30 TO 32
TOILETS/LAVS:	6 (2 ADA)
SHOWERS:	4 (2 ADA)
EXISTING PARKING:	51 (2 ADA)
DECOMMISSIONED PARKING:	-32
NEW PARKING:	+55 (2 ADA)
TOTAL PROPOSED:	74 (4 ADA)
PARKING NET GAIN:	23 (2 ADA)

PLAN NORTH



12 WESTERN AVENUE #2  
PETALUMA, CA 94952  
TEL 707.765.9222  
www.madarc.com

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## FEASIBILITY STUDY 6

NOT TO SCALE

## CITY OF PETALUMA INTERIM HOUSING SOLUTIONS PROJECT

900 HOPPER STREET, PETALUMA CA 94952

DRAWN BY: OTH  
CHECKED BY: MAD  
APN: 007-171-008  
007-171-016



6

AUGUST 27, 2021

CORP YARD PARTIAL PLAN  
WITH PRELIMINARY SURVEY UNDERLAY

DATE: MARCH 2021

DESIGNED BY:

DRAWN BY:

CHECKED BY:

PROJECT NO.  
E66502027

CITY OF PETALUMA  
PUBLIC WORKS & UTILITIES  
202 N. McDowell Blvd., PETALUMA, CALIFORNIA, 94954  
PH: 707-778-4546 FAX: 707-778-4508

CORPORATION YARD TANK DEMO - PHASE 2

REFERENCED INTERIM HOUSING PLAN

SHEET

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## DB Gaya Consulting LLC

Sebastopol & Fairfield  
California  
707-280-2240

### Daily Inspection Report

Customer

City of Petaluma

Project

Paint Samples for Demolition of Existing Structures.

Date

05/14/2020

Job Number

Location



Contractor

N/A

Crew size

N/A

Foreman

N/A

Inspector

Dana Gaya NACE 9246

Today's Inspection



This morning, paint samples were obtained from exteriors of the Primary and Secondary Digester. Chlorine Building is to be tested for heavy metals with the CAM 17 test, & 6" core sample are being to be cut to obtain the coating system from the interiors of Digesters. Floor and ceiling tile samples were taken to check for asbestos in the Lab building.

Two 6" concrete cores were cut in the lower wall and upper wall of the Primary Digester to check for an existing liner on the concrete. The interiors of core samples showed no signs of existing coatings or lining.

Project Job Site



[Click here to insert from Photo Library](#)

## Inspection Performed

Time				
Notes				

## Surface Assessment Prior to Cleaning

☐ Select to complete surface assessment

## Climate Conditions

☐ Select to complete Climate info

## Surface Preparation System



Compressor rating

Cleanliness and dryness of compressed air

Blast pot size, configuration, or recycling equipment

☐ Select to enter Blast info

Notes

### Dehumidification and Ventilation Equipment

☐ Select to enter equipment info

☐ Add photos

Notes

☐ Select to complete Material page

### Coating Material Information

Base



Click here to insert from Photo Library

Activator





Click here to insert from Photo Library

Notes

### Material Application System

Photo of application equipment



Click here to insert from Photo Library

Notes

### Paint Inspection Photo Documentation

Dennisgaya@comcast.net



Showing the Primary Digester with existing coatings.





Secondary digester with existing coatings.



Showing the chlorine building.



Sample floor and roof tile to be tested for asbestos





Paint samples removed from the exterior of the digester.



6" concrete core sample for checking interior liner.



Showing no evidence of a liner inside the primary digester.





Concrete core with no evidence of interior liner.



Showing ceiling of the Primary Digester



Showing the interior walls of the Primary Digester





Interior of the Primary Digester.

**Signature**

X Dana Lynn

---

Inspector

Dana Gaya NACE #9246

Email Address

Dgaya73@gmail.com



# Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)  
NVLAP Lab Code: 101459-0

DB Gaya Consulting LLC  
Dana Gaya  
2926 Thorn Rd.  
  
Sebastopol, CA 96472

**Client ID:** L1927  
**Report Number:** B303990  
**Date Received:** 05/20/20  
**Date Analyzed:** 05/27/20  
**Date Printed:** 05/28/20  
**First Reported:** 05/28/20

**Job ID/Site:** Petaluma Corp Yard, Petaluma, CA

**SGSFL Job ID:** L1927  
**Total Samples Submitted:** 2  
**Total Samples Analyzed:** 2

**Date(s) Collected:**

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
<b>Lab Floor Tile</b>		12307331					
Layer: White Tile		Chrysotile	2 %				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		<b>Asbestos (2%)</b>					
Cellulose (Trace)							
<b>Lab Ceiling Tile</b>		12307332					
Layer: Off-White Semi-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		<b>Asbestos (ND)</b>					
Cellulose (50 %)							



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by SGS Forensic Laboratories (SGSFL) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by SGSFL to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by SGSFL. The client is solely responsible for the use and interpretation of test results and reports requested from SGSFL. SGSFL is not able to assess the degree of hazard resulting from materials analyzed. SGS Forensic Laboratories reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



06/01/20

## Technical Report for

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SGS Forensic Laboratories-Hayward, CA

DB Gaya Consulting LLC; Petaluma Corp Yard, Petaluma, CA

L1927

SGS Job Number: FA75190

Sampling Date: 05/15/20

---

### Report to:

SGS Forensic Laboratories  
3777 Depot Rd Suite 409  
Hayward, CA 94545  
env.hayward.subcontract@sgs.com

ATTN: Claudia Moreno

Total number of pages in report:

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Caitlin Brice, M.S.  
General Manager

Client Service contact: Elvin Kumar 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001)  
DoD ELAP(ANAB L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177),  
AK, AR, IA, KY, MA, MS, ND, NH, NV, OK, OR, UT, WA, WV

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Test results relate only to samples analyzed.



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## Sample Summary

SGS Forensic Laboratories-Hayward, CA

Job No: FA75190

DB Gaya Consulting LLC; Petaluma Corp Yard, Petaluma, CA  
Project No: L1927

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
FA75190-1	05/15/20	00:00 DG	05/22/20	SO	Solid	CHLORINE BUILDING
FA75190-2	05/15/20	00:00 DG	05/22/20	SO	Solid	PRIMARY DIGESTOR
FA75190-3	05/15/20	00:00 DG	05/22/20	SO	Solid	SECONDARY DIGESTOR

---

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



## Summary of Hits

Page 1 of 1

**Job Number:** FA75190

**Account:** SGS Forensic Laboratories-Hayward, CA

**Project:** DB Gaya Consulting LLC; Petaluma Corp Yard, Petaluma, CA

**Collected:** 05/15/20

2

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
<b>FA75190-1 CHLORINE BUILDING</b>						
Barium		3290	92		mg/kg	SW846 6010C
Cadmium <sup>a</sup>		16.5	0.92		mg/kg	SW846 6010C
Chromium <sup>a</sup>		33.5	2.3		mg/kg	SW846 6010C
Copper <sup>a</sup>		9.0	5.7		mg/kg	SW846 6010C
Lead <sup>a</sup>		158	4.6		mg/kg	SW846 6010C
Zinc <sup>a</sup>		546	4.6		mg/kg	SW846 6010C
<b>FA75190-2 PRIMARY DIGESTOR</b>						
Barium <sup>a</sup>		112	50		mg/kg	SW846 6010C
Cadmium <sup>a</sup>		11.8	0.99		mg/kg	SW846 6010C
Chromium <sup>a</sup>		24.0	2.5		mg/kg	SW846 6010C
Copper <sup>a</sup>		8.1	6.2		mg/kg	SW846 6010C
Lead <sup>a</sup>		23.1	5.0		mg/kg	SW846 6010C
Nickel <sup>a</sup>		10.4	9.9		mg/kg	SW846 6010C
Vanadium <sup>a</sup>		14.5	12		mg/kg	SW846 6010C
Zinc <sup>a</sup>		187	5.0		mg/kg	SW846 6010C
<b>FA75190-3 SECONDARY DIGESTOR</b>						
Barium		3100	160		mg/kg	SW846 6010C
Cadmium <sup>a</sup>		1.9	0.82		mg/kg	SW846 6010C
Chromium <sup>a</sup>		64.4	2.0		mg/kg	SW846 6010C
Cobalt <sup>a</sup>		17.3	10		mg/kg	SW846 6010C
Copper <sup>a</sup>		21.2	5.1		mg/kg	SW846 6010C
Lead <sup>a</sup>		1290	4.1		mg/kg	SW846 6010C
Zinc <sup>a</sup>		1480	4.1		mg/kg	SW846 6010C

(a) Sample dilution required due to difficult matrix.



Sample Results

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Report of Analysis

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## Report of Analysis

Client Sample ID: CHLORINE BUILDING

Lab Sample ID: FA75190-1

Matrix: SO - Solid

Date Sampled: 05/15/20

Date Received: 05/22/20

Percent Solids: n/a<sup>a</sup>

Project: DB Gaya Consulting LLC; Petaluma Corp Yard, Petaluma, CA

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony <sup>b</sup>	< 4.6	4.6	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic <sup>b</sup>	< 2.3	2.3	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	3290	92	mg/kg	10	05/23/20	05/27/20 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Beryllium <sup>b</sup>	< 1.1	1.1	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium <sup>b</sup>	16.5	0.92	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium <sup>b</sup>	33.5	2.3	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt <sup>b</sup>	< 11	11	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper <sup>b</sup>	9.0	5.7	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead <sup>b</sup>	158	4.6	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Molybdenum <sup>b</sup>	< 11	11	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Nickel <sup>b</sup>	< 9.2	9.2	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium <sup>b</sup>	< 4.6	4.6	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver <sup>b</sup>	< 2.3	2.3	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium <sup>c</sup>	< 4.6	4.6	mg/kg	10	05/23/20	05/27/20 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Vanadium <sup>b</sup>	< 11	11	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc <sup>b</sup>	546	4.6	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA16775

(2) Instrument QC Batch: MA16778

(3) Prep QC Batch: MP37267

(a) All results reported on a wet weight basis.

(b) Sample dilution required due to difficult matrix.

(c) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit



## Report of Analysis

<b>Client Sample ID:</b>	PRIMARY DIGESTOR	<b>Date Sampled:</b>	05/15/20
<b>Lab Sample ID:</b>	FA75190-2	<b>Date Received:</b>	05/22/20
<b>Matrix:</b>	SO - Solid	<b>Percent Solids:</b>	n/a <sup>a</sup>
<b>Project:</b>	DB Gaya Consulting LLC; Petaluma Corp Yard, Petaluma, CA		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony <sup>b</sup>	< 5.0	5.0	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Arsenic <sup>b</sup>	< 2.5	2.5	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Barium <sup>b</sup>	112	50	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Beryllium <sup>b</sup>	< 1.2	1.2	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Cadmium <sup>b</sup>	11.8	0.99	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Chromium <sup>b</sup>	24.0	2.5	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Cobalt <sup>b</sup>	< 12	12	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Copper <sup>b</sup>	8.1	6.2	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Lead <sup>b</sup>	23.1	5.0	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Molybdenum <sup>b</sup>	< 12	12	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Nickel <sup>b</sup>	10.4	9.9	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Selenium <sup>b</sup>	< 5.0	5.0	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Silver <sup>b</sup>	< 2.5	2.5	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Thallium <sup>b</sup>	< 2.5	2.5	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Vanadium <sup>b</sup>	14.5	12	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>
Zinc <sup>b</sup>	187	5.0	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>2</sup>

(1) Instrument QC Batch: MA16775

(2) Prep QC Batch: MP37267

(a) All results reported on a wet weight basis.

(b) Sample dilution required due to difficult matrix.

RL = Reporting Limit



## Report of Analysis

Client Sample ID: SECONDARY DIGESTOR

Lab Sample ID: FA75190-3

Matrix: SO - Solid

Date Sampled: 05/15/20

Date Received: 05/22/20

Percent Solids: n/a <sup>a</sup>

Project: DB Gaya Consulting LLC; Petaluma Corp Yard, Petaluma, CA

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony <sup>b</sup>	< 4.1	4.1	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Arsenic <sup>b</sup>	< 2.0	2.0	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Barium	3100	160	mg/kg	20	05/23/20	05/27/20 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Beryllium <sup>b</sup>	< 1.0	1.0	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cadmium <sup>b</sup>	1.9	0.82	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Chromium <sup>b</sup>	64.4	2.0	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Cobalt <sup>b</sup>	17.3	10	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Copper <sup>b</sup>	21.2	5.1	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Lead <sup>b</sup>	1290	4.1	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Molybdenum <sup>b</sup>	< 10	10	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Nickel <sup>b</sup>	< 8.2	8.2	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Selenium <sup>b</sup>	< 4.1	4.1	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Silver <sup>b</sup>	< 2.0	2.0	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Thallium <sup>c</sup>	< 8.2	8.2	mg/kg	20	05/23/20	05/27/20 LM	SW846 6010C <sup>2</sup>	SW846 3050B <sup>3</sup>
Vanadium <sup>b</sup>	< 10	10	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>
Zinc <sup>b</sup>	1480	4.1	mg/kg	5	05/23/20	05/26/20 LM	SW846 6010C <sup>1</sup>	SW846 3050B <sup>3</sup>

(1) Instrument QC Batch: MA16775

(2) Instrument QC Batch: MA16778

(3) Prep QC Batch: MP37267

(a) All results reported on a wet weight basis.

(b) Sample dilution required due to difficult matrix.

(c) Elevated reporting limit(s) due to matrix interference.

RL = Reporting Limit



## Misc. Forms

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## Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody



Client Name & Address: GAYA Consulting 2926 THORN Rd. Sebastopol CA, 95472		Client No.: 707-208-0121	PO / Job#: Date: 5-15-20
Contact: DAN A GAYA		Phone: 707-208-0121	Turn Around Time: Same Day / 1 Day / 2 Day / 3 Day / 4 Day / 5 Day
E-mail: DGAYA73@GMAIL.COM		Site Name: Petaluma Corp Yard.	<input type="checkbox"/> PCM: <input type="checkbox"/> NIOSH 7400A / <input type="checkbox"/> NIOSH 7400B <input type="checkbox"/> Rotometer <input type="checkbox"/> PLM: <input type="checkbox"/> Standard / <input type="checkbox"/> Point Count 400 / 1000 / <input type="checkbox"/> CARB 435
Site Location: Petaluma CA.		<input type="checkbox"/> TEM Air: <input type="checkbox"/> AHERA / <input type="checkbox"/> Yomale2 / <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> TEM Bulk: <input type="checkbox"/> Quantitative / <input type="checkbox"/> Qualitative / <input type="checkbox"/> Chatfield <input type="checkbox"/> TEM Water: <input type="checkbox"/> Potable / <input type="checkbox"/> Non-Potable / <input type="checkbox"/> Weight % <input type="checkbox"/> TEM Microvac: <input type="checkbox"/> Qual / <input type="checkbox"/> D5755(str/area) / <input type="checkbox"/> D5756(str/mass)	<input type="checkbox"/> IAQ Particle Identification (PLM LAB) <input type="checkbox"/> PLM Opaques/Soot <input type="checkbox"/> Particle Identification (TEM LAB) <input type="checkbox"/> Special Project
Comments: CAM 17 TEST FOR PAINT layers.		<input checked="" type="checkbox"/> Metals Analysis Matrix: PAINT Method: Analytes: CAM 17	
		<input type="checkbox"/> Silica in Air <input type="checkbox"/> w/Gravimetry <input type="checkbox"/> Quartz Only	

Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg LPM	Total Time	
1 Chlorine Building		EXTERIOR	A P C				
2 Primary Digestor		EXTERIOR	A P C				
3 Secondary Digestor		EXTERIOR	A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				

Sampled By:	Date/Time:	Shipped Via: <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input checked="" type="checkbox"/> US Mail <input type="checkbox"/> Courier <input type="checkbox"/> Drop Off <input type="checkbox"/> Other:
Relinquished By: [Signature]	Date/Time: 5/21/20	Relinquished By: [Signature]
Date/Time: 5/15/20	Date/Time: 5/21/20 @ 2:30pm	Date/Time: 5/22/20
Received By: [Signature]	Date/Time: 5/21/20	Received By: [Signature]
Date/Time: 5/21/20	Date/Time: 5/21/20	Date/Time: 5/22/20
Condition Acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

FA75190: Chain of Custody  
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SGS Forensic Laboratories may subcontract client samples to other SGSFL locations to meet client requests.  
 San Francisco Office: 3072 Depot Road, Suite 409, Hayward, CA 94545-2761 • Phone: 510/887-8828 • 800/827-3274  
 Los Angeles Office: 20535 South Belshaw Ave., Carson, CA 90746 • Phone: 310/763-2374 • 888/813-9417  
 Las Vegas Office: 6765 S. Eastern Avenue, Suite 3, Las Vegas, NV 89119 • Phone: 702/784-0040

N/A





**FORENSIC  
LABORATORIES**

## Subcontract Sample Release Form & Receipt

**Sending To:** SGS Orlando  
Attn: Elvin Kumar  
4405 Vineland Road

Orlando, FL 32811

**Phone:** 407-425-6700  
**Fax:**  
**Email:** elvin.kumar@sgs.com

**Date:** 05/21/2020

**From:** DB Gaya Consulting LLC  
**Parent RN:**

SGS Forensic Laboratories on this day releases custody and control of the following sample(s) presently in our custody:

FALI Job	FALI RN	Analysis Requested	Due Date
L1927	U000573	PLEASE ANALYSIS FOR CAM 17 BY ICP METHOD	5 Day

**Special Handling:** Send results and invoice only to ENV.Hayward.SUBCONTRACT@sgs.com

### SUBMISSION LOCATION (Please circle)

\* SGS Forensic Laboratories  
3777 Depot Road, Suite 409  
Hayward, CA 94545\*

SGS Forensic Laboratories  
20535 S. Belshaw Avenue  
Carson, CA 90746

SGS Forensic Laboratories  
6765 S. Eastern Avenue, Suite 3  
Las Vegas, NV 89119

**Released By:**

  
(SGS Forensic Laboratories)

S. HALLISTER

(Print Name)

5/24/20 @ 2:30pm

(Date / Time)

**Received By:**

(Client / Vendor Representative)

(Print Name)

(Date / Time)

Printed: 05/21/20 14:28

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**FA75190: Chain of Custody**  
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# DO NOT MAIL HARDCOPY REPORT & INVOICE.

## Subcontract Sample Receipt and Tracking

DB Gaya Consulting LLC  
Dan Gaya  
2926 Thorn Rd.

Sebastopol, CA 96472 USA

FALI Job No: L1927  
Job ID/Site: Petaluma Corp Yard, Petaluma, CA

Received Via: UPS  
Sample Container: Ziplock Plastic Bag

Analysis Type: SUB Metal Analysis

Client ID: L1927  
Client Phone: 707/280-2240  
Client FAX:  
Log-in Date: 05/21/20 02:25 PM  
Custody Date: 05/20/20 10:40

Report: U000573  
Due: 05/28/20 07:00 PM  
Priority: 5 Day  
Due Exact: No



Special Handling: Paperless - EMAIL lab docs to dennisgaya@comcast.net & whomever is listed on COC.

### Banner Notes:

Sample ID	Lab Number
Chlorine Building	90009948
Primary Digester	90009949
Secondary Digester	90009950

FA75190: Chain of Custody

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Checks: PASS - No further action required

Special Data Entry NA

Logged in by:

Simone Hollister

Printed: 05/21/20 14:26

Analyzed: \_\_\_\_\_ Reviewed: \_\_\_\_\_ Faxed: \_\_\_\_\_ E-mailed: \_\_\_\_\_ Mailed: \_\_\_\_\_ Invoiced: \_\_\_\_\_

1 of 1



**Due 07:00 PM 05/28/20 Time Approx**

**Priority 5 Day**

**Received 05/20/20 10:40**

**Subcontract**

**U000573**

**SUB Metal Analysis**

**Client L1927**

**DB Gaya Consulting LLC**

**3 Sample(s)**

**90009948-90009950**

**FA75190: Chain of Custody**

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## SGS Sample Receipt Summary

Job Number: FA75190

Client: SGS Forensic Laboratories

Project: DB Gaya Consulting - Petaluma Corp Yard

Date / Time Received: 5/22/2020 9:00:00 AM

Delivery Method: FedEx

Airbill #s: 815804047559

Therm ID: N/A

Therm CF: N/A

# of Coolers: N/A

Cooler Temps (Raw Measured) °C: N/A

Cooler Temps (Corrected) °C: N/A

### Cooler Information

Y or N

- |                             |                                     |                          |
|-----------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Temp criteria achieved   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Cooler temp verification | N/A                                 |                          |
| 5. Cooler media             | N/A                                 |                          |

### Trip Blank Information

Y or N N/A

- |                                |                          |                          |                                     |
|--------------------------------|--------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC    | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                                | W or S                   | N/A                      |                                     |
| 3. Type Of TB Received         | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

### Sample Information

Y or N N/A

- |   |                                     |                                     |                                     |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Sample labels present on bottles                 | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 2. Samples preserved properly                       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 3. Sufficient volume/containers recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 4. Condition of sample                              | Intact                              |                                     |                                     |
| 5. Sample recvd within HT                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 6. Dates/Times/IDs on COC match Sample Label        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     |
| 7. VOCs have headspace                              | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8. Bottles received for unspecified tests           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     |
| 9. Compositing instructions clear                   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10. Voa Soil Kits/Jars received past 48hrs?         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11. % Solids Jar received?                          | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12. Residual Chlorine Present?                      | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

### Misc. Information

Number of Encores: 25-Gram \_\_\_\_\_ 5-Gram \_\_\_\_\_  
 Test Strip Lot #s: pH 0-3 230315  
 Residual Chlorine Test Strip Lot #: \_\_\_\_\_

Number of 5035 Field Kits: \_\_\_\_\_  
 pH 10-12 219813A

Number of Lab Filtered Metals: \_\_\_\_\_  
 Other: (Specify) \_\_\_\_\_

Comments Samples for Metals Analysis received at Ambient Temperature

SM001  
Rev. Date 05/24/17

Technician: SHAYLAP

Date: 5/22/2020 9:00:00 AM

Reviewer: PH

Date: 5/25/2020

FA75190: Chain of Custody

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## Metals Analysis

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## QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries



BLANK RESULTS SUMMARY  
Part 2 - Method Blanks

Login Number: FA75190  
Account: SGSFLCAH - SGS Forensic Laboratories-Hayward, CA  
Project: DB Gaya Consulting LLC; Petaluma Corp Yard, Petaluma, CA

QC Batch ID: MP37267  
Matrix Type: SOLID

Methods: SW846 6010C  
Units: mg/kg

Prep Date: 05/23/20

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.7	1.8		
Antimony	1.0	.05	.065	0.14	<1.0
Arsenic	0.50	.065	.1	-0.11	<0.50
Barium	10	.05	.05	-0.015	<10
Beryllium	0.25	.01	.025	0.0	<0.25
Cadmium	0.20	.01	.025	-0.0050	<0.20
Calcium	250	2.5	2.5		
Chromium	0.50	.05	.05	0.040	<0.50
Cobalt	2.5	.01	.025	-0.010	<2.5
Copper	1.3	.05	.05	-0.015	<1.3
Iron	15	.85	.85		
Lead	1.0	.05	.05	-0.030	<1.0
Magnesium	250	1.8	1.8		
Manganese	0.75	.025	.025		
Molybdenum	2.5	.015	.025	0.015	<2.5
Nickel	2.0	.02	.025	-0.020	<2.0
Potassium	500	10	10		
Selenium	1.0	.12	.12	0.18	<1.0
Silver	0.50	.035	.041	0.010	<0.50
Sodium	500	25	25		
Strontium	0.50	.025	.025		
Thallium	0.50	.055	.055	-0.23	<0.50
Tin	2.5	.045	.045		
Titanium	0.50	.025	.025		
Vanadium	2.5	.025	.025	-0.010	<2.5
Zinc	1.0	.15	.15	0.12	<1.0

Associated samples MP37267: FA75190-1, FA75190-2, FA75190-3

Results < IDL are shown as zero for calculation purposes  
(\*) Outside of QC limits  
(anr) Analyte not requested



MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA75190  
Account: SGSFLCAH - SGS Forensic Laboratories-Hayward, CA  
Project: DB Gaya Consulting LLC; Petaluma Corp Yard, Petaluma, CA

QC Batch ID: MP37267  
Matrix Type: SOLID

Methods: SW846 6010C  
Units: mg/kg

Prep Date: 05/23/20 05/23/20

Metal	FA75163-5 Original DUP	RPD	QC Limits	FA75163-5 Original MS	SpikeLot MPFLICP2 % Rec	QC Limits
Aluminum						
Antimony	1.3	1.1 (a) 16.7	0-20	1.3	16.3 (a) 20	74.9N(c) 80-120
Arsenic	1.7	1.9 (a) 11.1	0-20	1.7	83.0 (a) 80.2	101.4 80-120
Barium	5.0	5.2 (a) 3.9	0-20	5.0	85.2 (a) 80.2	100.1 80-120
Beryllium	0.0	0.0 (a) NC	0-20	0.0	2.0 (a) 2	99.8 80-120
Cadmium	0.12	0.11 (a) 8.7	0-20	0.12	2.1 (a) 2	98.8 80-120
Calcium						
Chromium	7.9	8.0 (a) 1.3	0-20	7.9	15.9 (a) 8.02	99.8 80-120
Cobalt	0.14	0.16 (a) 13.3	0-20	0.14	19.9 (a) 20	98.6 80-120
Copper	2.3	2.2 (a) 4.4	0-20	2.3	12.6 (a) 10	102.8 80-120
Iron						
Lead	8.2	7.0 (a) 15.8	0-20	8.2	26.9 (a) 20	93.3 80-120
Magnesium						
Manganese						
Molybdenum	0.0	0.0 (a) NC	0-20	0.0	18.3 (a) 20	91.3 80-120
Nickel	1.1	1.3 (a) 16.7	0-20	1.1	21.6 (a) 20	102.3 80-120
Potassium						
Selenium	0.0	0.0 (a) NC	0-20	0.0	80.6 (a) 80.2	100.6 80-120
Silver	0.0	0.0 (a) NC	0-20	0.0	2.0 (a) 2	99.8 80-120
Sodium						
Strontium						
Thallium	0.30	0.51 (a) 51.9 (b)	0-20	0.30	79.1 (a) 80.2	98.3 80-120
Tin						
Titanium						
Vanadium	2.1	2.1 (a) 0.0	0-20	2.1	22.3 (a) 20	100.8 80-120
Zinc	11.1	11.6 (a) 4.4	0-20	11.1	30.7 (a) 20	97.8 80-120

Associated samples MP37267: FA75190-1, FA75190-2, FA75190-3

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Sample dilution required due to difficult matrix.

(b) RPD acceptable due to low duplicate and sample concentrations.

(c) Spike recovery indicates possible matrix interference and/or sample non-homogeneity.



MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA75190  
 Account: SGSFLCAH - SGS Forensic Laboratories-Hayward, CA  
 Project: DB Gaya Consulting LLC; Petaluma Corp Yard, Petaluma, CA

QC Batch ID: MP37267  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: mg/kg

Prep Date: 05/23/20

Metal	FA75163-5 Original MSD	Spikelot MPFLICP2 % Rec	MSD RPD	QC Limit	
Aluminum					
Antimony	1.3	19.3 (a) 22	81.9	16.9	20
Arsenic	1.7	91.2 (a) 87.9	101.9	9.4	20
Barium	5.0	96.3 (a) 87.9	103.9	12.2	20
Beryllium	0.0	2.3 (a) 2.2	104.7	14.0	20
Cadmium	0.12	2.3 (a) 2.2	99.2	9.1	20
Calcium					
Chromium	7.9	17.2 (a) 8.79	105.8	7.9	20
Cobalt	0.14	21.9 (a) 22	99.1	9.6	20
Copper	2.3	13.7 (a) 11	103.8	8.4	20
Iron					
Lead	8.2	29.0 (a) 22	94.7	7.5	20
Magnesium					
Manganese					
Molybdenum	0.0	19.9 (a) 22	90.6	8.4	20
Nickel	1.1	23.6 (a) 22	102.4	8.8	20
Potassium					
Selenium	0.0	89.4 (a) 87.9	101.7	10.4	20
Silver	0.0	2.3 (a) 2.2	104.7	14.0	20
Sodium					
Strontium					
Thallium	0.30	88.3 (a) 87.9	100.1	11.0	20
Tin					
Titanium					
Vanadium	2.1	24.9 (a) 22	103.8	11.0	20
Zinc	11.1	31.7 (a) 22	93.8	3.2	20

Associated samples MP37267: FA75190-1, FA75190-2, FA75190-3

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (N) Matrix Spike Rec. outside of QC limits  
 (anr) Analyte not requested  
 (a) Sample dilution required due to difficult matrix.



SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA75190  
 Account: SGSFLCAH - SGS Forensic Laboratories-Hayward, CA  
 Project: DB Gaya Consulting LLC; Petaluma Corp Yard, Petaluma, CA

QC Batch ID: MP37267  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: mg/kg

Prep Date: 05/23/20

Metal	BSP Result	Spikelet MPFLICP2 % Rec	QC Limits
Aluminum			
Antimony	24.1	25	96.4 80-120
Arsenic	89.6	100	89.6 80-120
Barium	87.7	100	87.7 80-120
Beryllium	2.4	2.5	96.0 80-120
Cadmium	2.4	2.5	96.0 80-120
Calcium			
Chromium	9.8	10	98.0 80-120
Cobalt	24.0	25	96.0 80-120
Copper	11.6	12.5	92.8 80-120
Iron			
Lead	24.0	25	96.0 80-120
Magnesium			
Manganese			
Molybdenum	22.2	25	88.8 80-120
Nickel	23.5	25	94.0 80-120
Potassium			
Selenium	87.3	100	87.3 80-120
Silver	2.3	2.5	92.0 80-120
Sodium			
Strontium			
Thallium	92.8	100	92.8 80-120
Tin			
Titanium			
Vanadium	23.1	25	92.4 80-120
Zinc	24.0	25	96.0 80-120

Associated samples MP37267: FA75190-1, FA75190-2, FA75190-3

Results < IDL are shown as zero for calculation purposes  
 (\*) Outside of QC limits  
 (anr) Analyte not requested

5.1.3  
5



# SERIAL DILUTION RESULTS SUMMARY

Login Number: FA75190  
 Account: SGSFLCAH - SGS Forensic Laboratories-Hayward, CA  
 Project: DB Gaya Consulting LLC; Petaluma Corp Yard, Petaluma, CA

QC Batch ID: MP37267  
 Matrix Type: SOLID

Methods: SW846 6010C  
 Units: ug/l

Prep Date: 05/23/20

Metal	FA75163-5 Original	SDL 5:25	%DIF	QC Limits
Aluminum				
Antimony	29.7	70.9	138.7(a)	0-10
Arsenic	40.0	37.5	6.3	0-10
Barium	116	96.2	17.3 (a)	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	2.70	0.00	100.0(a)	0-10
Calcium				
Chromium	183	190	3.9	0-10
Cobalt	3.20	0.00	100.0(a)	0-10
Copper	53.3	31.1	41.7 (a)	0-10
Iron				
Lead	192	227	18.5 (a)	0-10
Magnesium				
Manganese				
Molybdenum	0.00	0.00	NC	0-10
Nickel	25.7	22.2	13.6 (a)	0-10
Potassium				
Selenium	0.00	80.5	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium	6.90	128	1756.5(a)	0-10
Tin				
Titanium				
Vanadium	49.2	45.0	8.5	0-10
Zinc	259	253	2.0	0-10

Associated samples MP37267: FA75190-1, FA75190-2, FA75190-3

Results < IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).



## POST DIGESTATE SPIKE SUMMARY

Login Number: FA75190

Account: SGSFLCAH - SGS Forensic Laboratories-Hayward, CA  
Project: DB Gaya Consulting LLC; Petaluma Corp Yard, Petaluma, CA

QC Batch ID: MP37267

Methods: SW846 6010C

Matrix Type: SOLID

Units: ug/l

Prep Date:

05/23/20

Metal	Sample ml	Final ml	FA75163-5 Raw	FA75163-5 Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	9.8	10	29.7	29.106	133.4	0.2	5	100	104.3	80-120
Arsenic	9.8	10	40	39.2	162.2	0.2	5	100	123.0*(a	80-120
Barium	9.8	10	116.3	113.974	383.8	0.2	12.5	250	107.9	80-120
Beryllium	9.8	10			49.3	0.2	2.5	50	98.6	80-120
Cadmium	9.8	10	2.7	2.646	52.8	0.2	2.5	50	100.3	80-120
Calcium										
Chromium	9.8	10	183	179.34	228.1	0.2	2.5	50	97.5	80-120
Cobalt	9.8	10	3.2	3.136	53.2	0.2	2.5	50	100.1	80-120
Copper	9.8	10	53.3	52.234	164.4	0.2	5	100	112.2	80-120
Iron										
Lead	9.8	10	191.8	187.964	243.8	0.2	2.5	50	111.7	80-120
Magnesium										
Manganese										
Molybdenum	9.8	10			90.1	0.2	5	100	90.1	80-120
Nickel	9.8	10	25.7	25.186	129.5	0.2	5	100	104.3	80-120
Potassium										
Selenium	9.8	10			102	0.2	5	100	102.0	80-120
Silver	9.8	10			47.4	0.2	2.5	50	94.8	80-120
Sodium										
Strontium										
Thallium	9.8	10	6.9	6.762	113.8	0.2	5	100	107.0	80-120
Tin										
Titanium										
Vanadium	9.8	10	49.2	48.216	104	0.2	2.5	50	111.6	80-120
Zinc	9.8	10	258.5	253.33	500.7	0.2	12.5	250	98.9	80-120

Associated samples MP37267: FA75190-1, FA75190-2, FA75190-3

Results &lt; IDL are shown as zero for calculation purposes

(\*) Outside of QC limits

(\*\*) Corr. sample result = Raw \* (sample volume / final volume)

(anr) Analyte not requested

(a) Spike recovery indicates matrix interference and/or outside control limits due to high level in sample relative to spike amount.



February 2, 2021

Hopper Street Corporation Yard  
Petaluma, California

## Historic Resources Evaluation

**FINAL**

### INTRODUCTION

The City of Petaluma has requested that TreanorHL evaluate the Hopper Street Corporation Yard at 840 Hopper Street in Petaluma (APNs 007-171-008 and -016) for potential eligibility to be individually listed in the California Register of Historical Resources (CRHR) and as a local landmark.

The former wastewater treatment plant on site was identified as a potentially significance historic resource in the Central Petaluma Specific Plan for representing municipal architecture constructed in the 1930s throughout the United States and as one of few resources within Petaluma of this type.<sup>1</sup> The Carey & Co. historic resource reconnaissance survey of 2001 identified the Streamline Moderne building of the wastewater treatment plant as potentially eligible for listing in a local historic resource inventory. The Craftsman building on site was identified as ineligible for listing in the state or local inventories.<sup>2</sup>

### SUMMARY OF FINDINGS

Upon completion of the survey and archival work, it appears that the subject property and its individual components are not eligible for listing on either the state register or as local landmarks. Even though the primary and secondary digesters of the 1938 wastewater treatment plant appear to possess significance under the state and local criteria for their association with a significant Public Works Administration funded municipal infrastructure project in Petaluma and the secondary digester as a good example of the Streamline Moderne municipal architecture, they are ineligible for listing on the CRHR and as local landmarks due to their lack of integrity.

### METHODOLOGY

TreanorHL conducted a site visit on July 7, 2020 to evaluate the existing conditions, historic features, and architectural significance of multiple buildings and structures on site. In order to evaluate the historic significance of the property, online research was completed including consultation of historical aerials and photographs, newspaper articles, Sonoma County Assessor's Office records, Sonoma County Library Photograph Collection, and various other online repositories. Due to the shelter-in-place order related to the Covid-19 pandemic, TreanorHL did not conduct in-person research at any libraries or archives.

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<sup>1</sup> City of Petaluma, *Central Petaluma Specific Plan*, Adopted June 2, 2003, Resolution 2003-105 N.C.S., 109.

<sup>2</sup> *Ibid.*, 120.





This report includes:

- Property Description
- Architectural Styles
- Site History
- Historic Context
- Engineers and Contractors
- Regulatory Framework
- Evaluation of Historic Significance
- Bibliography
- Appendix

## PROPERTY DESCRIPTION

The City of Petaluma Hopper Street Corporate Yard is located to the north of the Petaluma River and west of Highway 101. Encompassing two parcels, the flat, rectangular site is on the south side of Hopper Street and currently features multiple structures including maintenance and administrative buildings, garages, auto shops, storage buildings, an animal shelter facility, former wastewater treatment plant structures, and numerous sheds.<sup>3</sup> Although located within the subject parcels, Mary Isaak Center at 900 Hopper Street (constructed ca. 2004), and the pump station at the northeast corner of the site (constructed 1973) are outside the scope of this study. Asphalt-paved open areas throughout the site form vehicular and pedestrian paths and surface parking lots. The immediate surroundings consist of light industrial uses to the north and vacant land to the south.



Figure 1. The Hopper Street Corporation Yard, outlined in red (Google Earth, imagery date September 2018).

<sup>3</sup> The building names used throughout the report reference to the *Overall Site Plan* provided by the City of Petaluma.



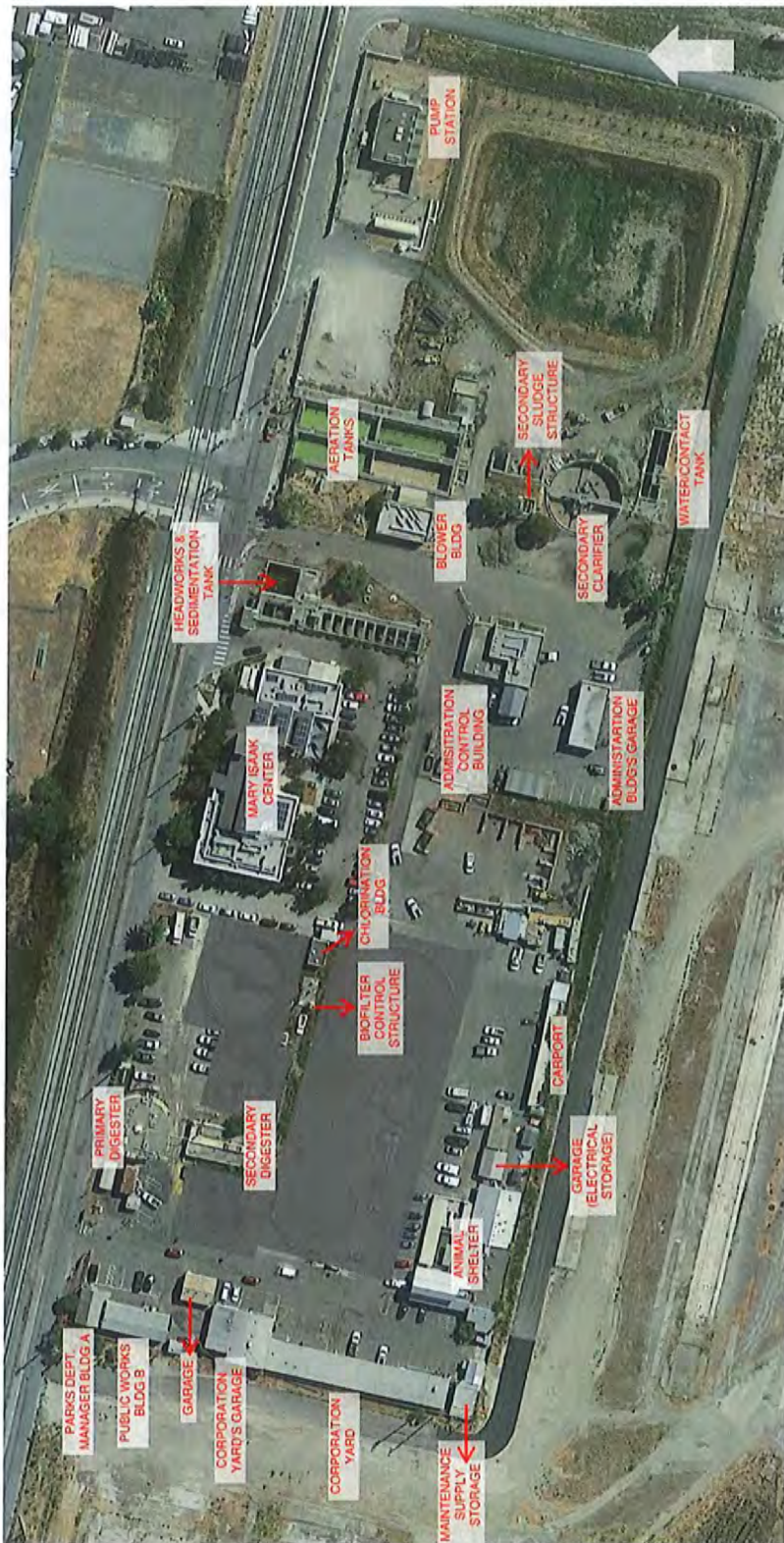


Figure 2. The overall site plan of the corporation yard (revised from Google Earth, imagery date September 2018).  
 Note: All infrastructure overlaid in gray have been removed and replaced with an asphalt surface lot that postdates the aerial image.



The primary entrance to the site is at the northwest corner from Hopper Street. A series of one-story buildings line up along the west end of the property. **Parks Department Manager Building A** is a one-story wood frame building. Rectangular in plan, this ca. 1915 Craftsman bungalow has horizontal wood clad walls and an asphalt shingle-clad gable roof. The primary window type is wood-sash one-over-one double-hung with wide wood trim. A gabled partial-width entry porch with square posts projects from the front (east) façade and shelters the main entrance which consists of a single multi-lite wood door. Notable features include a wide eave overhang, exposed rafter tails, and brackets at the gables.

**Public Works Maintenance and Operations Building B** is a one-story wood-frame structure rectangular in plan. The building has horizontal wood siding and a low-pitched, asphalt shingle-clad gable roof. A wood ramp along the front (east) façade leads to the main entrance—a single aluminum-sash glazed door. Three pairs of windows with wide wood trim appear on this façade. Two detached small storage sheds with gable roofs are located to the southwest and southeast.

Immediately to the southeast stands a one-story **garage** building. Rectangular in plan, this building has metal clad walls and a side-gabled standing seam metal roof. Two roll-up garage doors are on the east façade. A multi-lite metal-sash window is centered below the gable on the south façade. Another multi-lite metal window and a narrow single door appear on the north façade.

The **Corporation Yard's garage** features two attached structures: a break room/office to the north and an auto shop to the south. The one-story break room has vertical wood siding at the exterior walls and an asphalt shingle-clad shed roof. The east façade features a single flush door and a group of three small windows. The north façade has a central single door flanked by windows. All openings have plain wide trims. The attached auto shop is a tall one-story concrete structure with a barrel vault roof. Clad in vertical wood siding, the east façade features two wide roll-up metal garage doors. The south façade has a multi-lite metal-sash window.

The single-story **Corporation Yard structure** is approximately 175-foot long and consists of semi-open and enclosed areas under a shed roof with exposed rafters. The walls are metal-clad. The north and south ends of the shed have enclosed structures used for storage. A mix of doors and rectangular metal-sash windows punctuate the walls. All openings have simple wide wood trims. The central car port is open along the east façade and supported by metal posts. A one-story structure with a shed roof and an open porch projects to the east at the northern end.

A one-story **maintenance supply storage building** is located at the southwest corner of the site. Roughly L-shaped in plan, this building has mostly vertical wood clad exterior walls and a mix of gable and shed metal roofs. The front (north) façade has two single flush doors—the eastern one shaded by a corrugated metal awning—and two vinyl windows with wide wood trims.

The **animal shelter** facility consisting of multiple structures is located close to the southwest corner of the site. The main building is a contemporary one- and two-story structure. A number of aluminum-sash windows pierce the corrugated metal-clad walls. Six other utilitarian structures with a mix of gable and shed roofs and cladding materials—with no coherent architectural style—are to the east and south of the main building.

The one-story **garage (electrical storage)** building is rectangular in plan. The wood-frame building has plywood clad walls with vertical battens and an asphalt shingle-clad gable roof. The front (north) façade features a one-lite-over-one-panel wood door and a roll-up garage door is on the west façade. Two similar but smaller



detached storage sheds with gable roofs are located to the south, and a group of metal shipping containers stand east of the garage.

An approximately 100-foot long **carport** is along the southern boundary of the site. Rectangular in plan, this wood-frame structure has metal supports along its open north side and a corrugated metal-clad shed roof with exposed rafter tails. The wood panel clad walls enclose the structure on three sides.

Located to the east of the main site entrance driveway, the **primary digester** is a circular concrete structure near Hopper Street, roughly two-story tall and 55 feet in diameter. It has no openings. A flight of concrete stairs with metal railing provide access to the flat roof.

The **secondary digester** to the south of the primary digester is a one-story, board-formed concrete structure. Rectangular in plan, it has a flat roof and a parapet with etched lines running along the roof line. The multi-lite steel sash windows on the front (north) façade wrap around the rounded corners at the northwest and northeast. Four concrete steps descend from the parking lot to the partially sunken building's main entrance—a six-panel door set within a larger infilled opening on the west façade. Metal stairs attached to the building on the north side provide access to the roof.

To the southeast is the **chlorination building**, a one-story board-formed concrete structure. The front (north) façade features a single flush door and a three-lite steel-sash window. The engraved lettering at the top reads HEALTH, CHLORINATION STATION, and PROGRESS. Both the west and south façades have a multi-lite steel-sash window.

A **biofilter control structure** is immediately to the west. This small board-formed concrete structure is square in plan, roughly 5 feet by 5 feet, with chamfered corners. It has a single metal door with glazed top panels on the east façade, a two-lite metal-sash awning window on the west, and a metal vent each on the north and south. The structure sits on a concrete platform with associated equipment.

**Mary Isaak Center** is roughly located at the center of the site along Hopper Street. Constructed ca. 2004, this one- to three-story contemporary building is separated from the rest of the site by a U-shaped driveway and a parking lot surrounded by a fence.

The **headworks** and the **primary sedimentation tank** are to the east of Mary Isaak Center. This roughly L-shaped concrete structure is partially below grade with a series of tanks. The above grade sections feature platforms and walkways with metal railings.

To the south is the 1967 one- and two-story **administration control building**, a concrete frame structure with a flat roof. It has stacked smooth face concrete block unit exterior walls topped with a tall painted concrete parapet. The primary window type is multi-lite metal-sash some of which were replaced with aluminum sliders. Two steel roll-up doors are on the south façade. The main entrance is on the east façade and consists of a wood-panel double door with leaves of differing widths with a fixed transom. A recently added two-story metal structure with a gable roof is attached to the west façade. Located to the southwest, the **administration building's garage** is a one-story building rectangular in plan. It has stacked concrete block unit exterior walls, a tall painted concrete parapet, and a flat roof. The north façade features four steel roll-up garage doors.

The secondary sludge structure, the secondary clarifier, and the associated water tanks are grouped together on the east end of the site. These are utilitarian concrete structures. The **secondary sludge structure** is a simple one-story concrete box. A metal staircase on the south side provides access to the top. The **secondary clarifier** is an



open circular tank, approximately 70 feet in diameter, below the ground level. The associated equipment such as the walkway, rake arms, and scraper blades, are still extant. The rectangular **water/contact tanks** are below grade open tanks.

Also constructed in 1967, the **blower building** is very similar to the administration control building. Rectangular in plan, this one-story structure also has stacked concrete block unit exterior walls, a tall painted concrete parapet, and a flat roof. The south wall and a section of the west wall are set back from the roof line. A tall metal double door is on the south side of the building and a single door with one vertical lite and a transom is on the west side.

The **aeration tanks** are large rectangular partially below-grade tanks located directly east of the blower building. The concrete structure is divided into four tanks and has a peripheral and a central walkway with metal pipe railings.

The one-story **pump station** stands at the northeast corner of the site. The rectangular building with a flat roof was constructed in a similar architectural style to the administration control building as well. Numerous additional trailers and storage sheds are scattered around the site.



Figures 3 and 4. Parks Department Manager Building A (left) and Public Works Maintenance and Operations Building B (right).



Figures 5 and 6. Garage (left) and Corporation Yard's garage (right).





Figures 7 and 8. Corporation Yard structure.



Figure 9. Maintenance supply building.



Figures 10 and 11. Animal Shelter (left) and garage—electrical storage (right).





Figure 12. Carport.



Figures 13 and 14. Primary digester (left) and secondary digester (right).



Figures 15 and 16. Chlorination building (left) and biofilter control structure (right).



Figures 17 and 18. Administration control building (left) and its garage (right).





Figures 19 and 20. Secondary sludge structure (left) and secondary clarifier (right).



Figures 21 and 22. Blower building (left) and aeration tanks (right).

## ARCHITECTURAL STYLES

Parks Department Manager Building A, constructed ca. 1915, was designed in the **Craftsman** architectural style. A dominant style for smaller houses in the early 20<sup>th</sup> century, it is identified by low-pitched gabled roofs with wide, unenclosed eave overhangs; exposed roof rafters; decorative beams or braces under gables; full- or partial-width porches supported with square columns; one- or one-and-a-half story.<sup>4</sup>

The secondary digester was designed in the **Streamline Moderne** style. Prevalent from the mid-1930s to the 1950s, the style referenced aerodynamic forms of airplanes, ships, automobiles of the period with sleek, streamline rounded corners and curves. Common characteristics of this style include emphasis on horizontality, rounded corners, speed lines, flat roofs, light-colored smooth stucco or concrete walls, and wraparound windows at the corners.<sup>5</sup> Many buildings constructed between 1933 and 1944 by the Public Works Administration used elements of Streamline Moderne style.<sup>6</sup> The primary digester was also constructed as part of the initial wastewater treatment plant, but lacks elements of the Streamline Moderne and is more utilitarian in character. The chlorination building and the biofilter control structure were added in the 1950s and while both concrete buildings have small elements reminiscent of the Streamline Moderne (i.e. the inscribed lettering and chamfered corners) overall they are more utilitarian.

<sup>4</sup> Virginia Savage McAlester, *A Field Guide to American Houses* (New York: Alfred A. Knopf, 2013), 567.

<sup>5</sup> Mary Brown, *San Francisco Modern Architecture and landscape Design 1935-1970, Historic Context Statement* (January 12, 2011), 164-165; Cyril Harris, ed., *Dictionary of Architecture and Construction* (New York: Dover Publications, 1977), 952.

<sup>6</sup> Harris, *Dictionary of Architecture and Construction*, 779.



The administration control building, the administration building's garage, and the blower building on the eastern half of the site were constructed in 1966-1967 and reflect the characteristics of the **Modern** architectural style. Beginning in the 1950s, commercial, institutional, and industrial buildings incorporated Modern style elements in the design of functional, utilitarian buildings such as simple, cubic forms—often horizontally oriented; asymmetrical facades; ribbon windows; and brick, concrete or stucco cladding.<sup>7</sup>

The remaining buildings and structures on site are utilitarian in character.

## SITE HISTORY

The small Craftsman house at the northwest corner of the wastewater treatment plant was originally constructed at 218 Post Street in downtown Petaluma ca. 1915.<sup>8</sup> The house was purchased by the City during the clearing of the residential block between English and Bassett streets for the construction of a new city hall and was moved to the wastewater treatment plant site in 1953 to be used as the caretaker's residence.<sup>9</sup> It was later converted to an office.

The former wastewater treatment plant on Hopper Street was constructed as part of a larger Petaluma sewer system project in the late 1930s. Partially funded by Public Works Administration (PWA), the project included three units: main intercepting sewers (Unit A), pumping and treatment plant (Unit B), and separation of storm sewers from sanitary system (Unit C). The seven-acre property on which the treatment plant was constructed was purchased for \$2,800 in 1937.<sup>10</sup> Plans for the wastewater treatment plant were approved in late 1937 and construction started in 1938. The consulting engineer was Harry N. Jenks and the contractor was Fred J. Early, Jr. of San Francisco. The construction contract was awarded originally at a cost of approximately \$98,000 but another \$13,000 was added later because the foundation pilings were needed at the storage tanks.<sup>11</sup> Preliminary tests were successfully completed in September 1938.<sup>12</sup> The wastewater treatment plant was formally accepted from the contractor in December 1938. The other two units of the sewer system project were also completed in 1938.<sup>13</sup>

Harry N. Jenks proposed enlargement of the plant and improvement of the sewer system as early as 1949 due to efficiency capacity issues and acted as the consulting engineer of the 1953-1954 expansion.<sup>14</sup> According to the 1952 aerial photograph, the treatment plant featured five tanks around the secondary digester. A special sewer bond election for \$575, 000 was held in March 1953 and approved for doubling the capacity of the plant by constructing a biofilter, a clarifier, additional sludge drying beds as well as improving and replacing older lines, and storm drainage relief.<sup>15</sup> Preliminary work at the plant started in May 1953 by North Bay Construction Company of Santa Rosa and the Helwig Construction Company of Healdsburg, and completed in 1954.<sup>16</sup>

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<sup>7</sup> Brown, *San Francisco Modern Architecture and Landscape Design*, 177.

<sup>8</sup> *Petaluma-Argus Courier* advertisements from 1915-1916; 1910 and 1923 Sanborn maps.

<sup>9</sup> 1910 and 1923 Sanborn maps; "Two ordinances run into snags," *Petaluma Argus-Courier*, June 16, 1953; "City moves last house," *Petaluma Argus-Courier*, August 18, 1953.

<sup>10</sup> "Property for new Petaluma sewer plant is approved," *Santa Rosa Republican*, November 3, 1937; "Petaluma sewer project map," *Petaluma Argus-Courier*, March 31, 1938.

<sup>11</sup> "Petaluma sewer project map," *Petaluma Argus-Courier*, March 31, 1938; "County briefs," *The Healdsburg Tribune and Enterprise*, February 21, 1938.

<sup>12</sup> "Sewer plant is tested with success," *Petaluma Argus-Courier*, September 3, 1938.

<sup>13</sup> "New sewer treatment plant accepted by city council on report of engineer," *Petaluma Argus-Courier*, December 13, 1938.

<sup>14</sup> "Sewer plant data, proposal made to council by Jenks," *Petaluma Argus-Courier*, August 13, 1952.

<sup>15</sup> "Petaluma's special sewer bond election," *Petaluma Argus-Courier*, March 27, 1953; "Petaluma council moves quickly on sewage plant," *The Press Democrat*, April 14, 1953; "Big sewage plant project is ahead of set schedule," *Petaluma Argus-Courier*, August 13, 1953.

<sup>16</sup> "Sewage plant work started here on Monday," *Petaluma Argus-Courier*, May 26, 1953; "Sewage plant completion seen soon," *Petaluma Argus-Courier*, January 6, 1954.



According to the historical photos, the chlorination building was also constructed during this expansion. The 1966 site plan shows that a laboratory (not extant), a centrifuge (not extant), the biofilter control structure (marked as "recir. pumps" on the 1966 site plan) were added to the facility in the mid-20<sup>th</sup> century.

The city's corporation yard was moved to the site of the treatment plant on Hopper Street during this time. In 1953, the former city corporation yard was sold, and a new sanitation building was constructed in 1954 on the treatment plant site to house city equipment, supplies and vehicles.<sup>17</sup> A newspaper article from 1954 states that a shop building on site was used to maintain most of the city's equipment, including parking meters.<sup>18</sup> The pound (animal shelter) was also located on the subject site.<sup>19</sup>

By the mid-1960s, the plant was working at more than peak capacity and the city faced drainage problems especially during wet season; so, the plant was expanded towards east in the late 1960s. This expansion, known as "water pollution control plant," was part of a master sewer plan and was designed by consulting engineers M. Carlton Yoder Associates. The construction by C. Norman Peterson Co. started in July 1966 and was completed in December 1967. The financing for the \$1.8 million cost was provided through a bond issue and federal funds. The new plant added an additional two-million-gallon daily capacity to the old plant's existing one-million-gallon. The new headworks, sedimentation tank, administration control building and garage, blower building, secondary clarifier and sludge structure, water/contact tank, aeration tanks, and sludge lagoons were constructed by C. Norman Peterson Co.<sup>20</sup>

The 1968 aerial photograph of the site shows that Parks Department Manager Building A, the garage, and the Corporation Yard structures were added along the western boundary of the site in the 1960s. Safety railings were added at the sedimentation tank and aeration tank in 1969. The break room/office was added to the Corporation Yard's garage in 1971. The pump station at the northeast corner of the site was designed in 1973 by Yoder – Trotter – Orlob & Associates, Engineering Consultants.<sup>21</sup>

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<sup>17</sup> "Sewage plant completion seen soon," *Petaluma Argus-Courier*, January 6, 1954; "Petaluma council moves quickly on sewage plant," *The Press Democrat*, April 14, 1953.

<sup>18</sup> *Petaluma Argus-Courier*, September 22, 1954, page 1.

<sup>19</sup> Ibid.

<sup>20</sup> "Sewer backs up," *Petaluma Argus-Courier*, January 5, 1966; "Petaluma sewer plant open; third phase on the way," *The Press Democrat*, December 20, 1967; "Petaluma sewer plant is nearing completion," *The Press Democrat*, January 7, 1968.

<sup>21</sup> City of Petaluma, Department of Public Works, Safety Railing and Water Pollution Control Facilities, February 1, 1969; City of Petaluma Corporation Yard, Coffee Room, Locker & Toilet Room, January 19, 1971; Yoder Trotter Orlob & Associates, Water Pollution Control Facilities, May 1973.



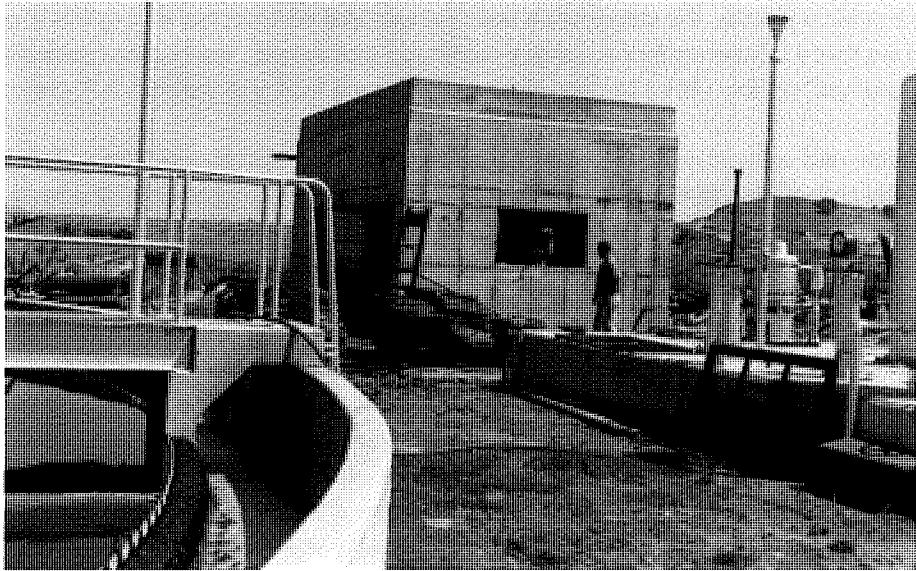


Figure 23. The final sedimentation tank (not extant) and the chlorination building during construction, ca. 1954 (Sonoma County Library Digital Collections).

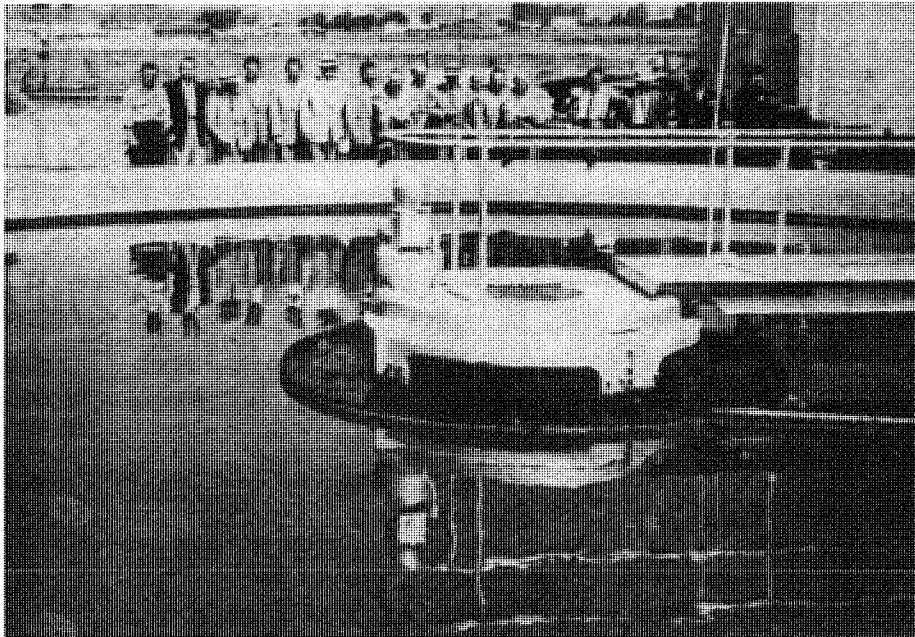


Figure 24. Directors of the Chambers of Commerce visiting the new tank at the plant in 1954 (*Petaluma Argus-Courier*, September 22, 1954).



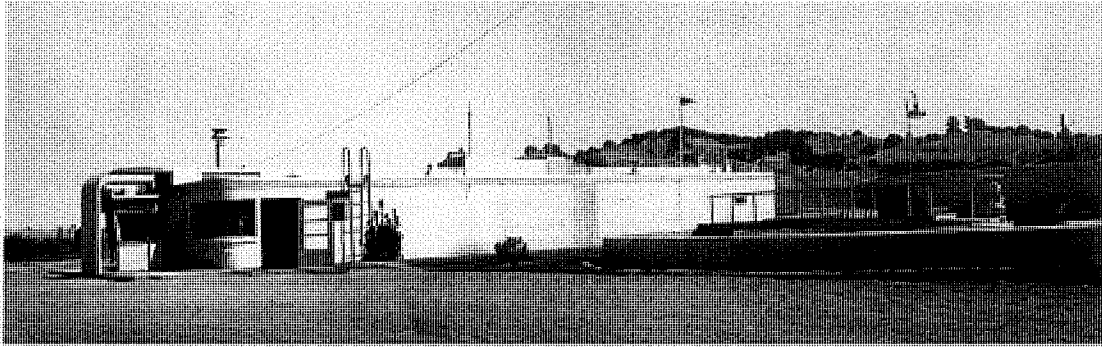


Figure 25. The secondary digester, no date (Rinehart, 71).

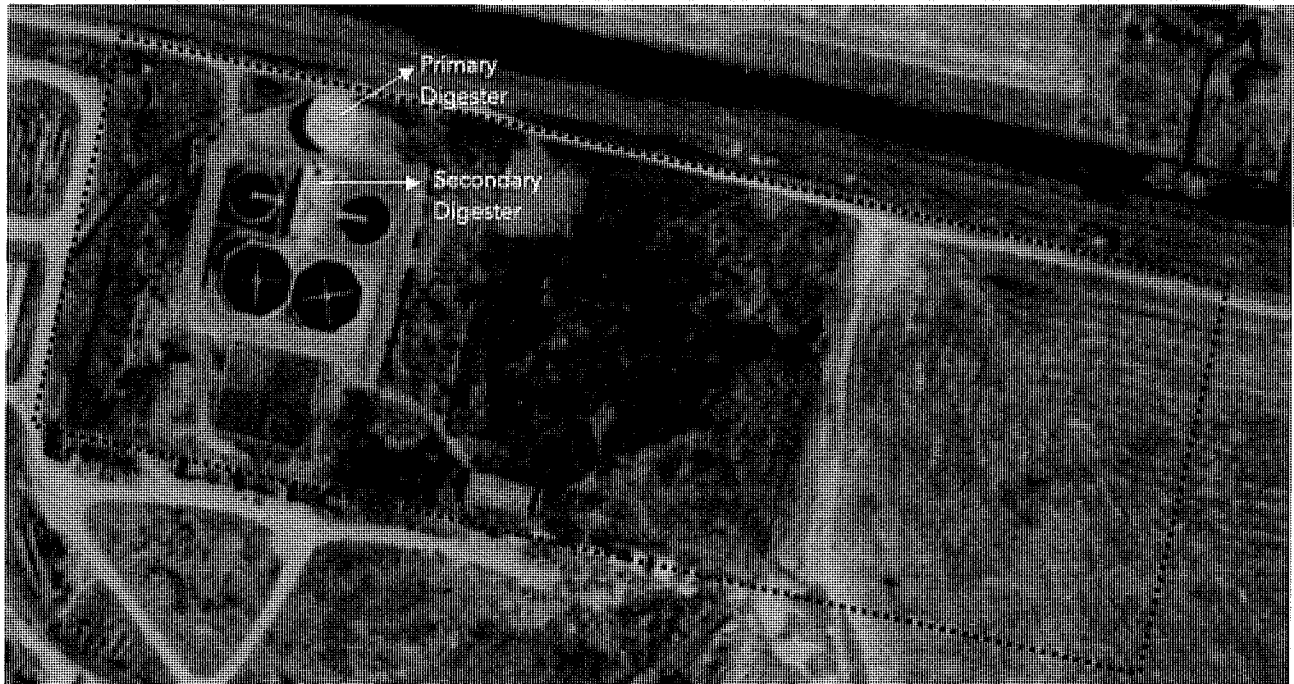


Figure 26. The 1952 aerial photograph; the structures that are still extant are labeled (Historic Aerials by NETR Online).



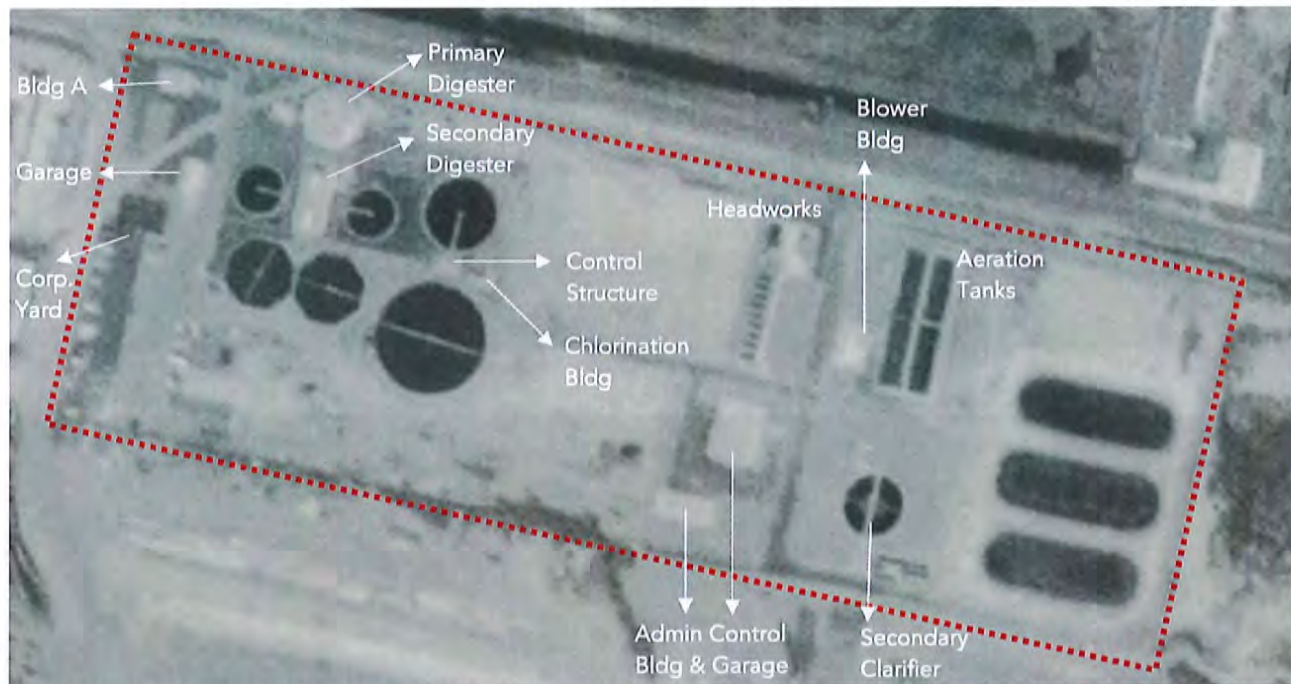


Figure 27. The 1968 aerial photograph; the structures that are still extant are labeled (Historic Aerials by NETR Online).

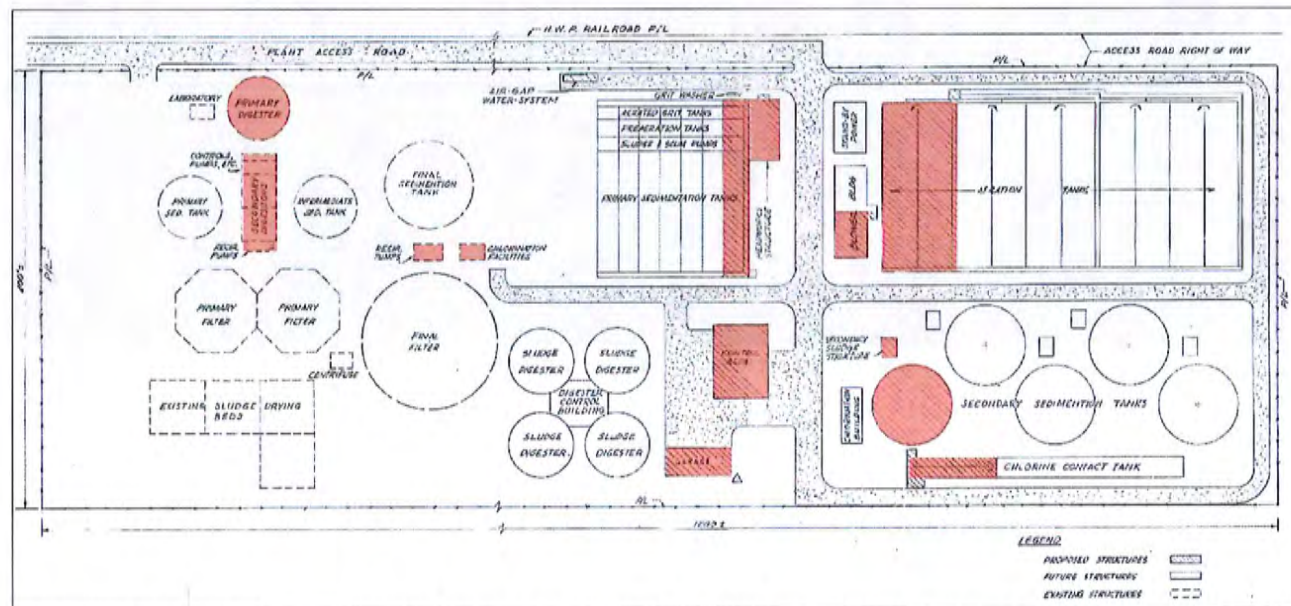


Figure 28. The site plan showing the existing and proposed buildings of the treatment plant in 1966; the structures that are still extant are highlighted in red (M. C. Yoder Associates, 1966).



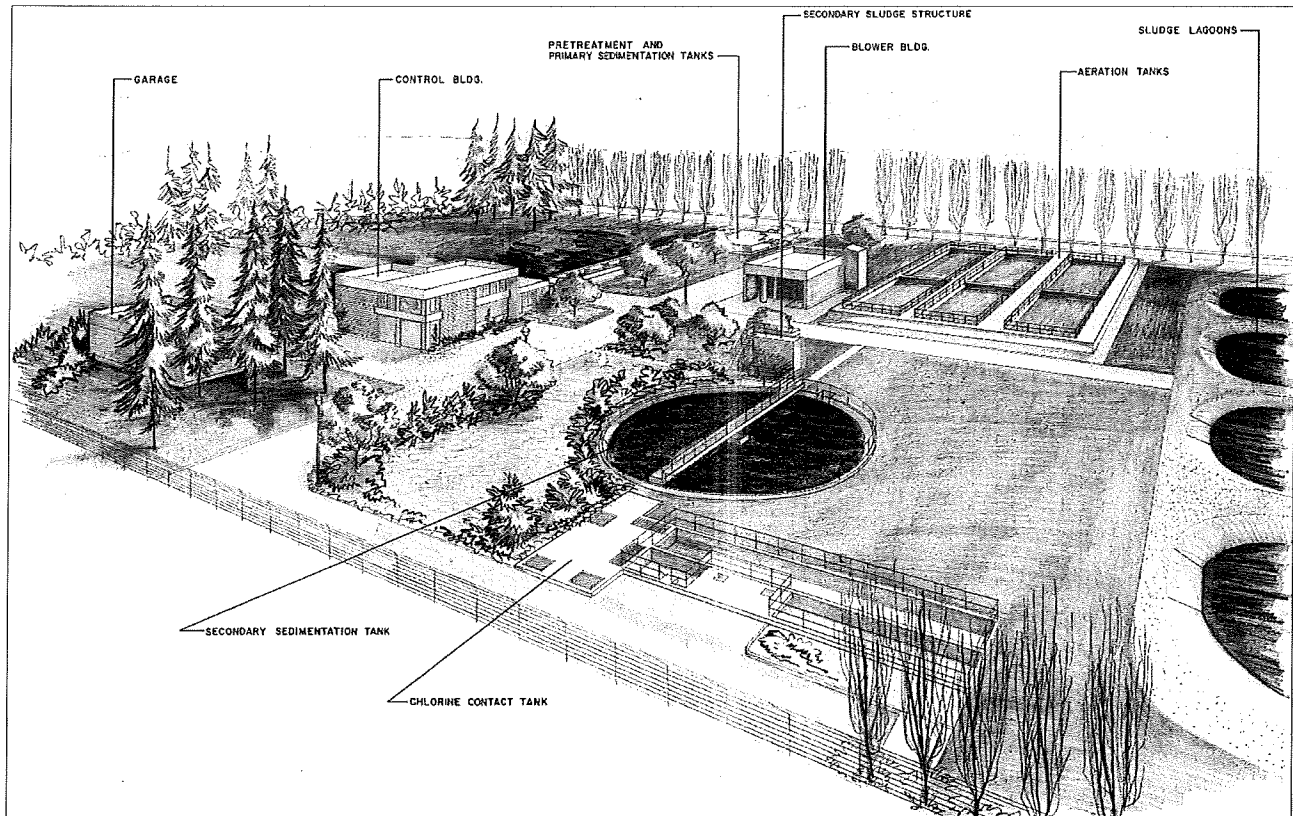


Figure 29. The perspective showing the proposed buildings in 1966 (M. C. Yoder Associates, 1966).

The group of buildings which are currently occupied by the animal shelter were constructed ca. 2000. Public Works Maintenance and Operations Building B was added to the site ca. 2006.<sup>22</sup>

The wastewater treatment plant was decommissioned in 2009, after completion of the Ellis Creek Water Recycling Facility. The former sludge lagoons at the southeast corner of the site were abandoned ca. 2009. The plant site remained largely vacant until ca. 2014 when additional city facilities were moved to the site. The former digesters, clarifiers, and biofilter structures on the western portion of the site were demolished ca. 2019.

Table 1. Matrix of buildings and structures within the Hopper Street Corporation Yard.

Name	Year Built	Source
Parks Department Manager Building A	ca. 1915	Sanborn maps
Primary Digester	1938	Newspaper articles
Secondary Digester	1938	Newspaper articles
Chlorination Building	1954	Newspaper articles, historic photos, aerial photos

<sup>22</sup> Google Earth, Historical imagery.



Name	Year Built	Source
Biofilter Control Structure	ca. 1954	Newspaper articles, aerial photos
Headworks & Primary Sedimentation Tank	1967	Drawings, newspaper articles
Blower Building	1967	Drawings, newspaper articles
Administration Control Building	1967	Drawings, newspaper articles
Administration Building's Garage	1967	Drawings, newspaper articles
Secondary Sludge Structure	1967	Drawings, newspaper articles
Secondary Clarifier	1967	Drawings, newspaper articles
Secondary Sludge Structure	1967	Drawings, newspaper articles
Water/Contact Tanks	1967	Drawings, newspaper articles
Aeration Tanks	1967	Drawings, newspaper articles
Garage	1954	Newspaper articles
Corporation Yard	1954	Newspaper articles
Corporation Yard's Garage	1954 & 1971	Newspaper articles (garage), drawings (break room addition)
Pump Station	1973	Drawings
Maintenance Supply Storage Building	ca. 1975	Aerial photos
Garage (Electrical Storage)	ca. 1975	Aerial photos
Carport	ca. 1975	Aerial photos
Animal Shelter	ca. 2000	Aerial photos
Mary Isaak Center	ca. 2004	Aerial photos
Public Works Maintenance & Operations Building B	ca. 2006	Aerial photos



## HISTORIC CONTEXT

Located 40 miles north of San Francisco, in central Sonoma County, Petaluma began as a center of produce shipping. From its earliest days, Petaluma supported a broad mix of uses, including industry, navigation, shipping, and trade, as well as general commercial stores and housing—which set the city apart from the neighboring suburban communities. Bisected by the Petaluma River, the city occupies approximately 14 square miles surrounded by rural and open space lands.<sup>23</sup>

The area where Petaluma is located today was under the control of the Petalumas, a tribe of the Coast Miwok people, and later the Sonoma Mission in the early 19<sup>th</sup> century. The town of Petaluma received its first white settlers after the start of the Gold Rush, drawn by the access that the Petaluma River provided to markets in San Francisco. The town was laid out in 1852, and both residential and commercial wood frame buildings started to be constructed. By the end of the year the town had three hotels, several stores, and a number of warehouses.<sup>24</sup>

Petaluma and its commercial district grew rapidly in the 1850s. The town became the main shipping port for the surrounding agricultural region that specialized in grains and dairy products. The local population grew to 1,500 by the end of the decade and Petaluma's port became one of the busiest in the state. The town, which had grown to be the largest in Sonoma county, incorporated in 1858. The industrial areas featuring warehouses and processing plants were developed primarily to the east of downtown Petaluma while the main residential area grew to the west. Petaluma's population roughly doubled between 1860 and 1880.<sup>25</sup>

For a few decades, the east side of Petaluma remained as undeveloped property held by the rail companies. After it was platted, the river became the focal point for neighborhoods on the periphery of the center. The east bank of the river took on a more commercial/industrial character flanked by residential neighborhoods. This large area known for years as "Old East" Petaluma. The rail service shifted to the east bank of the river and extended up the coast. The Main Line and the Depot were established on the east.<sup>26</sup>

The economic depression of the 1890s affected the region; business in Petaluma slowed during this period. The markets for California grain diminished. As the national economy improved at the turn of the century, the future of commerce in Petaluma depended on a revival of local agriculture. Two Petaluma men had invented the first workable incubator in 1879, and poultry-raising dominated the Petaluma Valley in the early 20<sup>th</sup> century. Petaluma's population more than doubled between 1900 and 1930.<sup>27</sup> Following World War I, the Petaluma egg industry was struggling, so the Chamber of Commerce hired the public relations specialist Bert Kerrigan who came up with the tag line "The World's Egg Basket." A National Egg Day and Petaluma's Butter & Egg Days Parade started to be celebrated and brought national attention to Petaluma.<sup>28</sup>

The dairy industry was equally important in the city, and Petaluma became one of the largest producers in Sonoma County and the state. Along with the chicken ranches and dairies, the supporting businesses such as hatcheries, feed stores, creameries formed while creating new jobs, demand for housing and increased wealth.<sup>29</sup>

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<sup>23</sup> *Central Petaluma Specific Plan*, 13.

<sup>24</sup> Summarized from Donald S. Napoli, *Petaluma Historic Commercial District, National Register of Historic Places Registration Form* (November 2, 1994), Section number 8, Page #27-30; Adair Heig, *History of Petaluma: A California River Town* (Petaluma, CA: Scottwall Associates, 1982), 1

<sup>25</sup> Napoli, *Petaluma Historic Commercial District*.

<sup>26</sup> *Central Petaluma Specific Plan*, 14-15.

<sup>27</sup> Napoli, *Petaluma Historic Commercial District*.

<sup>28</sup> "Petaluma's Rich History," Visit Petaluma, <https://www.visitpetaluma.com/petaluma-california/history/> (accessed July 13, 2020).

<sup>29</sup> Katherine J. Rinehart, *Petaluma: A history in architecture* (Charleston, SC: Arcadia Publishing, 2005), 7-8.



The city was also known as a major manufacturing center due to its proximity to river and rail transportation routes. During the late 19<sup>th</sup> and early 20<sup>th</sup> century, firms such as the Carlson Currier company, Lachman and Jacobi Winery, Heynemann Overall Factory, Nolan-Erle Shoe Company, several tanneries, and a woolen mill operated in Petaluma.<sup>30</sup>

Once the Golden Gate Bridge was constructed in 1936 and as poultry farming declined in the 1940s, Petaluma began to become more of a bedroom community to the Bay Area. The chicken farms to the west were converted to large-lot residential use. With the construction of Highway 101 in 1957, the city began to expand to the east: "The city's center of gravity shifted eastward and the freeway replaced the river as the primary corridor within the community."<sup>31</sup>

### Lower Reach

Hopper Street Corporation Yard is located in the Lower Reach area of Petaluma:

[...] the Lower Reach area is defined by the Petaluma River to the west, Lakeville Street to the east, and by the Highway and D Streets to the south and north. The center of the area contains the mostly vacant McNear Peninsula and the McNear Channel which is used by the industries located along its banks. The former Petaluma and Santa Rosa railroad tracks, now owned by the Northwest Pacific Railroad, run parallel to Lakeville Street. One of the larger industrial enterprises, Jerico Products is sited at the north end of McNear Peninsula at the D Street bridge. The facility faces the Riverfront Warehouse District. From this vantage point, the confluence of extant buildings at this point along the river is an indicator of the historic character of the Petaluma waterfront. More independently sited, the large industries and municipal services along the Channel are in keeping with the agricultural enterprises to the north.<sup>32</sup>

### Public Works Administration<sup>33</sup>

The Federal Emergency Administration of Public Works was created by the National Industrial Recovery Act of 1933 which aimed to encourage national industrial recovery, to foster fair competition, and to provide for the construction of certain useful public works. The agency's role was to prepare a comprehensive program of public works including projects related to highways, buildings, natural resource conservation, energy, flood control, housing, and more. The new agency became known as the Public Works Administration (PWA).

The PWA started with a budget of \$3.3 billion, the largest amount ever allotted to a public works scheme at the time, and later supplemented by subsequent appropriations acts. Over its ten-year life, the PWA would radically transform the nation's major infrastructure. By 1939, it had contributed over \$3.8 billion towards the construction of 34,000 projects. Some prominent PWA-funded projects are New York's Triborough Bridge, Grand Coulee Dam, the San Francisco Mint, Reagan National Airport, and Key West's Overseas Highway.

The PWA administered loans and grants to state and local governments, which then hired private contractors to do the work. This arrangement was intended to increase demand for labor and construction goods, and consequently act as a catalyst for economic recovery. The PWA let state and local governments take the lead in choosing which projects they wanted built, what designs to use, and who to contract with. Costs were shared roughly half-and-half, but this varied by time, place, and project.

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<sup>30</sup> Ibid., 8.

<sup>31</sup> *Central Petaluma Specific Plan*, 16-17.

<sup>32</sup> Ibid., 109.

<sup>33</sup> Unless noted, the following paragraphs were largely taken from "Public Works Administration (PWA) (1933)," *The Living New Deal*, <https://livingnewdeal.org/glossary/public-works-art-project-pwap-1933/> (accessed July 15, 2020).



After the Reorganization Act of 1939, the PWA was put under the newly created Federal Works Agency and its functions shifted toward war preparations. In 1943, President Roosevelt terminated the PWA and transferred its functions, powers, and duties to the Federal Works Administrator.

Petaluma and the Sonoma County received a number of construction projects during the 1930s funded by the PWA and the Works Progress Administration including the city's sewer system, the grading of 1,292 feet of city streets, the painting of seven schools, and construction of a post office, Fire Department building, Wickersham Park, and the new D Street Bridge. The Sonoma County Hospital building in Santa Rosa, the Santa Rosa Junior College improvements were among the Sonoma County projects funded by the PWA.<sup>34</sup>

### ENGINEERS AND CONTRACTORS

Harry N. Jenks was the consulting engineer for the construction of the wastewater treatment plant in 1937-1938 and its first expansion in the early 1950s. He studied civil engineering with sanitary engineering as his major at University of California. He worked for public departments, acted as consulting sanitary engineer to many municipalities and government agencies, and taught at multiple universities during his career. He also worked on many other reinforced concrete sewage treatment plants including the City of Santa Cruz; the Marin County Sanitary District, San Anselmo; and the Healdsburg's sewage disposal project.<sup>35</sup>

The contractor for the 1938 wastewater treatment plant was **Fred J. Early, Jr.** (1905-1992). Early was a native of Chicago and a graduate of the University of California at Berkeley. He founded the Fred J. Early Jr. Company in 1930, which specialized in construction of public buildings, water and sewage treatment plants, pumping stations, dams, and bridges. The company's major projects include the Richmond – San Rafael Bridge, Folsom Dam, the Montgomery Street BART station in San Francisco, the San Francisco Wastewater Treatment Plant.<sup>36</sup>

**M. Carleton Yoder** was the consulting engineer and **C. Norman Peterson Co.** was the contractor for the 1966-1967 expansion of the plant. Yoder (1914-2001) was a civil and sanitary engineer who acted as a consultant engineer for multiple sanitation surveys and sewage treatment plants in Northern California.<sup>37</sup> C. Norman Peterson Co. was a Berkeley engineering and contracting firm specializing in building water treatment and sewage disposal plants.<sup>38</sup>

### REGULATORY FRAMEWORK

The regulatory background provided below offers an overview of state and local criteria used to assess historic significance.

#### California Register of Historical Resources Criteria

The California Office of Historic Preservation's Technical Assistance Series #6, *California Register and National Register: A Comparison*, outlines the differences between the federal and state processes. The criteria to be used when establishing the significance of a property for listing on the CRHR are very similar, with emphasis on local and state significance. They are:

1. It is associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States; or

<sup>34</sup> The Living New Deal, <https://livingnewdeal.org/us/> (accessed July 15, 2020); Rinehart, *Petaluma: A history in architecture*, 8.

<sup>35</sup> *Architect and Engineer*, June 1948 and July 1948; *Healdsburg Tribune*, December 2, 1937.

<sup>36</sup> "Fred J. Early, Jr.," *San Francisco Chronicle*, September 10, 1992; Ancestry.com.

<sup>37</sup> Recordnet.com; Newspapers.com.

<sup>38</sup> *San Francisco Chronicle*, October 16, 1974.

2. It is associated with the lives of persons important to local, California, or national history; or
3. It embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values; or
4. It has yielded, or is likely to yield, information important to prehistory or history of the local area, California, or the nation.<sup>39</sup>

The CRHR requires the establishment of historic significance before integrity is considered. California's integrity threshold is slightly lower than the federal level. As a result, some resources that are historically significant but do not meet National Register of Historic Places (NRHP) integrity standards may be eligible for listing on the CRHR.<sup>40</sup>

California's list of special considerations is shorter and more lenient than the NRHP. It includes some allowances for moved buildings, structures, or objects, as well as lower requirements for proving the significance of resources that are less than 50 years old and a more elaborate discussion of the eligibility of reconstructed buildings.<sup>41</sup>

In addition to separate evaluations for eligibility for the CRHR, the state automatically lists on the CRHR resources that are listed or determined eligible for the NRHP through a complete evaluation process.<sup>42</sup>

### *Integrity*

Second, for a property to qualify under the CRHR's Criteria for Evaluation, it must also retain "historic integrity of those features necessary to convey its significance."<sup>43</sup> While a property's significance relates to its role within a specific historic context, its integrity refers to "a property's physical features and how they relate to its significance."<sup>44</sup> To determine if a property retains the physical characteristics corresponding to its historic context, the National Register has identified seven aspects of integrity, which the CRHR closely follows:

Location is the place where the historic property was constructed or the place where the historic event occurred...

Design is the combination of elements that create the form, plan, space, structure, and style of a property...

Setting is the physical environment of a historic property...

Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property...

Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory...

Feeling is a property's expression of the aesthetic or historic sense of a particular period of time...

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<sup>39</sup> California Office of Historic Preservation, *California Register and National Register: A Comparison*, Technical Assistance Series 6, (Sacramento, 2001), 1.

<sup>40</sup> *California Register and National Register: A Comparison*.

<sup>41</sup> *Ibid.*, 2.

<sup>42</sup> All State Historical Landmarks from number 770 onward are also automatically listed on the California Register. California Office of Historic Preservation, *California Register of Historical Resources: The Listing Process*, Technical Assistance Series 5 (Sacramento, n.d.), 1.

<sup>43</sup> United States Department of the Interior, *How to Apply the National Register Criteria for Evaluation*, National Register Bulletin, No. 15 (Washington, D.C., 1997), 3.

<sup>44</sup> *How to Apply the National Register Criteria for Evaluation*, 44.



Association is the direct link between an important historic event or person and a historic property.<sup>45</sup>

Since integrity is based on a property's significance within a specific historic context, an evaluation of a property's integrity can only occur after historic significance has been established.<sup>46</sup>

#### City of Petaluma Criteria<sup>47</sup>

According to the City of Petaluma's Zoning Ordinance (Chapter 15 – Preservation of the Cultural and Historic Environment), a local landmark is defined as "buildings or sites listed on the State Office of Historic Preservation's directory of historic properties (i.e., Historic Properties Data Inventory), or designated by the City as a local landmark." The City Council may designate:

1. One or more individual structures or other features, or integrated groups of structures and features on one or more lots or sites, having a special character or special historical, architectural, or aesthetic interest or value, as landmarks, and shall designate a landmark site for each landmark.
2. One or more areas containing a number of structures having special character or special historical architectural or aesthetic interesting value, and constituting distinct sections of the City, as historic districts.

Each designation should include a description of the characteristics of the landmark or historic district which justify its designation and specify the location and boundaries of the landmark site or historic district.

### SIGNIFICANCE EVALUATION

#### California Register of Historical Resources

##### *Criterion 1 - Event*

The Hopper Street Corporation Yard features the former wastewater treatment plant structures, the corporation yard, and the animal shelter. The former wastewater treatment plant on Hopper Street was constructed as part of a larger Petaluma sewer system project in the late 1930s. It was partially financed by the PWA and was among the major federally funded projects in Petaluma together with the post office and the fire station. The property was expanded twice towards the east in 1954 and 1967, as the capacity did not meet the growing population of Petaluma. The corporation yard and the animal shelter moved to the site in the 1950s, turning the property into a complex for municipal services.

The two remaining buildings from the 1930-era wastewater treatment plant (the primary and secondary digesters) at the subject property appear eligible for listing in the CRHR under Criterion 1 at the local level as an example of a significant PWA funded municipal infrastructure project in Petaluma.

##### *Criterion 2 - Person*

No persons of known historical significance appear to have been directly associated with the subject property or any of its buildings or structures. Therefore, the property does not appear eligible for listing under Criterion 2.

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<sup>45</sup> Ibid., 44-45.

<sup>46</sup> Ibid., 45.

<sup>47</sup> Summarized from City of Petaluma, Zoning Ordinance, Chapter 15 - Preservation of the Cultural and Historic Environment, 15.040.A and B.

### *Criterion 3 - Design*

Developed from 1937 to the 2000s, the Hopper Street Corporation Yard exhibits characteristics of various construction methods and architectural styles. Constructed ca. 1915, Parks Department Manager Building A was originally built as a single-family house and moved to the site in 1953. It features characteristics of the Craftsman architectural style but only in a rudimentary way and is not a notable example. The secondary digester of the original wastewater treatment plant was designed in the Streamline Moderne architectural style which was used for many buildings constructed by the PWA. It is a good example of the style with its horizontal massing, smooth wall surfaces, rounded corners, ribbon windows, and speed lines. The 1967 additions to the plant exemplify some identifying features of the Modern architectural style; however, they are not notable examples of the style. The remaining structures, including the tanks, the corporation yard buildings, various storage buildings and sheds are utilitarian and lack an architectural style.

Harry N. Jenks was the consulting engineer for the construction and the first expansion of the plant. Although he can be considered a master engineer since he worked on numerous large infrastructure projects throughout the Bay Area and California, the wastewater treatment plant in Petaluma does not rank as an innovative or significant example within his body of work in the context of municipal water system engineering.

The contractor for the 1930s structures of the wastewater treatment plant was Fred J. Early, Jr. Company whose projects include the Richmond – San Rafael Bridge, Folsom Dam, the Montgomery Street BART station in San Francisco, and the San Francisco Wastewater Treatment Plant. The Petaluma plant is not a representative example of the firm's larger body of work.

M. Carleton Yoder was the consulting engineer and C. Norman Peterson Co. was the contractor for the 1960s expansion of the plant. Although both worked on several wastewater treatment plants in Northern California, neither can be considered master.

Overall, only the secondary digester appears eligible for listing in the CRHR at the local level under Criterion 3 as a good example of Streamline Moderne municipal architecture from the 1930s.

### *Criterion 4 - Information*

Archival research provided no indication that the subject property has the potential to yield information important to the prehistory or history of the local area, California, or the nation. The subject property does not appear eligible for listing under Criterion 4.

### *Significance Summary*

The primary and secondary digesters appear eligible for inclusion in the CRHR under Criterion 1 at the local level for their association with a significant PWA funded municipal infrastructure project in Petaluma, and the secondary digester also appears eligible for inclusion in the CRHR under Criterion 3 at the local level as a good example of Streamline Moderne municipal architecture from the 1930s. Under Criterion 1, the period of significance would be from 1938 to 1954, from the year of construction to the year of the first plant expansion, and under Criterion 3 the period of significance would be 1938, the year of construction.

### *Integrity*

After the historic significance has been established, a property's integrity must also be assessed. Since the primary and secondary digesters were found eligible for listing, the integrity of the property as a whole and the two eligible structures is assessed below.



- All of the extant buildings and structures at the Hopper Street Corporation Yard, with the exception of the Parks Department Manager Building A, remain at their original site and retain integrity of **location**. The Craftsman bungalow (Parks Department Manager Building A) was moved from a residential street in downtown Petaluma to the wastewater treatment plant in 1953, therefore the building no longer retains its integrity of location.
- The original **design** of the PWA wastewater treatment plant has been significantly altered over time with additions, alterations, and demolitions. The site was expanded towards the east in the 1950s and the 1960s, and most portions of the original plant were demolished post-2009. The remaining Streamline Moderne secondary digester retains some of its original design elements, but has lost a large feature on the north end, the entry door has been replaced and a significant amount of external equipment has been added. Overall, the plant as a whole and the secondary digester, individually, do not retain their integrity of design.
- While the site is still generally framed by the railroad to the north and the Petaluma River to the south, the overall **setting** has changed significantly since the time of the original construction in 1938. The area was initially at the outskirts of downtown Petaluma with primarily agricultural uses to the north and east. After the construction of Highway 101 in the late 1950s, the city grew towards the east and the area immediately north of the property became mostly light industrial. Within the property boundaries the setting has also changed with numerous new buildings constructed throughout the decades and recent demolitions of many existing structures. The property's integrity of setting has been significantly compromised.
- Most of the structures retain integrity of **materials** despite minor alterations such as door and window replacements.
- The **workmanship** of the earliest structures is still evident as the expression of the period's technology. The board-formed concrete of the secondary digester illustrates the building's integrity of workmanship.
- The additions and alterations have greatly altered the **feeling** of the overall property. While, the two digesters still express the 1930-era municipal architecture, the majority of the initial wastewater treatment plant no longer remains. Because the property no longer maintains its expression of its period of significance as a whole, it does not retain the integrity of feeling.
- The property was originally developed as a wastewater treatment plant, and the corporation yard functions were added in the early 1950s. Even though it still maintains its association with the City of Petaluma and municipal uses, the integrity of **association** has been significantly diminished since the wastewater treatment plant was abandoned in 2009.

Overall, the corporation yard as a whole and the two identified eligible structures do not retain sufficient integrity to communicate their historical significance. Therefore, the subject property and its individual components appear ineligible for the CRHR due to their lack of integrity.

#### City of Petaluma Local Landmark

While the two remaining structures from the 1930-era wastewater treatment plant maintain some historical and architectural value for their ties to the PWA and the Streamline Moderne style, both the site as a whole and the individual structures no longer are able to communicate their significance due to loss of integrity as described above. Therefore, the subject property and its components do not appear eligible for listing as local landmarks.

## CONCLUSION

After a physical evaluation of the Hopper Street Corporation Yard and an examination of related archival material, it appears that the subject property and its components are not eligible for listing on either the state register or as local landmarks due to their lack of integrity. The primary and secondary digesters of the 1930s wastewater treatment plant appear eligible for inclusion in the CRHR under Criterion 1 at the local level for their association with a significant PWA funded municipal infrastructure project in Petaluma, and the secondary digester also appears eligible for inclusion in the CRHR under Criterion 3 at the local level as a good example of the 1930s Streamline Moderne municipal architecture. However, the corporation yard as a whole and the two identified eligible structures do not appear to retain sufficient integrity to communicate their historical significance.

The property and its components were also evaluated under City of Petaluma criteria. While the primary and secondary digesters of the 1930-era wastewater treatment plant maintain some historical and architectural value, both the site as a whole and the individual structures no longer are able to communicate their historical significance due to loss of integrity.



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# DEMOLITION REGULATION 11, Rule 2

## Notification Form

For Office Use Only

J# \_\_\_\_\_  
I# \_\_\_\_\_

### Site of Demolition

Site Address: 500 Hopper St Cross Street: Caulfield Ln  
City: Petaluma Zip: 94952  
Owner/Operator City of Petaluma (atnJosh Minshall) Phone (707) 231-0846  
Specific Location of Project within Building/Address: West Central Tank Demo & SE Interior  
Check One: ☐ Single Family Dwelling ☐ Commercial ☐ Multifamily Dwelling ☒ Govt Bldg ☐ School

### Contractor/Individual Performing Demolition

Name: Company/Individual TBD Contact: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ Zip: \_\_\_\_\_ Phone: ( ) \_\_\_\_\_  
Have you previously submitted notifications for other sites? ☐ Yes ☐ No

### Description of Demolition

Is this Demolition by Fire for Fire Training purposes? ☐ yes ☒ No  
Is this Demolition ordered by a Government Agency? ☐ yes ☒ No  
(Emergency only – attach copy of order)  
If not Demolition for Fire Training, check applicable method:  
☒ Heavy Equipment ☐ Implosion ☒ By Hand ☐ Other \_\_\_\_\_  
Dates of Demolition: (Actual dates must be entered, "ASAP" or "SOON" will be rejected.)  
Start: TBD Completion: \_\_\_\_\_ ☐ Weekend Work? ☐ Night Work (After 5 PM)?

### Asbestos Survey Report

Name of company that conducted survey: DB Gaya Consulting LLC  
Address: 2926 Thorn Rd.  
City: Sebastopol Zip: 96472 Phone: (707) 280-2240  
Name of person who completed the survey: Dana Gaya CAC/SST #: NACE 9246  
Is /was asbestos present? ☒ Yes ☐ No  
If yes, who will remove/has removed prior to demo? \_\_\_\_\_

### Form Preparation Information

This form prepared by: To be completed by contractor Title: \_\_\_\_\_  
Name: Company/Individual \_\_\_\_\_ Phone: ( ) \_\_\_\_\_  
Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_



## Required Information

**Payment must be received before J# will be assigned.** See Schedule L of Regulation 3 for appropriate fees.

**Payment type:** ☐ Check ☐ Cashier's Check ☐ Money Order ☐ Credit/ Debit Card\* (American Express, Discover, Visa, MasterCard or Debit Card) **(payments, other than credit card payment, must be mailed or delivered to: 939 Ellis St., San Francisco, CA 94109)**

*I certify that the above information is correct and that I will comply with all of the requirements of the BAAQMD's regulations, as well as all other applicable federal, state and local requirements.*

**Signature of Contractor or Person Performing Demolition:** \_\_\_\_\_

Form: 1102\_demolition\_061615

## GENERAL INFORMATION

- ♦ This notification form shall be used to notify the BAAQMD of a **demolition** operation only. Notification is required for every demolition. All boxes must be completed. Notifications may be faxed to (415) 749-4658. \*To make credit or debit card payment, go to [www.baaqmd.gov/payments](http://www.baaqmd.gov/payments) to pay on-line. Credit card forms will no longer be accepted. **Job numbers will not be issued until applicable fees are received.**
- ♦ Notification shall be provided to the District at least 10 working days prior to commencement of demolition, or as early as possible prior to commencement of emergency demolition. The notification period will not start until a complete notification is submitted (see above).
- ♦ An Acknowledgement Letter is mailed to the contractor/person listed within 3-5 days of receipt of a complete notification. This should be checked for accuracy of data.
- ♦ If the job is postponed or cancelled, the District **must** be notified of a revision; the Acknowledgement Letter should be used to fax or mail the revision information. When cancelled, a cancellation fee will apply.
- ♦ For specifically-defined "Emergency" conditions, the 10 working day period will be waived. Notification must be made by fax, and the job number will be issued if accompanied with a faxed copy of a valid check, cashier's check or money order.
- ♦ For 4 or fewer unit residences, the 10 working day period may be reduced to 72 hours for an additional fee.

## INSTRUCTIONS

- ♦ **SPECIFIC LOCATION OF PROJECT:** Identify where the demolition is taking place if the site contains more than one building.
- ♦ **START AND COMPLETION DATES:** The start date is the date on which demolition of the facility or structure commences. Any revision to the start or completion dates must be submitted prior to the previously notified date(s). Under no circumstances may the revised start date be earlier than the 10<sup>th</sup> working day following the postmark or fax date of the original notification. If the start date is unknown, enter an estimated start date and revise the notification when the actual start date is known, but not later than the estimated start date.
- ♦ **FIRE TRAINING:** Reg. 11-2-206 includes "intentional burning" in the definition of demolition. Notification is required, the 10 working day requirement must be met and all Asbestos-Containing Material (ACM) >1% must be removed prior to fire training. The District's Open Burning Notification form must also be filed and the applicable requirements of Regulation 5 must be met.
- ♦ **SURVEY REPORT:** Provide information showing that prior to commencement of the demolition, a survey was performed to determine the presence of Regulated ACM (RACM). Indicate if there was/was not suspected ACM.
- ♦ **GOVERNMENT ORDERED DEMOLITION:** If an "Emergency" demolition (see above) is the result of a state or local agency declaring the building a public nuisance or structurally unsound and in danger of imminent collapse, a copy of the written order must accompany this notification.

***FEES APPLICABLE TO DEMOLITION OPERATIONS (FROM REGULATION 3, SCHEDULE L)***

Demolition conducted at a **single family dwelling** is subject to the following fee:

OPERATION FEE: \$88

Cancellation: \$88 (100% of fee) non-refundable, for notification processing.

Demolition conducted at a **single family dwelling or multiple family dwelling with four or fewer units with 72 hours instead of 10 days prior notice (excluding emergencies)** is allowed upon payment of the following **additional fee**:

OPERATION FEE: \$606

Demolition, **other than those conducted at a single family dwelling**, is subject to the following fee:

OPERATION FEE: \$364

Cancellation: \$243 of above amount non-refundable for notification processing.

Demolition conducted for the purpose of **fire training** is exempt from fee.

***SURVEY REQUIREMENTS FOR DEMOLITION OPERATION (FROM REGULATION 11, RULE 2)***

**303.8 Surveys:** Except for ordered demolitions, prior to commencement of any demolition or renovation, the owner or operator shall thoroughly survey the affected structure or portion thereof for the presence of asbestos-containing material, including Category I and Category II nonfriable asbestos-containing material. The survey shall be performed by a person who is certified by the Division of Occupational Safety and Health, and who has taken and passed an EPA-approved Building Inspector course and who conforms to the procedures outlined in the course. The survey shall include sampling and the results of laboratory analysis of the asbestos content of all suspected asbestos-containing materials. This survey shall be made available, upon request by the APCO, prior to the commencement of any RACM removal or any demolition. This subsection shall not apply if the owner or operator asserts that the material to be renovated is RACM and will be handled in accordance with the provisions of Sections 11-2-303, 304 and 401. The requirement for certification by the Division of Occupational Safety and Health shall not apply to in-house health professionals within a specific nonasbestos related company who perform occasional surveys only for that company as part of their regular job responsibilities

8.1 When a structure, or portion thereof, is demolished under an ordered demolition, the survey must be done prior to, during, or after the demolition but prior to loading or removal of any demolition debris. If the debris contains regulated asbestos-containing material, all of the debris shall be treated as asbestos-containing waste material pursuant to Section 11-2-304.

8.2 For renovation or demolition of residential buildings having four or fewer dwelling units, a survey is not required. A sample and test of the material will be required only when any of the following will be removed or disturbed: heating, ventilation, air conditioning ducting and systems; acoustic ceiling material or acoustic plaster; textured or skim coated wall surfaces, cement siding or stucco, or resilient flooring. Where the material is found to contain greater than 1 percent asbestos and is friable, the material must be handled in accordance with Section 11-2-303.

6/2015





## Community Development Department

11 English Street

Petaluma, CA 94952

<http://cityofpetaluma.org>

Building Division

Phone: (707) 778-4301

Questions: (707) 778-4557

To schedule inspections: (707) 778-4479

Email: [edd@cityofpetaluma.org](mailto:edd@cityofpetaluma.org)

### CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING WASTE REDUCTION AND RECYCLING PLAN (WRRP FORM)

The City of Petaluma **requires** that construction/demolition waste generated at the site is either diverted to recycle or salvage at a minimum of 65% for wholly new buildings and 50% for all other projects. All contractors/owner-builder are **required** to complete this checklist prior to obtaining a building or demolition permit. At the conclusion/end of the project, the contractor must report all tons recycled and disposed by material type and file a Construction and Demolition Recycling Report with the City of Petaluma Building Department **prior to final inspection and issuance of the Certificate of Occupancy.**

Date: \_\_\_\_\_ Permit/Project #: \_\_\_\_\_

Jobsite address: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Company: \_\_\_\_\_ Contact Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_ Phone: \_\_\_\_\_

Project Name: \_\_\_\_\_ Project Size: \_\_\_\_\_ sq.ft.

Type of Project: ☐ Construction ☐ Demolition ☐ Roofing ☐ Plumbing ☐ Other: \_\_\_\_\_

Material Type	Recycled/ Reused (in tons or %)	Amount Disposed (in tons or %)	Hauler or Destination (weight receipts & tickets must be attached for final report)	Method of Transport (Self-Haul or site collection, please note if different in final report)
Asphalt				
Dirt/Clean Fill				
Concrete/Grinding				
Brick/Rocks				
Mixed Materials				
Drywall/Sheetrock				
Lumber				
Roofing				
Metals				
Cardboard				
Salvaged Items				
Other:				
Other:				
Other:				
Total Diversion				

Community Development Department · City of Petaluma, California

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

If you have nothing to report, please explain: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Contractor/ Owner-Builder Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Print Name: \_\_\_\_\_

Please call 707-778-4301 or e-mail [cdd@cityofpetaluma.org](mailto:cdd@cityofpetaluma.org) for further assistance.

Office only:

Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Doug Hughes, Chief Building Official



## Conversion Table

To calculate the percentage of materials recycled and/or reused:

To determine the percentage of materials recycled/reused, divide the number of tons which were recycled/reused by the TOTAL tonnage generated by the job.

$$\text{Percent Recycled/Reused} = \frac{\text{recycling + reused tons}}{\text{recycling tons + reused tons + disposed tons}}$$

*Example:*

1-ton recycling + 1-ton reused	2	
1-ton recycling + 1 ton reused + 2 tons disposal	4	0.5 (multiply 0.5 by 100 = 100%)

### Salvaged Materials:

Please estimate the quantity of material recycled/reused. Your estimates should be provided in tons.

*Example:* 25 pounds + 2000 pounds = 0.02 tons

### How to convert pounds to tons:

To convert pounds to tons, divide the number by pounds by 2000 pounds. 1-ton = 2,000 pounds

*Example:* 700 pounds + 2000 pounds = 0.35 tons

### How to convert cubic yards to tons:

Select the type of material recycled/reused from the chart to the right.

Multiply the corresponding number by the total number of cubic yards recycled/reused.

1 cubic yard of asphalt = 0.69 tons

*Example:* 5 cu. yds of asphalt = 5 x 0.69 = 3.45 tons

Material Type	Tons per Cubic Yard
Asphalt	0.69
Brick	1.51
Cardboard	0.05
Concrete	0.93
Dirt/Clean Fill	1.00
Drywall/Sheetrock	0.20
Lumber	0.17
Plastic	0.17
Roofing Materials	.21
Metals	0.45
Mixed Materials	0.25
Green Waste	0.05

**CITY OF PETALUMA**

11 English Street  
Petaluma, CA 94952

Office: (707) 778-4301 Fax: (707) 778-4498

**CONTRACTOR ONLY PERMIT APPLICATION**

Permit # \_\_\_\_\_

BUILDING ADDRESS 900 Hopper St		SUBDIVISION/LOT # CORP Yard		PARCEL # 007-171-008	
OWNER NAME City of Petaluma			(H) PHONE		(W) PHONE
OWNER MAIL ADDRESS 202 N. McDowell Blvd		CITY Petaluma	STATE CA		ZIP 94952
ARCHITECT/DESIGNER NA		LICENSE NO.	CITY BUSINESS LICENSE NO. na		PHONE
MAIL ADDRESS		CITY	STATE		ZIP
ENGINEER Josh Minshall		LICENSE NO. C80830	CITY BUSINESS LICENSE NO. na		PHONE
MAIL ADDRESS 202 N. McDowell Blvd		CITY Petaluma	STATE CA		ZIP 94952
CONTRACTOR TBD		LICENSE NO.	CITY BUSINESS LICENSE NO.		PHONE
MAIL ADDRESS		CITY	STATE		ZIP

E-MAIL ADDRESS: JMinshall@cityofpetaluma.org

- |  |   |
|--|---|
| <input type="checkbox"/> Building              | <input type="checkbox"/> New                |
| <input type="checkbox"/> Mechanical            | <input type="checkbox"/> Alteration         |
| <input type="checkbox"/> Electrical            | <input type="checkbox"/> Accessory Building |
| <input type="checkbox"/> Plumbing              | <input type="checkbox"/> Addition           |
| <input type="checkbox"/> Grading               | <input type="checkbox"/> Repair             |
| <input type="checkbox"/> Sign                  | <input type="checkbox"/> Residential        |
| <input checked="" type="checkbox"/> Demolition | <input type="checkbox"/> Commercial         |
| <input type="checkbox"/> Pool                  | <input type="checkbox"/>                    |
| <input type="checkbox"/> Re-Roof               | <input type="checkbox"/>                    |

BUILDING	CDBLDG	
PLAN CHK	CDPLANCK	
ENG PLN CK	CDENGPCCK	
FIRE PLN CK	CDFIREPC	
GP IMPLEMENTATION	CDGIMFEE	
CSIF/CSIFO	CDCONSV	
ENERGY	CDENER	
ELECTRICAL	CDELEC	
MECHANICAL	CDBLDG	
PLUMBING	CDPLUMB	
MICROFILM	CDRECMGT	
CONVENIENCE FEE	CDVISAMC	
RED TAG	CDRTAG	
ZONING FEE	CDFLATFE	
CA BLDG STAND.	CDCBSC	
PLANNING FEE	CDBLZNCK	

BUILDING FLOOR AREA (Sq. ft.)	<u>REMODEL</u> FLOOR AREA (Sq. ft.)	VALUATION	
GARAGE AREA (Sq. ft.)	<u>REMODEL</u> GARAGE AREA (Sq. ft.)	OCCUPANCY LOAD	STORIES
DECK AREA (Sq. ft.)	<u>REMODEL</u> DECK AREA (Sq. ft.)	OCCUPANCY CLASSIFICATION	CONSTRUCTION TYPE
BEDROOMS		CBC <b>2019</b>	

**PROPOSED WORK:** Demolish Primary and Secondary Digesters, Chlorination Building  
and option Plant Effluent Control Box. Selective interior Demo of Lab



TO BE COMPLETED BY CONTRACTOR ONCE SELECTED

**CONSTRUCTION LENDING AGENCY.** I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civ. C)

**LENDER**

**NAME** \_\_\_\_\_

**MAILING ADDRESS** \_\_\_\_\_

**CITY** \_\_\_\_\_

**STATE** \_\_\_\_\_

**ZIP** \_\_\_\_\_

I hereby affirm under penalty of perjury that I am licensed under the provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

**LICENSE  
CLASS**

**STATE LICENSE  
NUMBER**

**EXPIRE  
DATE**

Per section 6.01.020 of the Petaluma Municipal Code, no person (as defined in section 6.01.010, Letter I) shall engage in business in the city without first applying for and receiving an annual business tax certificate from the city and paying to the city tax collector a business tax described in Chapter 6 of the Petaluma Municipal Code.

**City Business  
License**

**Expiration  
Date**

**Hazardous Materials:** Indicate if the intended occupancy will use chemicals. Initialing YES acknowledges that H & S Code Sections 25505, 25533 & 25534 as well as filing directions were made available to you.

**YES** \_\_\_\_\_ **NO** \_\_\_\_\_

**WORKERS' COMPENSATION DECLARATION**

I hereby affirm under penalty of perjury one of the following declarations:

\_\_\_\_\_ I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

\_\_\_\_\_ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

**Carrier:** \_\_\_\_\_

**Policy Number:** \_\_\_\_\_ **Exp:** \_\_\_\_\_

(\*This section need not be completed if the permit is for one hundred dollars (\$100) or less.)

\_\_\_\_\_ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

**WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR COE, INTEREST AND ATTORNEY'S FEES.**

I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building, construction, and hereby authorize representatives of this agency to enter upon the above-mentioned property for inspection purposes. I (we) further agree to save, indemnify and keep harmless the City of Petaluma against liabilities, judgments, costs and expenses which may in any way accrue against said city in consequence of the granting of this permit and will pay all expenses including attorney's fees in connection therewith. All work performed by virtue of this permit must conform to plans and specifications and application filed by the owner or his authorized agent with the Building Inspection Division. This permit does not constitute approval of any violation of the above recited provisions, nor of any state or city ordinance.

**Signature** **X** \_\_\_\_\_

**Print Name** **X** \_\_\_\_\_ **Date** \_\_\_\_\_