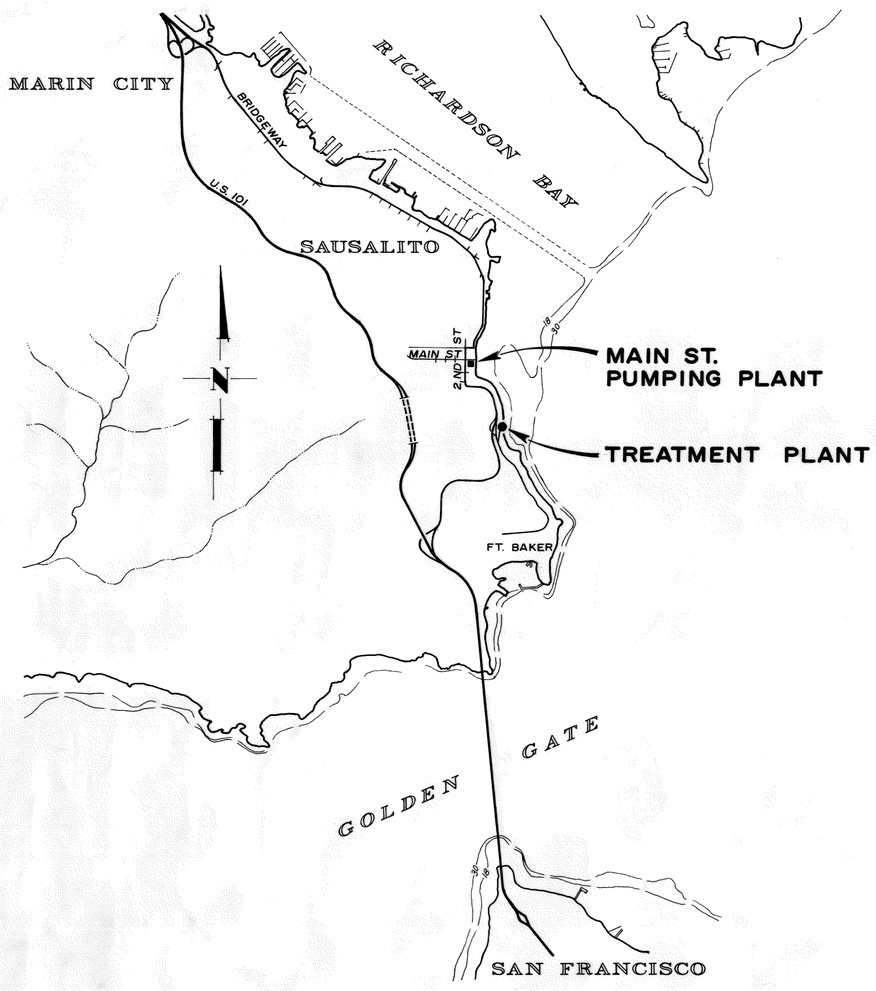


SAUSALITO - MARIN CITY SANITARY DISTRICT

MARIN COUNTY, CALIFORNIA

PLANS

FOR THE CONSTRUCTION OF

INITIAL IMPROVEMENTS TO

WASTEWATER TREATMENT AND DISPOSAL FACILITIES

OFFICE OF THE DISTRICT SECRETARY
P.O. BOX 461
SAUSALITO, CALIFORNIA 94965

JENKS & ADAMSON
CONSULTING SANITARY & CIVIL ENGINEERS

1972

SUBMITTED BY John H. Jenks
CONSULTING SANIT. ENGNR. R.E. NO. 8120

PROJECT LOCATION MAP

0 1000 2000 3000 4000 6000 8000

SCALE IN FEET

DATUM

ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE U.S. COAST AND GEODETIC SURVEY MEAN SEA LEVEL OF 1929. TREATMENT PLANT AND MAIN STREET PUMPING PLANT SITE REFERENCE ELEVATIONS SHALL BE AS SHOWN ON THESE PLANS.

INDEX TO PLANS

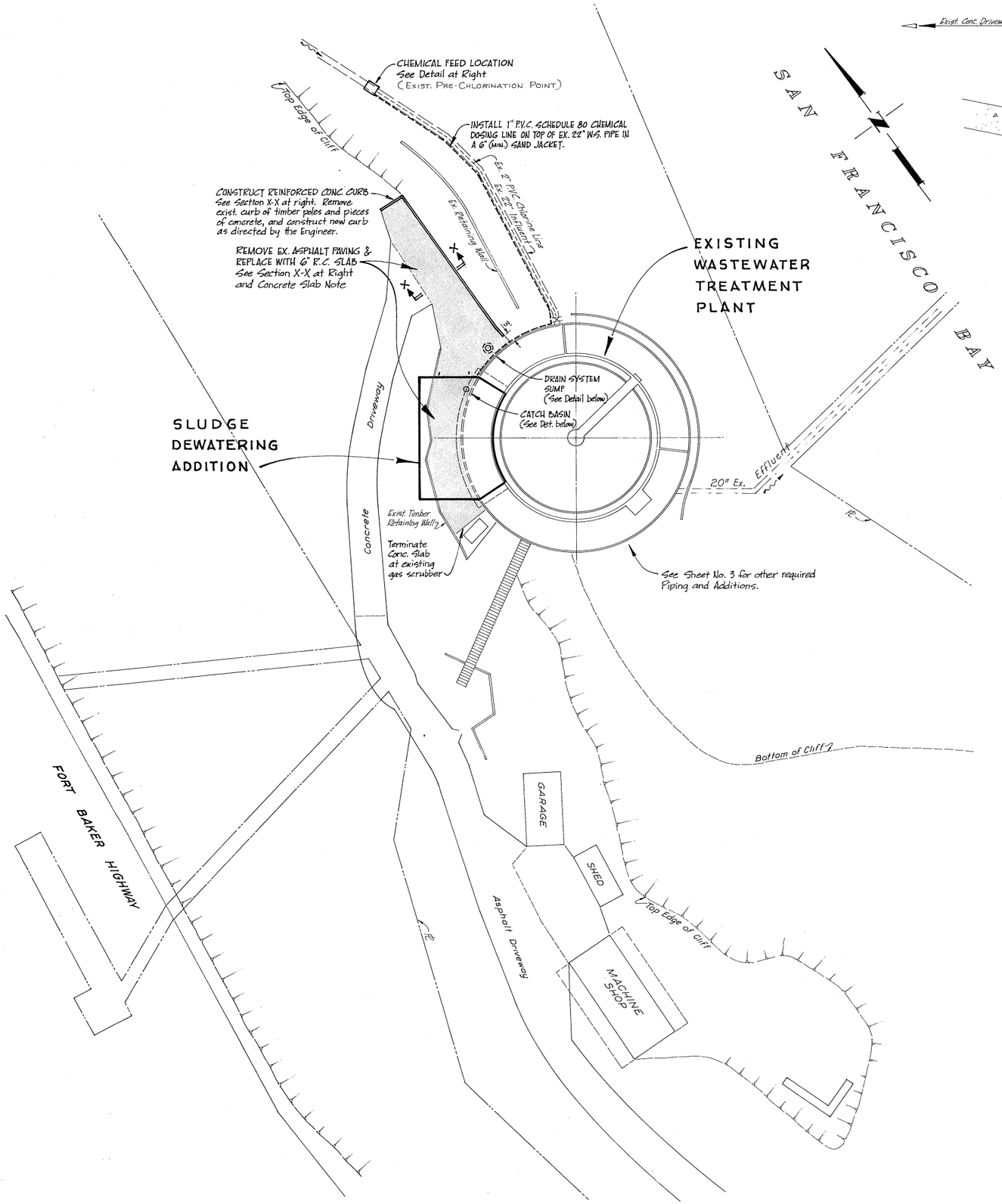
SH. NO.	TITLE
1. –	PROJECT LOCATION MAP & INDEX TO PLANS
2. –	SITE PLAN
3. –	PIPEWORK & EQUIPMENT - PLAN
4. –	" " " - SECTIONS & DETAILS
5. –	" " " - MISC. DETAILS & DIAGRAM
6. –	STRUCTURAL - PLANS
7. –	" - ROOF PLAN & ELEVATIONS
8. –	" - SECTIONS
9. –	" - DETAILS
10. –	ELECTRICAL - PLANS
11. –	" - DETAILS & DIAGRAMS
12. –	MAIN STREET PUMPING PLANT ADDITIONS - SITE PLAN & MISC. DETAILS
13. –	" " " " " - PLAN, SECTIONS & DETAILS

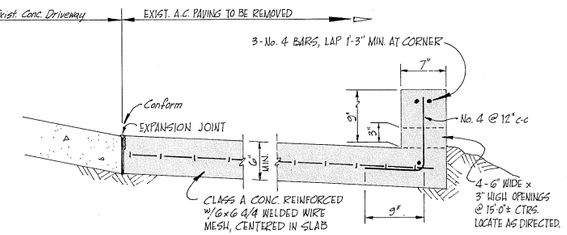
SAUSALITO - MARIN CITY SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA

PROJECT LOCATION MAP & INDEX TO PLANS

JENKS & ADAMSON
CONSULTING SANITARY & CIVIL ENGINEERS

Drawn by:	S.L.H.	Scale:	AS NOTED
Des/Chkd by:	J.H.J.	Date:	APRIL 1972



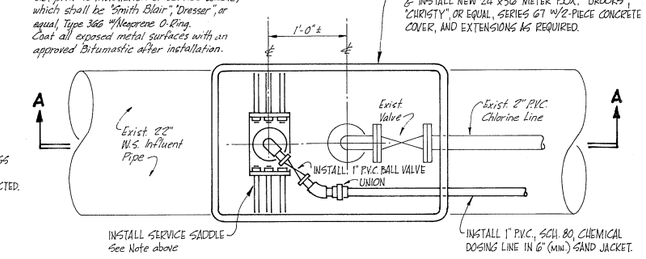


SECTION X-X

SCALE: 1" = 1'-0"

NOTE

Contractor shall verify exist. Influent Pipe O.D. prior to installation of Service Saddle, which shall be "Smith Blair", "Dresser", or equal, Type 366 w/Neoprene O-Ring. Coat all exposed metal surfaces with an approved Bituminous after installation.



PLAN

CONCRETE SLAB NOTE

Contractor shall remove the existing A.C. Paving & Base as required to install the 6" min. Concrete Slab.

Final Grades of the Conc. Slab shall be the same as exist. Paving, except as otherwise noted, to provide proper drainage. (See Sections C-C & D-D, Sheet No. 4, and Sectional Plan, Sheet No. 6, for drainage at area under Sludge Dewatering Structure.)

Existing native base material found to be unsuitable after excavation for the Concrete Slab shall be removed and replaced with Gravel, as directed by the Engineer.

Expansion Joints shall be placed at 10' to 15' spacing as directed by the Engineer. (See Exp. Jt. Note below.)

Final Surface Finish of Slab at the main drive area shall be similar to the exist. Conc. Driveway to provide a good non-skid driving surface. The area under the Sludge Dewatering Structure shall have a smoother finish to allow ease of wash-down under the Filter Discharge Chute; all as directed by the Engineer.

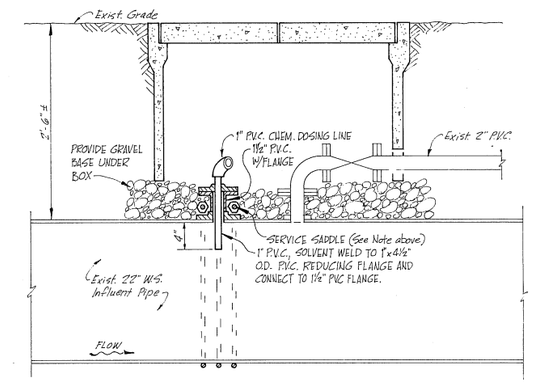
Refer to Specs. for Concrete requirements.

EXPANSION JOINT NOTE

The Expansion Joints shall be formed using a PVC joint former 3/8" wide by 2" deep with ribbed preformations on both sides and an attached 3/8"x3/8" removable cap. All joints shall be placed with one continuous length of the PVC former, which shall be glued to the side of cured concrete slabs prior to the pouring of the new slab (where applicable). Placing of the joint former shall be in accordance with manufacturers recommendations. Concrete at the expansion joints shall have a tooled edger finish.

CATCH BASIN NOTE

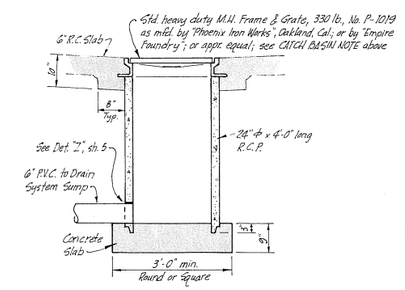
The Contractor shall slope a strip of the Conc. Slab, approximately 2'-6" wide, on three sides of the Catch Basin to drain to the C.B. grate. The slope shall conform to the surrounding surfaces at the junctions, and be gentle (max. 1:8) to minimize hazard to autos and pedestrians. The final grate elevations and sloped surfaces shall be as directed by the Engineer.



SECTION A-A

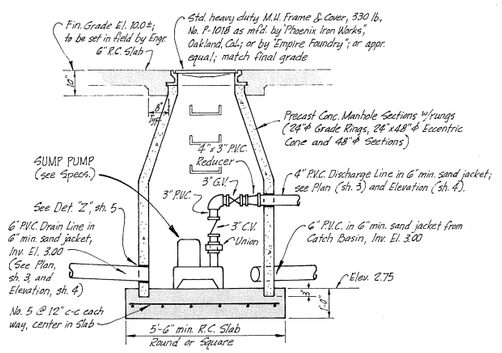
CHEMICAL FEED LOCATION DETAIL

SCALE: 1" = 1'-0"



CATCH BASIN DETAIL

SCALE: ½" = 1'-0"



DRAIN SYSTEM SUMP DETAIL

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

HALF SCALE

2 OF 13

SAUSALITO-MARIN CITY SANITARY DISTRICT MARIN COUNTY, CALIFORNIA	
WASTEWATER TREATMENT AND DISPOSAL FACILITIES	
SITE PLAN	
JENKS & ADAMSON CONSULTING SANITARY & CIVIL ENGINEERS	
Drawn by: S.L.H.-C.V.B.	Scale: 1" = 20', EX. AS NOTED
Des/Chkd by: D.A.B.-J.H.J	Date: APRIL 1972

EQUIPMENT NOTE

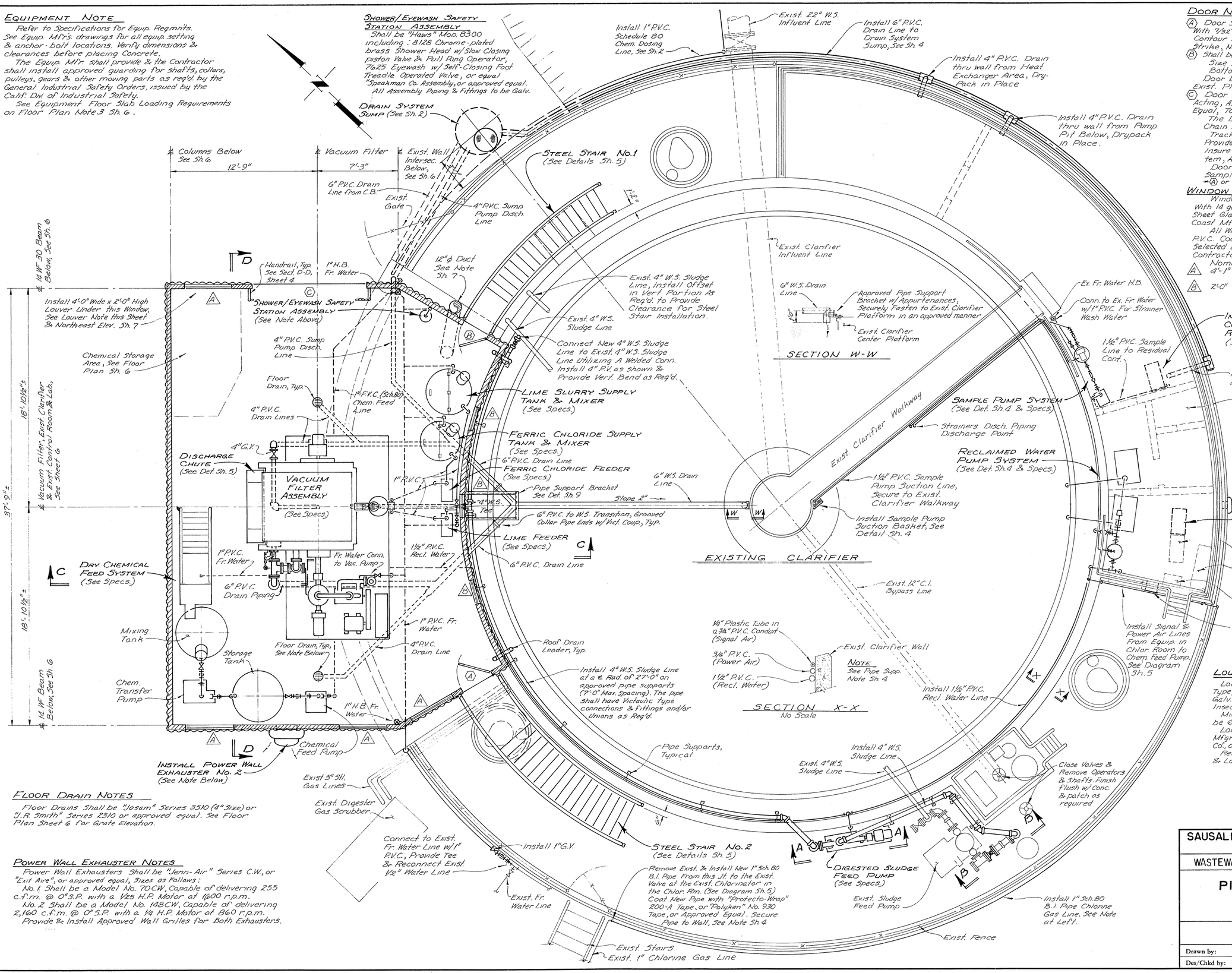
Refer to Specifications for Equip. Reqmnts. See Equip. Mfr's. drawings for all equip. setting & anchor-bolt locations. Verify dimensions & clearances before placing Concrete.

The Equip. Mfr. shall provide & the Contractor shall install approved guarding for shafts, collars, pulleys, gears & other moving parts as req'd. by the General Industrial Safety Orders, issued by the Calif. Div. of Industrial Safety.

See Equipment Floor Slab Loading Requirements on Floor Plan Note 3 Sh. 6.

SHOWER/EYEWASH SAFETY STATION ASSEMBLY

Shall be "Haws" Mod. 8300 including: 8128 Chrome-plated brass Shower Head w/ Slow Closing piston Valve & Pull Ring Operator, 7625 Eyewash w/ Self-Closing Foot Treadle Operated Valve, or equal "Speakman Co. Assembly, or approved equal. All Assembly Piping & Fittings to be Galv.



DOOR NOTES - See Door Details Sh. 9

(A) Door Shall be "Ceco"* 3'-0" x 7'-0" Imperial 3070 Upper Half With 7/32" Heavy Sheet Glass & No. 440 Lock, Hung in Std. Contour 5¾" Deep Metal Frame, Reinforced Hinge & Strike, No. 2112 Hinges, No. 4061 Bumper & Hold Open.

(B) Shall be the Same as "A" Except as Follows:
Size Shall be 2'-6"
Bottom Half Shall Have 4G34-2021 Screened Louver.
Door Lock Cylinders Shall be Master Keyed to the Exist. Plant Locks.

(C) Door Shall be Industrial Fiberglass, Sectional, Upward Acting, As Mfgrd. by "Overhead Door Corp." or Approved Equal, To Fit a 10' Wide by 8' High Opening.
The Door Shall be Provided With a No. 3 Type "B" Chain Hoist Operator.
Tracks, Guides, Hangers & All Other Accessories Shall be Provided & Installed As Req'd. By the Door Mfgr. to Insure a Substantial & Smooth Operating Door System, All to the Satisfaction of the Engineer.
Door Color Shall Selected by the Engineer from Samples Submitted By the Contractor.

* (A) or "Fenestra", or equal * (B) or "Crawford Door", or equal.

WINDOW NOTES - See Window Details Sh. 9

Windows Shall be "Coast" 1½" Heavy Intermediate Steel With 14 ga. Steel Frame And with Fixed 7/32" Heavy Sheet Glass & Vinyl Glazing, As Mfgrd. by "Coast to Coast Mfgrg. Co.", or "Ceco Corp." or Approved Equal.

All Window Frames Shall be Coated with "Coast-Clad" P.V.C. Coating, Minimum thickness 6 Mils. Color Shall be Selected by the Engineer from Samples Submitted by the Contractor.

Nominal Window Size Shall be As Follows:

(A) 4'-1" Wide x 4'-1" High

(B) 2'-0" Wide x 4'-1" High

LOUVER NOTES

Louvers Shall Be Stationary "Z-Blade" Type, Fabricated From 20 Gage (Min.) Galv. Stl. with 4" Deep Flanged Frame & Insect Screen on the Interior.

Minimum Louver Efficiency Shall be 60% Free Area.

Louvers Shall be Model L-3 as Mfgrd. by "Western Engnrg. & Mfgrg. Co.", or "Airolite", or Approved Equal.

Refer to Plan this Sheet For Sizes & Locations.

FLOOR DRAIN NOTES

Floor Drains Shall be "Josam" Series 3510 (4" Size) or "J.R. Smith" Series 2310 or approved equal). See Floor Plan Sheet 6 for Grate Elevation.

POWER WALL EXHAUSTER NOTES

Power Wall Exhausters Shall be "Jenn-Air" Series C.W., or "Exit Aire", or approved equal, Sizes as Follows:

No. 1 Shall be a Model No. 70CW, Capable of delivering 255 c.f.m. @ 0" S.P. with a 1/25 H.P. Motor at 1600 r.p.m.

No. 2 Shall be a Model No. 148CW, Capable of delivering 2,160 c.f.m. @ 0" S.P. with a ¼ H.P. Motor at 840 r.p.m.

Provide & Install Approved Wall Grilles for Both Exhausters.

HALF SCALE

3 OF 13

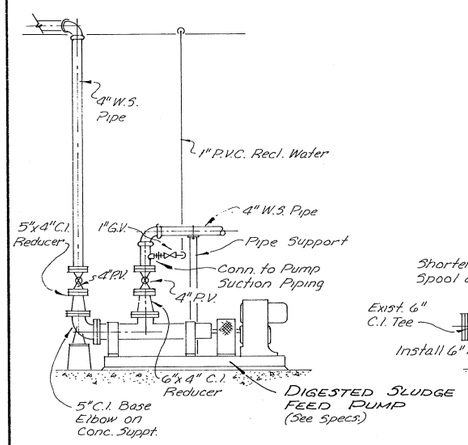
SAUSALITO - MARIN CITY SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA

WASTEWATER TREATMENT AND DISPOSAL FACILITIES

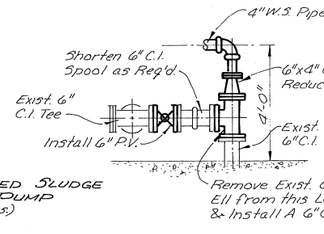
PIPEWORK & EQUIPMENT PLAN

JENKS & ADAMSON
CONSULTING SANITARY & CIVIL ENGINEERS

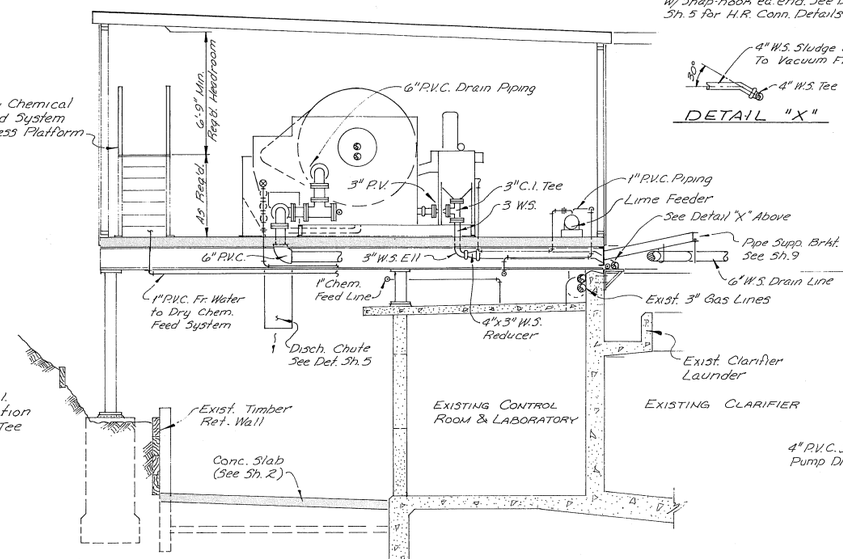
Drawn by:	J.A.C.	Scale:	1/4" = 1'-0"
Des/Chkd by:	J.A.C. - D.A.B.	Date:	APRIL 1972



SECTION A-A



SECTION B-B



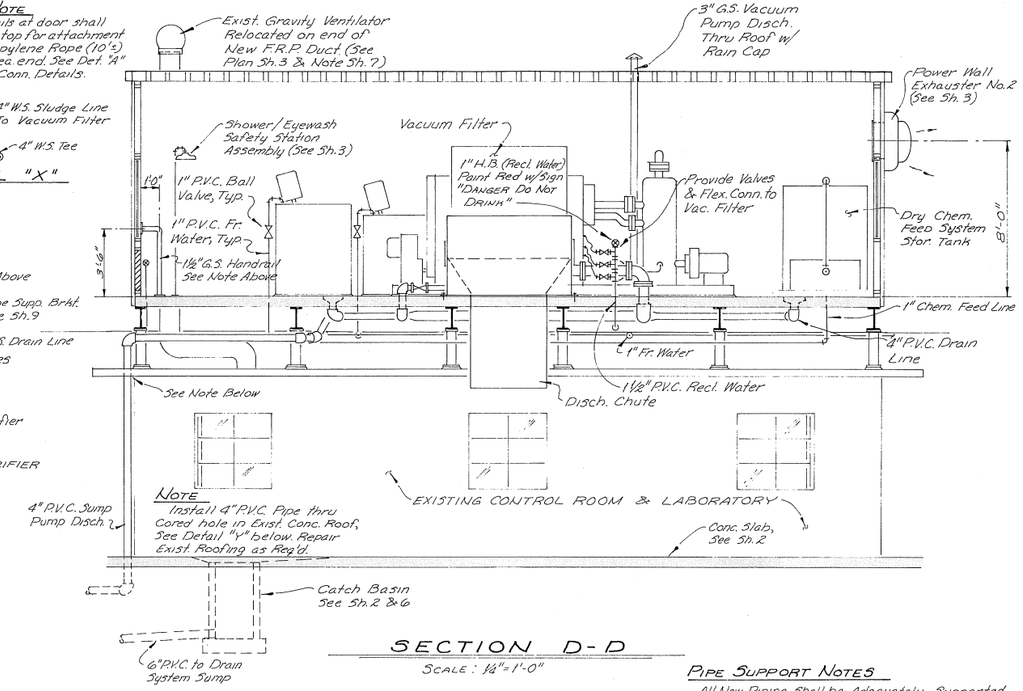
SECTION C-C

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

HANDRAIL NOTE

1½" G.S. Handrails at door shall have an eye at top for attachment of 1/8" Polypropylene Rope (10'±) w/ Snap-hook ea. end. See Det. "A" Sh. 3 for H.R. Conn. Details.

DETAIL "X"



NOTE

Install 4" P.V.C. Pipe thru Cored hole in Exist. Conc. Roof, See Detail "Y" below. Repair Exist. Roofing as Req'd.

SECTION D-D

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

PIPE SUPPORT NOTES

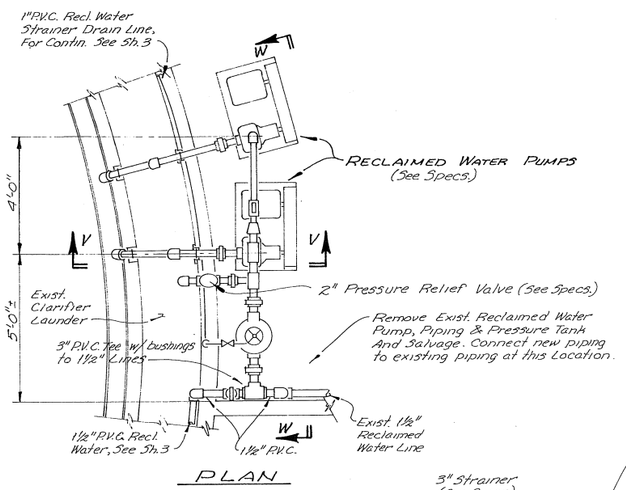
All New Piping Shall be Adequately Supported in a Neat & Substantial Manner, All to the Satisfaction of the Engineer.

All P.V.C. Piping Shall be Supported at each Direction Change & at 3'-0" c.c Max. Spacing.

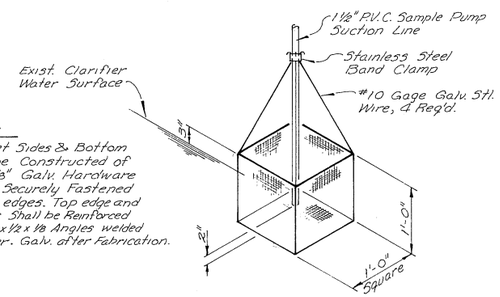
Brackets, Supports, Hangers & all Appurtenances Shall be as Mfg'd. by "Grinnell" "Elcen", "Unistrut" or Approved Equal.

All Threaded Fasteners Shall be Galvanized.

Refer to Specs. for Additional Data.



PLAN

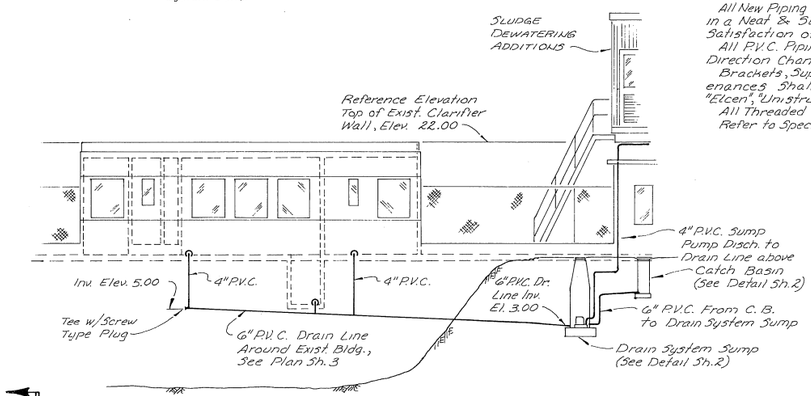


NOTE

Basket Sides & Bottom Shall be Constructed of 1/8" x 1/8" Galv. Hardware Cloth, Securely Fastened at all edges. Top edge and corners Shall be Reinforced With 1½ x 1½ x 1/8 Angles welded together. Galv. after Fabrication.

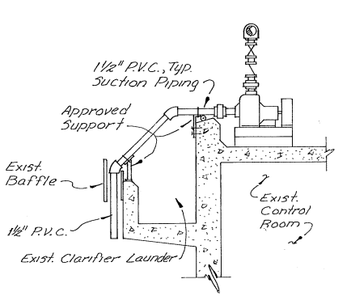
SAMPLE PUMP SUCTION LINE BASKET DETAIL

No SCALE

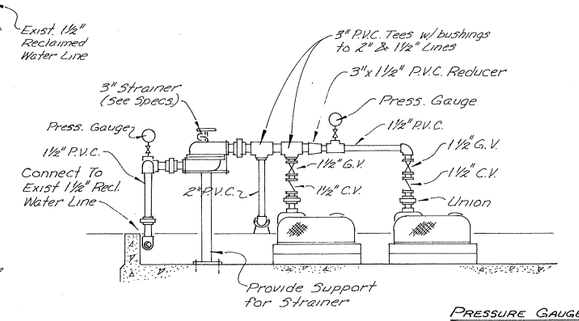


DRAIN LINE ELEVATION

SCALE: HORIZ. 1/16" = 1'-0" - VERT. 1/8" = 1'-0"



SECTION V-V



NOTE

Exist. Handrail on top of Parapet Wall is not shown on this Detail, See Sh. 3

SECTION W-W

PRESSURE GAUGES NOTES

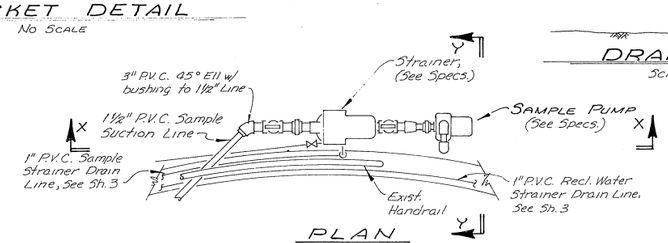
Pressure Gauges Shall be "Ashcroft #* Type 1,000, 3½" Size or Approved Equal. The Gauges Shall Meet the Following Requirements:

Casing —— Steel (Std. Finish)
Crystal —— Glass
Connection —— 1/4" N.P.T. (Lower)
Range —— Sample Pump System 0 to 30 P.S.I.
Recl. Water System 0 to 60 P.S.I.

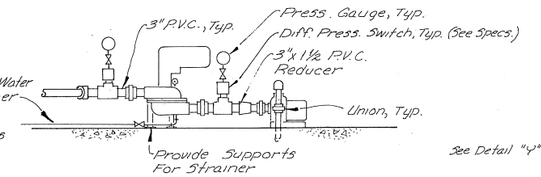
Provide Approved Shut-Off Cocks for Gauges as Indicated.

* or "H.O. Trerice" or Approved Equal.

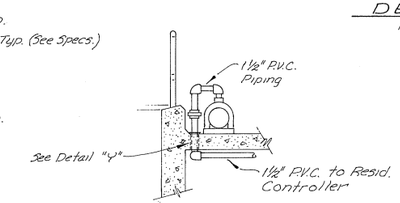
RECLAIMED WATER SYSTEM DETAILS



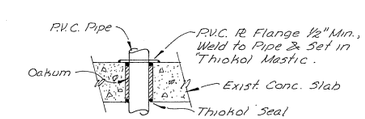
PLAN



SECTION X-X



SECTION Y-Y



DETAIL "Y"

No SCALE

SAMPLE PUMP SYSTEM DETAILS

HALF SCALE

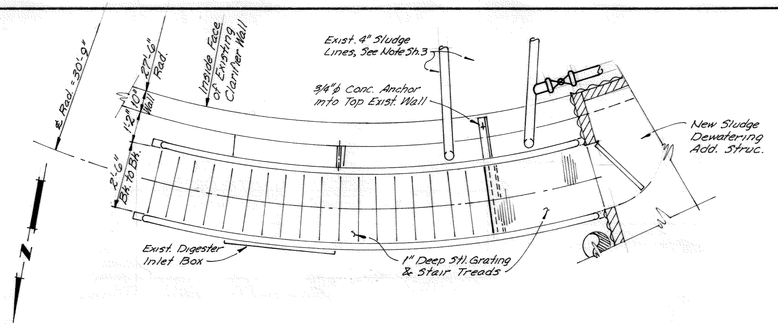
4 OF 13

SAUSALITO-MARIN CITY SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA
WASTEWATER TREATMENT AND DISPOSAL FACILITIES

PIPEWORK & EQUIPMENT SECTIONS & DETAILS

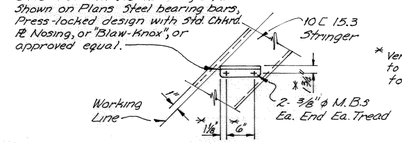
JENKS & ADAMSON
CONSULTING SANITARY & CIVIL ENGINEERS

Drawn by:	J.A.C.	Scale:	3/8" = 1'-0" EXCEPT AS NOTED
Des/Chkd by:	J.A.C.-D.A.B.	Date:	APRIL 1972



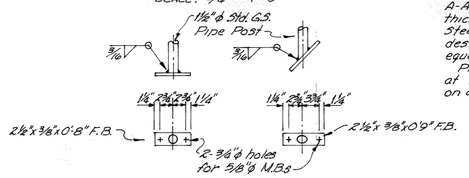
PLAN

TREADS - "Irving X-bar Safstep" 8 1/16" Wide with 3/16" thick by depth Shown on Plans Steel bearing bars, Press-locked design with Std. Chkrd. R Nosing, or "Blaw-Knox", or approved equal.



* Verify these dimensions to Conform to the treads to be Installed.

TYPICAL TREAD DETAIL
SCALE: 3/4" = 1'-0"



DETAIL "A"
SCALE: 3/4" = 1'-0"

DETAIL "B"
SCALE: 3/4" = 1'-0"

GRATING NOTE

Steel Grating Shall be Type A-A "Irving X-bar" with 3/16" thick by depth Shown on Plans Steel bearing bars, Press-locked design, "Blaw Knox" or approved equal.

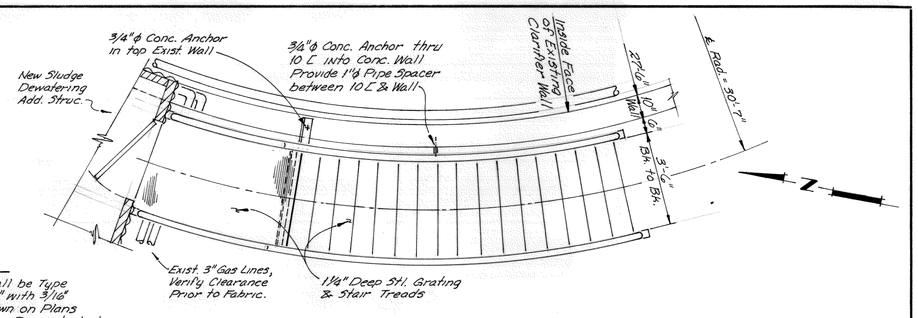
Provide Std. Chkrd. R Nosing at Stair Edge & Std. Banding on all remaining edges.

GENERAL NOTES

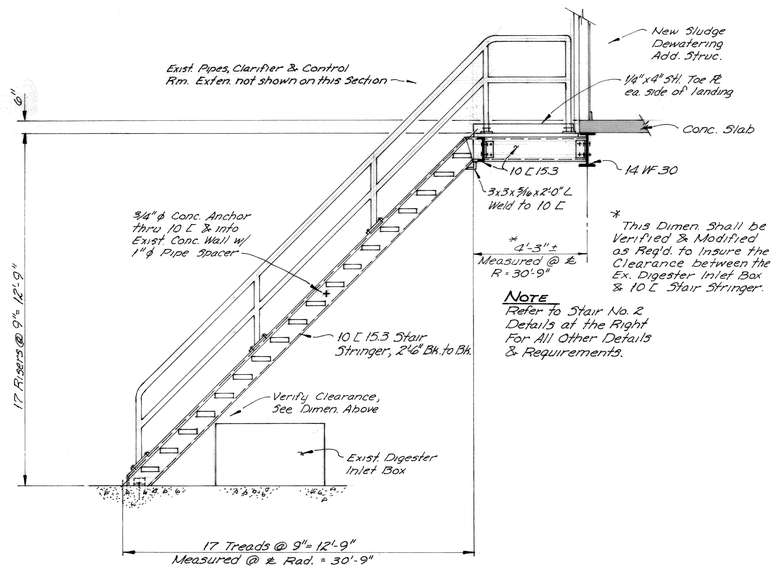
All Dimens. of Exist. Conditions Shall be Verified Prior to Fabrication.

All Parts of Steel Stairs Shall be Galvanized After Fabrication.

Handrail Corners & Bends Shall Have the Largest Radii Practical, Sharp Miters are not acceptable.



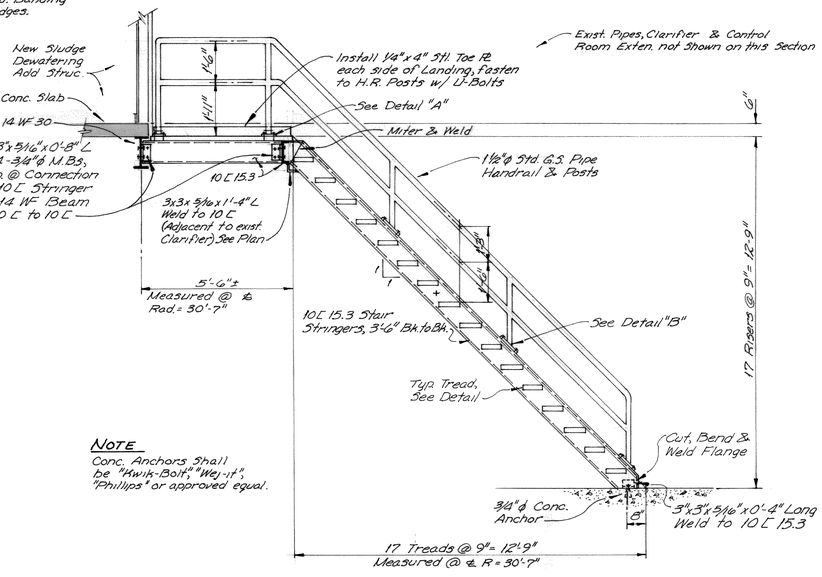
PLAN



* This Dimen. Shall be Verified & Modified as Req'd. to Insure the Clearance between the Ex. Digester Inlet Box & 10 [Stair Stringer.

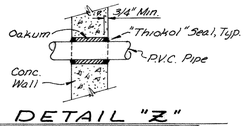
NOTE
Refer to Stair No. 2 Details at the Right For All Other Details & Requirements.

STEEL STAIR No. 1
SCALE: 3/8" = 1'-0"

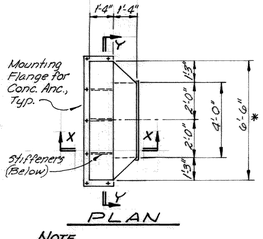


NOTE
Conc. Anchors Shall be "Kwik-Bolt", "Wej-it", "Phillips" or approved equal.

STEEL STAIR No. 2
SCALE: 3/8" = 1'-0"



DETAIL "Z"
No SCALE



FABRICATION NOTES

The Discharge Chute Shall be Fabricated From Either P.V.C. or Polypropylene Sheet Stock.

All Material Shall be 1/4" Min. Thickness.

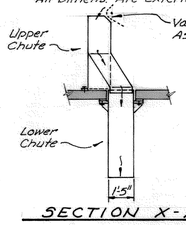
All Joints Shall be made Utilizing a Thermal or Solvent Welding Process.

Joining Shall be as Req'd. To Provide a Structurally Substantial, Neat & Water-Tight Unit.

A Suitable Reinforcing Bead Shall be Incorporated into the Top & Bottom Edges to Provide a Stiff Edge Condition.

Shop Fabrication Details Shall be Submitted For Review Prior to Fabrication.

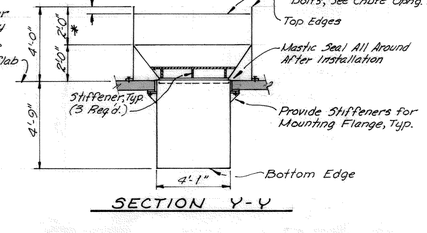
NOTE
All Dimens. Are Exterior



SECTION X-X

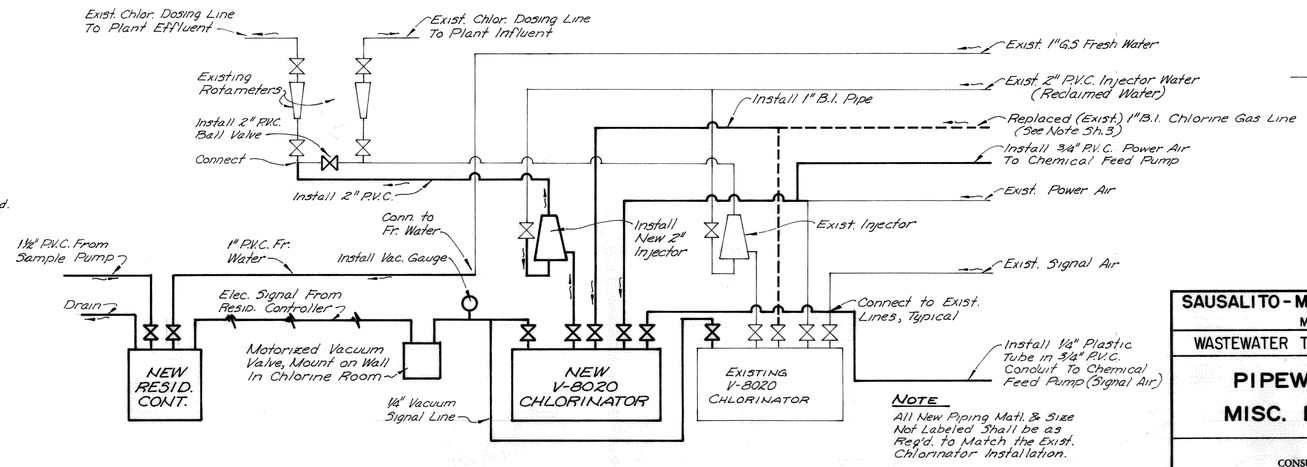
* This Dimen. Shall be Verified For Vacuum Filter Clearance.

NOTE
Upper Chute Shall be fastened to Conc. Slab w/ 7 - 3/8"ϕ Conc. Anchors (Female Type) as Indicated. Lower Chute Shall be fastened to Angle w/ 12 - 3/8"ϕ Studs or Bolts, See Chute Conc. Det. Sh.9.



SECTION Y-Y

DISCHARGE CHUTE DETAILS
SCALE: 1/4" = 1'-0"



NOTE
All New Piping Matl. & Size Not Labeled Shall be as Req'd. To Match the Exist. Chlorinator Installation.

CHLORINATION SYSTEM DIAGRAM
No SCALE

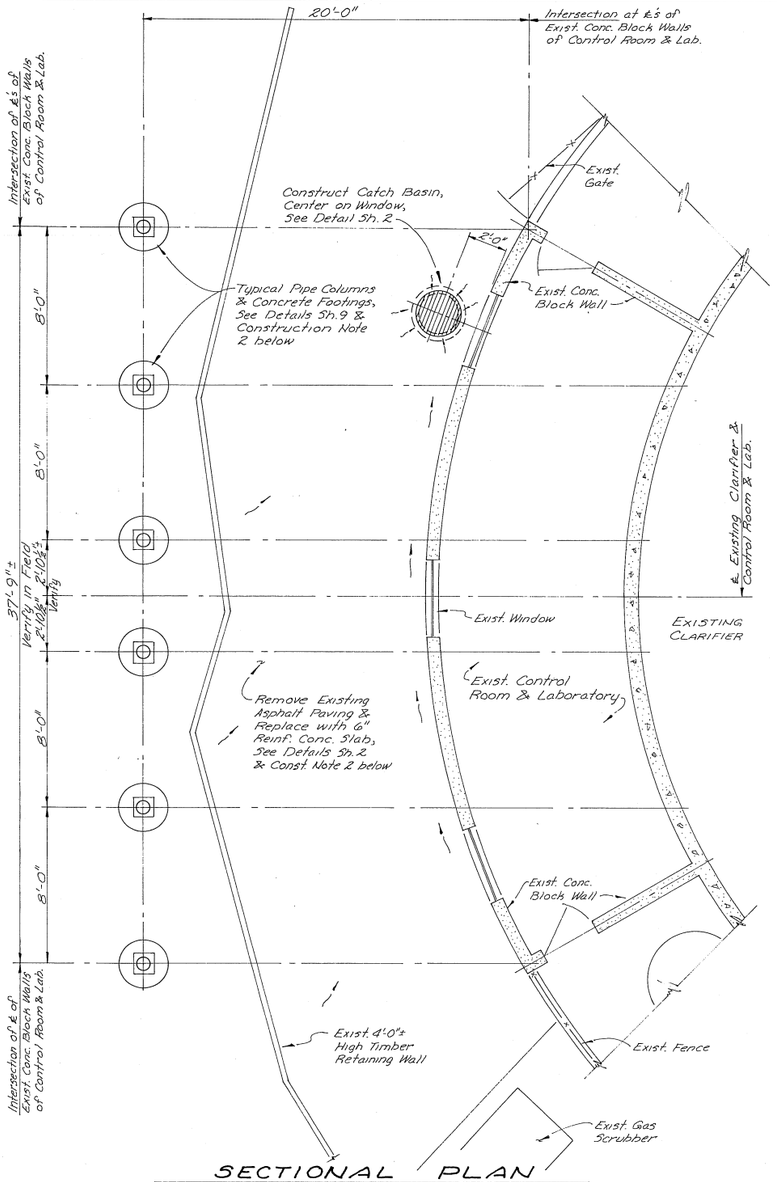
5 OF 13

SAUSALITO - MARIN CITY SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA
WASTEWATER TREATMENT AND DISPOSAL FACILITIES

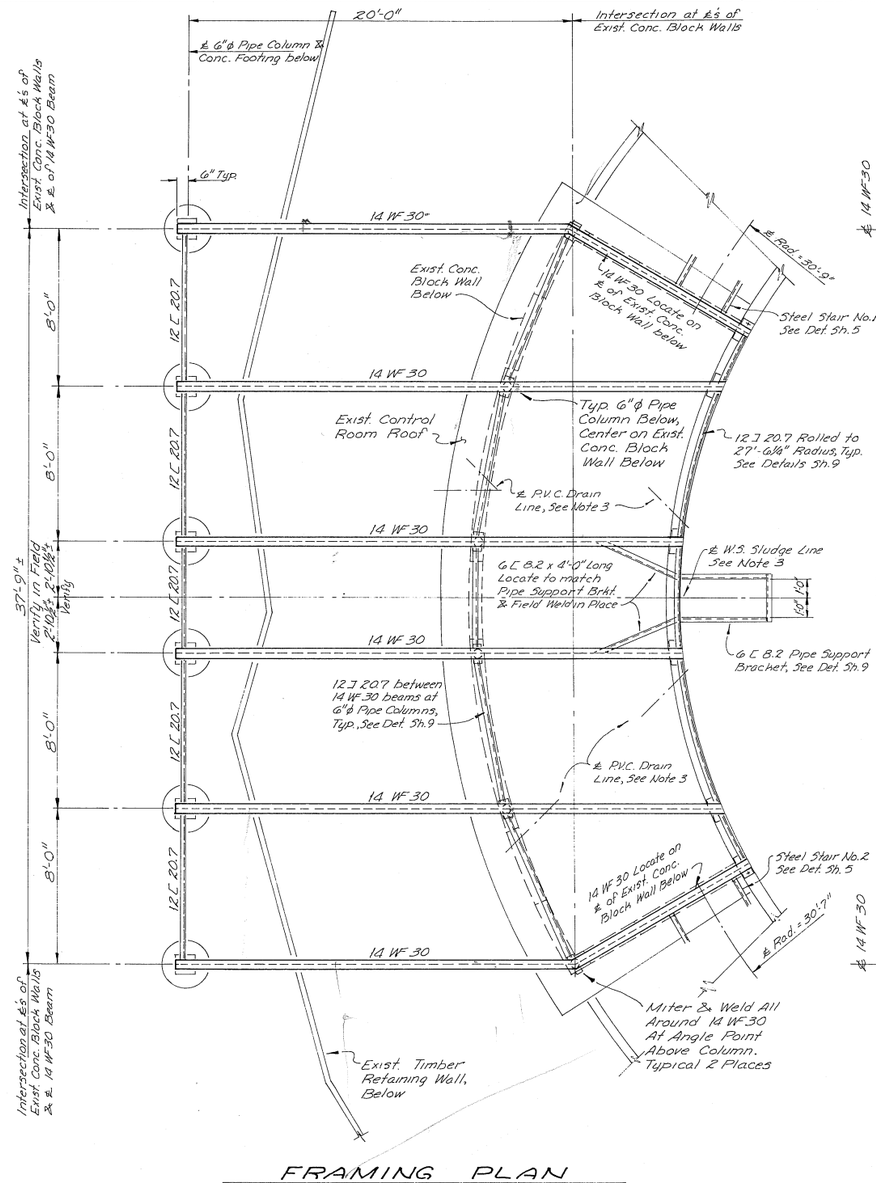
PIPEWORK & EQUIPMENT
MISC. DETAILS & DIAGRAM

JENKS & ADAMSON
CONSULTING SANITARY & CIVIL ENGINEERS

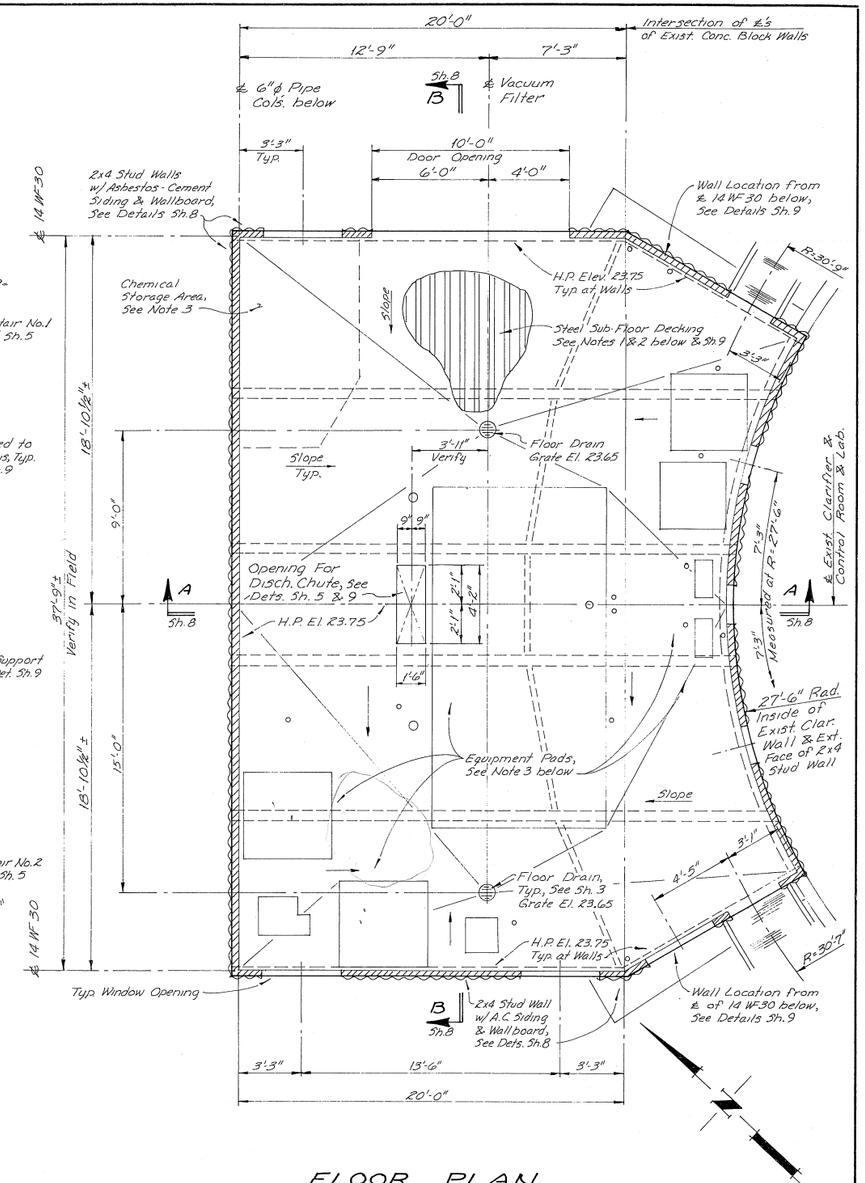
Drawn by:	J.A.C.	Scale:	AS NOTED
Des/Chkd by:	J.A.C. - D.A.B.	Date:	APRIL 1972



SECTIONAL PLAN



FRAMING PLAN



FLOOR PLAN

CONCRETE NOTES

1. All concrete shall be "Class A" concrete developing a compressive strength of not less than 3500 psi in 28 days, See Specs.
2. Reinforcing steel shall be ASTM designation A-615, Grade 60, deformed bars. All splices shall be lapped 24 diameters unless otherwise noted or shown.
3. Chamfer all exposed edges 3/4" unless otherwise noted or shown.

CONSTRUCTION NOTES

1. The Contractor shall verify all features (including dimensions) of the existing structure (Control Room, Laboratory, Clarifier, and Digester) in the field prior to the fabrication or construction required by the alterations and additions indicated.
2. The Contractor shall remove excavation, pipework, equipment, roofing, concrete and pavement as required in the locations indicated and to the dimensions shown. This work shall be done in such a manner that the remaining improvements shall not be damaged and shall be to the satisfaction of the Engineer.
3. The Contractor shall perform the erection and welding work in accordance with OSHA regulations for construction.
4. The Contractor shall patch and repair the existing improvements as required by the construction of the new improvements using suitable and appropriate building materials all to the satisfaction of the Engineer.

FRAMING PLAN NOTES

1. The Sludge Dewatering Facility floor framing shall consist of steel members as shown above. Framing connections and miscellaneous framing details are shown on sheet 9.
2. The Contractor shall verify the structural dimensions of the framing in the field PRIOR to the fabrication of the framing — see Construction Note 1 at left. The tops of all the framing beams shall be set level and true prior to the installation of the steel sub-floor decking.
3. The Contractor shall locate the required PVC drain and W.S. sludge lines shown above and on sheets 3 thru 5 in the field. The beam webs shall then be field cut to pass the drain lines (3/4" Max. clearance) all as approved by the Engineer.
4. The steel framing work above the existing Control Room and Laboratory will require the patching of the existing roof and roofing — see Construction Note 3 at left.

FLOOR PLAN NOTES

1. The Sludge Dewatering Facility Floor shall consist of a steel sub-floor decking welded to the 14 WF 30 beams & a concrete cover slab. The steel beam, decking, and concrete slab details are shown on Sh. 9. Pipework & Equipment details are shown on sheets 3 thru 5.
2. The steel decking specified has adequate strength to support the weight of the concrete cover slab during concrete pouring and curing. The Conc. slab shall be finished to the elevations shown & shall receive a color hardener. Construction material and construction equipment loads as well as project (to be installed) equipment loads shall not be applied to the floor slab in less than 21 days after the placing of the concrete slab.
3. The equipment to be installed shall be moved across this floor slab on approved skids to spread the applied loads to the slab to the loading limit pressures shown below. All equipment dimensions and structural features shown shall be verified to conform to the equipment to be installed. Equipment pads shall be sized to conform to the base plates and to transmit a Max. pressure of 175 pounds per square foot (including the pad & grout) to the slab. Post the following sign on the wall in the chemical storage area

MAXIMUM ALLOWABLE STORAGE LOAD
175 POUNDS PER SQUARE FOOT

HALF SCALE

6 OF 13

SAUSALITO-MARIN CITY SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA
WASTEWATER TREATMENT AND DISPOSAL FACILITIES

STRUCTURAL PLANS

JENKS & ADAMSON
CONSULTING SANITARY & CIVIL ENGINEERS

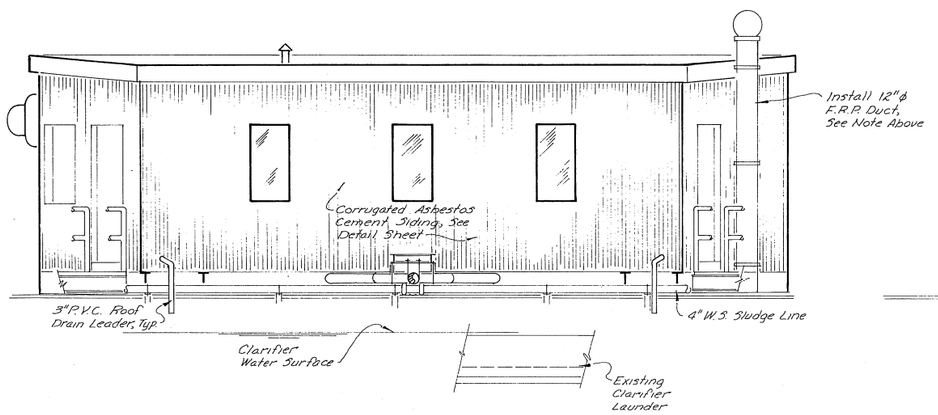
Drawn by:	J.A.C.	Scale:	1/4" = 1'-0"
Des/Chkd by:	J.A.C.- D.A.B.	Date:	APRIL 1972

VENTILATOR RELOCATION NOTE

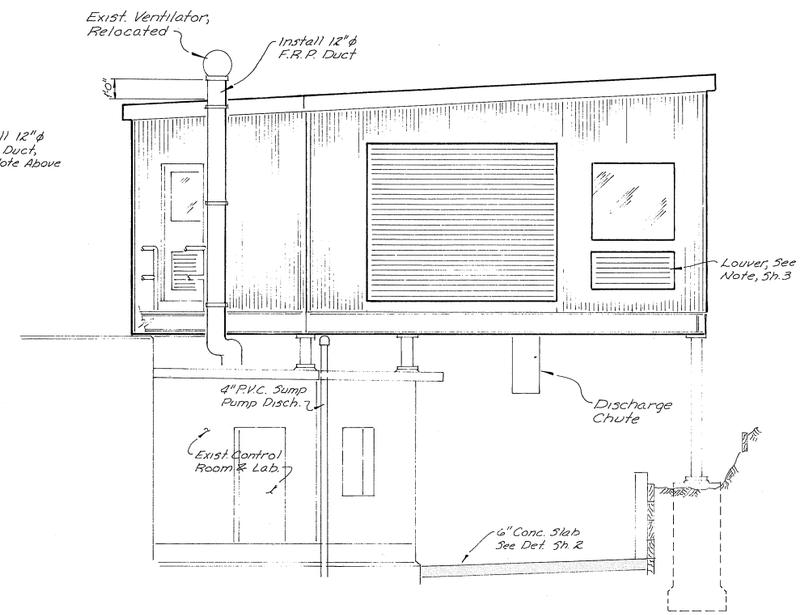
The existing gravity ventilator located on the roof of the existing Control Room shall be removed, salvaged and reinstalled on the new 12"ϕ duct as shown below. The Contractor shall install a 12"ϕ fiberglass, reinforced, plastic duct which runs from the existing ventilator roof opening easterly below the new floor to the exterior of the new structure and then up to a location 1'-0" above the new roof. See Plan sheet 3 and the elevations below.

The duct shall be designed for ventilation application and fabricated from general purpose polyester resins with ultra-violet inhibitors; connected, sealed and flashed at the existing roof; and securely fastened and adequately supported along its route with approved supports.

Bends, transitions, and installation shall be in a neat and workmanlike manner to the satisfaction of the Engineer.



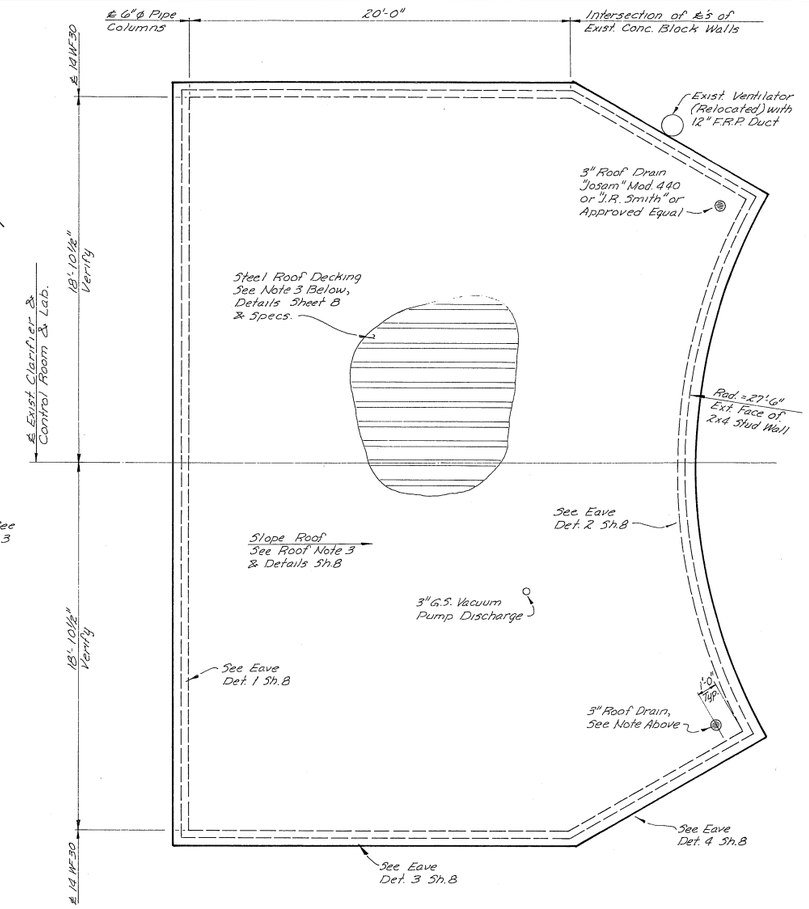
SOUTHEAST ELEVATION



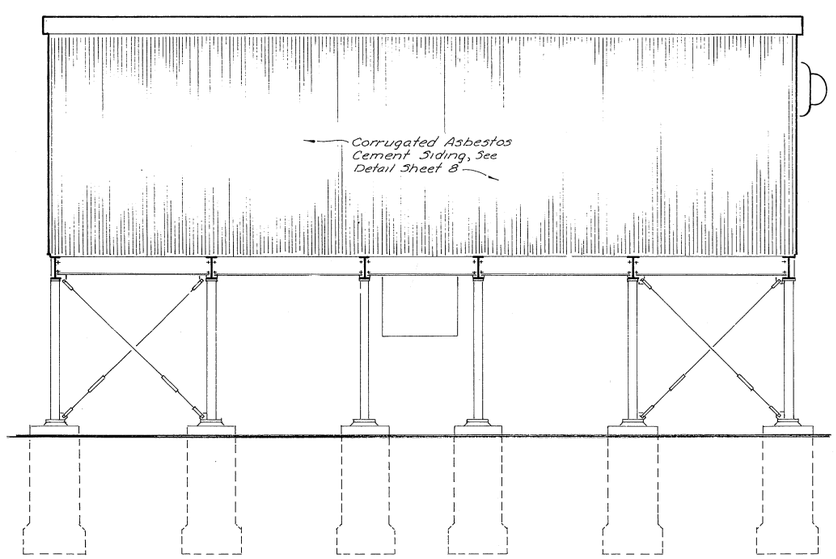
NORTHEAST ELEVATION

NOTE

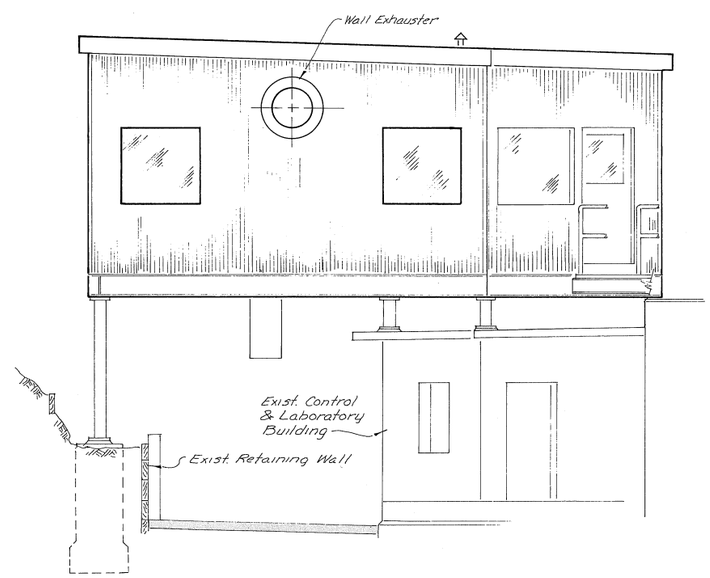
Door, Window, Louvers & Wall Exhauster Sizes, Details & Requirements are Noted on Sheet 3. Door & Window Details are shown on Sheet 9.



ROOF PLAN



NORTHWEST ELEVATION



SOUTHWEST ELEVATION

ROOF PLAN NOTES

1. The Sludge Dewatering Facility roof shall consist of a steel roof decking connected to, and supported by, the stud walls; all as detailed on sheet 8. The roofing shall consist of a 1½" thick, rigid, insulation board and a "20 year" built-up, gravel surfaced system as shown and specified on sheet 8.
2. The Contractor shall verify the structural dimensions of the stud walls in the field PRIOR to the fabrication or construction required for the Roof System. See Construction Note 1, sheet 6.
3. Slope the steel decking as shown on Section A-A and noted on the e details on sheet 8. Finish the Roofing System to provide drainage to the two roof drains shown on the Roof Plan above.
4. The Contractor shall apply a certified "20 year" asphalt, rag-felt, built-up roofing over a 1½" thick, rigid, fiber insulation board. See Roofing Note, sheet 8.

HALF SCALE

7 OF 13

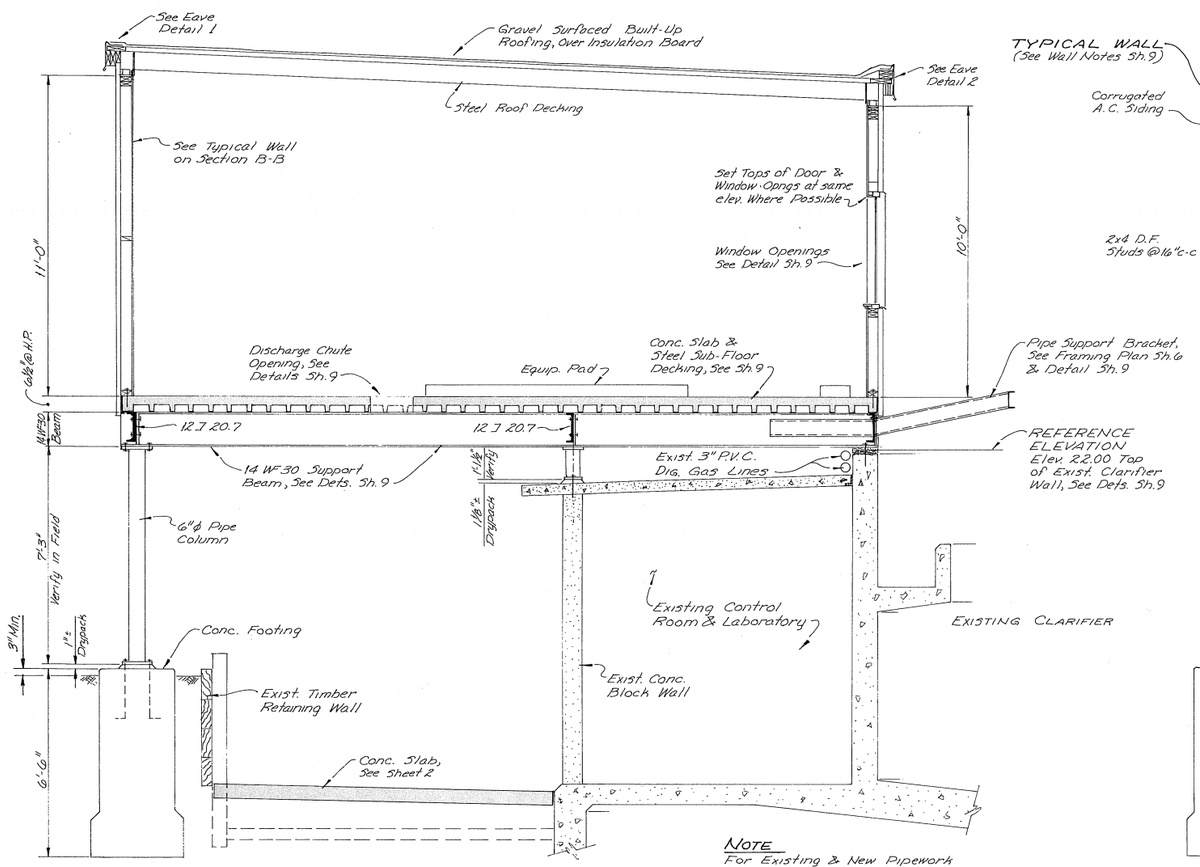
SAUSALITO-MARIN CITY SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA
WASTEWATER TREATMENT AND DISPOSAL FACILITIES

STRUCTURAL

ROOF PLAN & ELEVATIONS

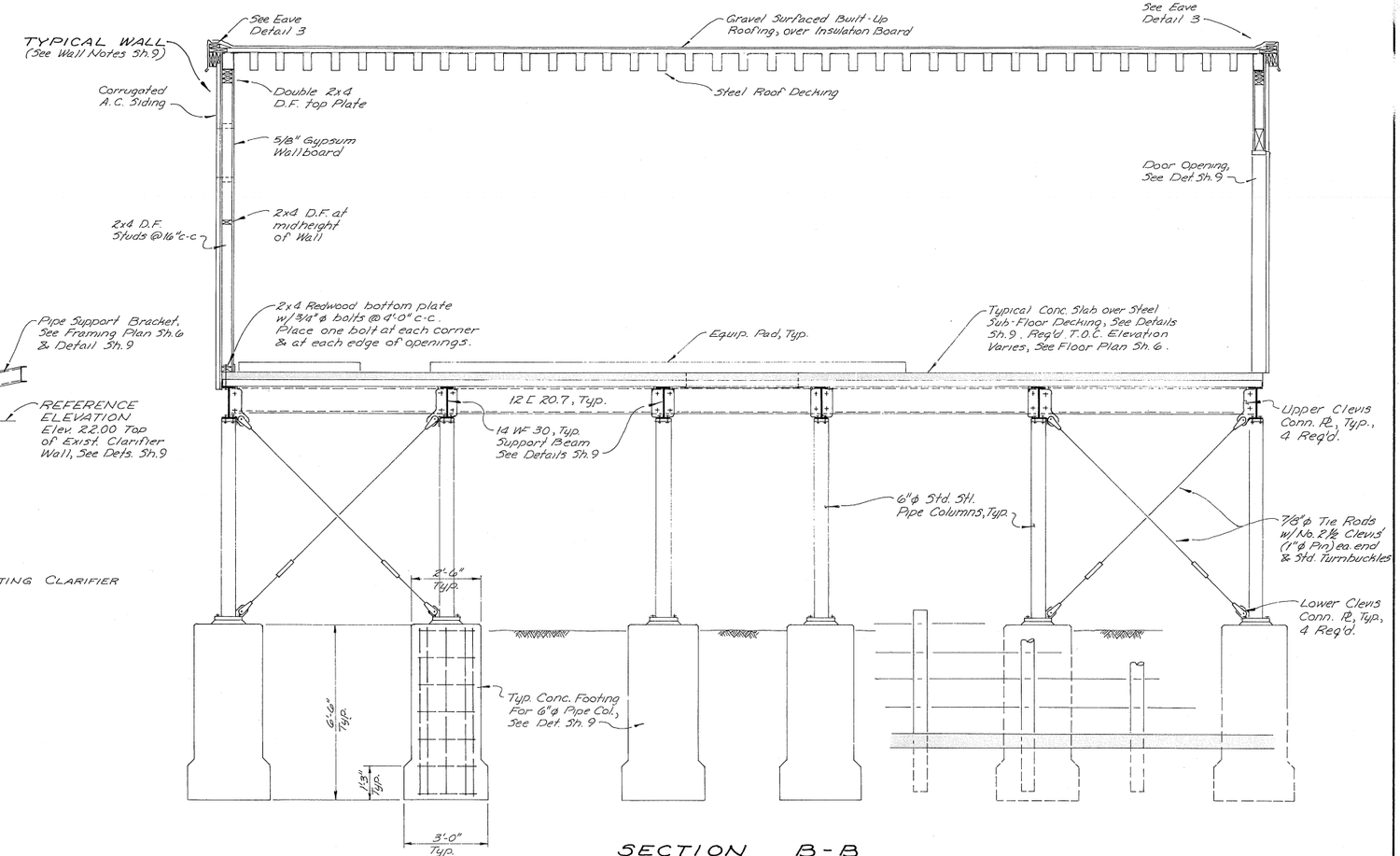
JENKS & ADAMSON
CONSULTING SANITARY & CIVIL ENGINEERS

Drawn by:	J.A.C.	Scale:	1/4" = 1'-0"
Des/Chkd by:	J.A.C.- D.A.B.	Date:	APRIL 1972

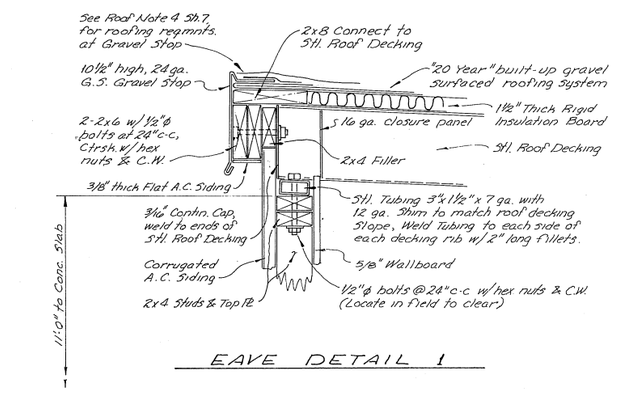


NOTE
For Existing & New Pipework & Equipment not shown on these Sections, See Sheets 3 thru 5.

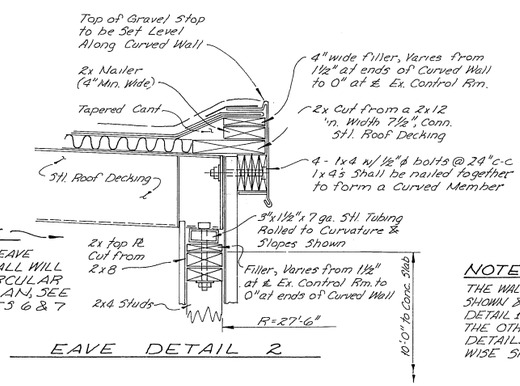
SECTION A-A



SECTION B-B



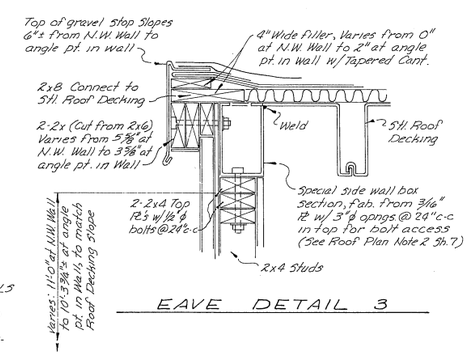
EAVE DETAIL 1



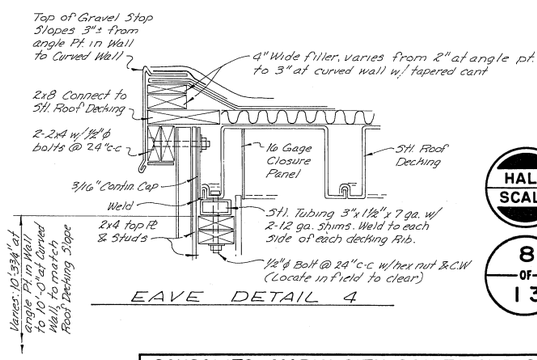
NOTE
THIS EAVE AND WALL WILL BE CIRCULAR IN PLAN, SEE SHEETS 6 & 7

EAVE DETAIL 2

NOTE
THE WALL AND ROOF DETAILS SHOWN & NOTED ON EAVE DETAIL 1 SHALL APPLY TO THE OTHER THREE EAVE DETAILS UNLESS OTHERWISE SHOWN OR NOTED.



EAVE DETAIL 3



EAVE DETAIL 4

EAVE DETAILS

SCALE: 1 1/2" = 1'-0"

HALF SCALE

8 OF 13

ROOFING NOTE

The Roofing System Installation Shall be as Follows:

The Entire Steel Roof Decking Shall be primed with Asphalt primer at 8#/square followed by a hot Asphalt mopping at 25#/square and while hot embed the 1 1/2" thick Rigid Fiber Insulation Board. A solid Asphalt mopping at 30#/square shall be applied over the insulation to receive the first layer of the 4 layers of 15# Asphalt Saturated Felt. The balance of the Roofing shall be 3 hot Asphalt mappings between the 4 Felt layers at 25#/square per Felt layer mopping and 3 layers of 15# Asphalt Saturated Felt, 60#/square hot Asphalt flood coat and 400#/square of White Gravel Surfacing together with all necessary flashing and sealing. Extend the first 2 layers of 15# Felt 8" beyond the edge of the Roof Deck, apply and trim the other 2 layers of Felt, and then fold the extended layers over the top and mop in place. Place the Gravel Stop on top of the Felts and nail in place and then Seal with a 6" Wide Strip of Glass Fabric and a 12" Wide strip of 15# Felt embedding each strip in hot Asphalt.

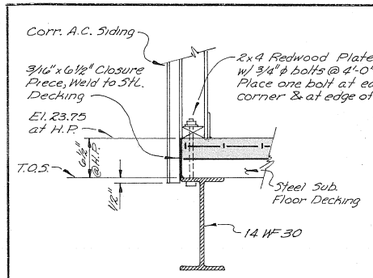
The Insulation Board and Roofing shall be "Flintkote", "Johns-Manville", or Approved Equal, See Specs.

SAUSALITO - MARIN CITY SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA
WASTEWATER TREATMENT AND DISPOSAL FACILITIES

STRUCTURAL SECTIONS

JENKS & ADAMSON
CONSULTING SANITARY & CIVIL ENGINEERS

Drawn by:	J.A.C.	Scale:	3/8" = 1'-0", EX. AS NOTED
Des/Chkd by:	J.A.C.- D.A.B.	Date:	APRIL 1972

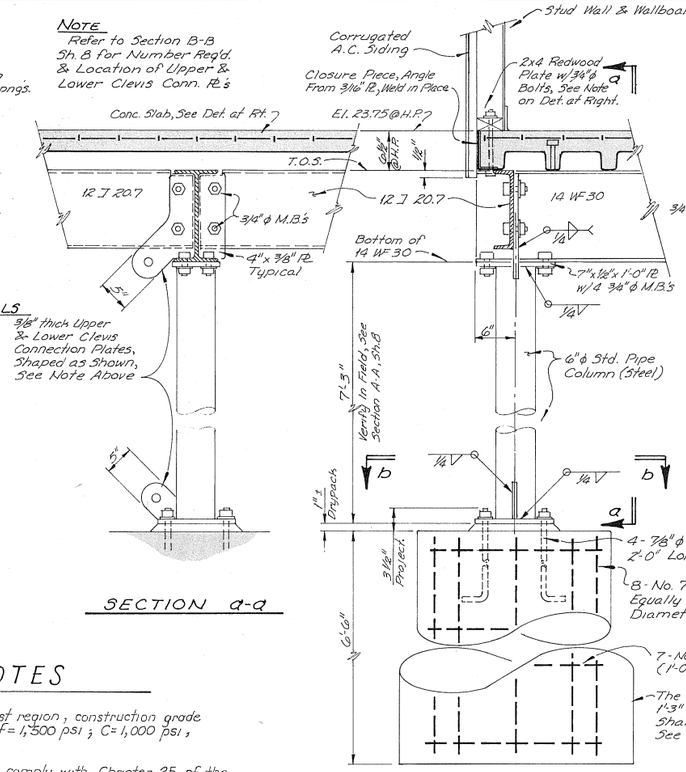


TYP. FOR NORTHEAST & SOUTHWEST WALLS

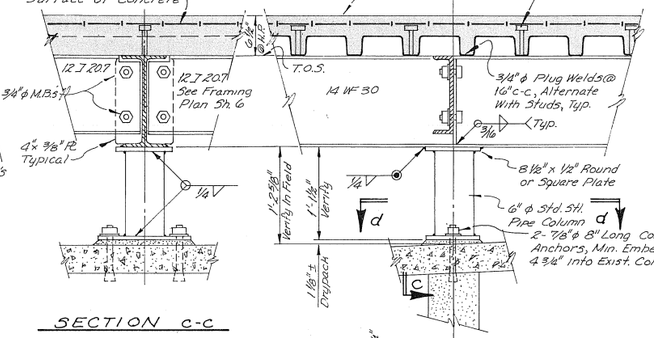
TYPICAL EDGE BEAM DETAIL

SCALE: 1" = 1'-0"

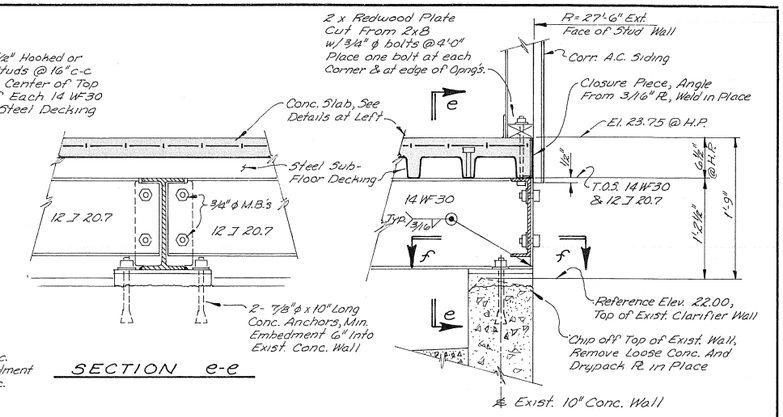
NOTE
Refer to Section B-B Sh. 8 for Number Req'd. & Location of Upper & Lower Clevis Conn. Rt's



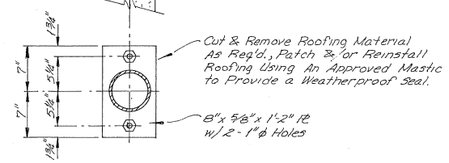
SECTION a-a



SECTION c-c



SECTION e-e

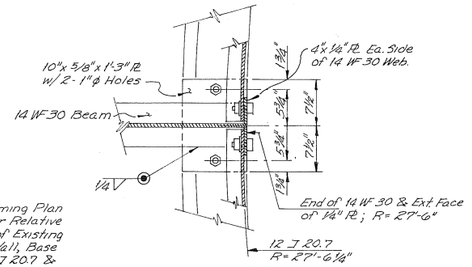


SECTION d-d

BEAM DETAIL NOTES

1. Existing & New Pipework is Not Shown on These Support Beam Details, See Sheets 3 to 5
2. All Welding Materials & Procedures Shall be in Conformance with the Latest applicable Standards of the American Welding Society.

NOTE
See Framing Plan Sheet 6 For Relative Positions of Existing Clarifier Wall, Base Plates, 12 J 20.7 & 14 WF 30 Beams.



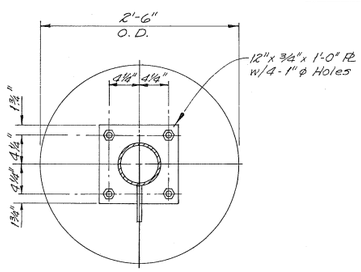
SECTION f-f

WALL NOTES

1. All lumber used shall be Douglas Fir, Coast region, construction grade (unless otherwise noted) as follows: f = 1,500 psi; C = 1,000 psi, E = 1,600,000.
2. Nailing and general construction shall comply with Chapter 25 of the 1970 edition of the Uniform Building Code.
3. The Sludge Dewatering Facility walls above Elevation 23.75 shall be 2×4 stud construction as follows:
   a. double top plate and single redwood bottom plate;
   b. vertical stud spacing of not more than 16" cc;
   c. 2×4 firestop at mid-height of wall & added framing as required to provide siding support;
   d. solid framing at the corners and double studs at edges of openings;
   e. 4×4 Min. headers for openings to 3'-0", 4×6 Min. headers for openings to 6'-0", and 4×10 Min. header for a 10'-0" opening;
   f. the exterior wall surfacing on the northeast wall & the southwest wall shall be 5/16" Min. structural grade Douglas Fir plywood diaphragm blocked and nailed with 8d nails at 6" spacing at all edges and at intermediate studs;
   g. the southeast wall and the northwest wall shall have either 1×4 diagonal bracing let into the studs or plywood diaphragms as noted above;
   h. see Sections A-A and B-B, sheet 8 for typical wall details.
4. Install corrugated asbestos cement siding on the exterior of the stud walls. The installation shall be in strict accordance with the manufacturer's recommendations, and as follows:
   a. install siding panels with corrugations running vertically, one corrugation side lap and corner roll pieces;
   b. seal side laps & corners with plastic cement or asbestos putty;
   c. siding panel fasteners shall be lead head drive screws;
   d. fastener spacings shall be 12" cc (approx.) at top & bottom of panel, 18" cc (approx.) at mid height and 5 fasteners Min. per side lap;
   e. install asphalt closure strips at the top & bott. of each panel, Set the strip and panel in mastic;
   f. see sheet 8 and this sheet for additional details & requirements.
5. Install 5/8" thick gypsum wallboard on the interior of the stud walls, The installation shall be in strict accordance with the manufacturer's recommendations & as follows:
   a. wallboard end joints shall be supported on framing members;
   b. wallboard nailing shall be 6d at 8" minimum spacing;
   c. install wallboard metal accessories as required;
   d. wallboard shall be taped and painted;
   e. install 4" high vinyl cove base on all walls;
   f. see sheet 8 and this sheet for additional details and requirements.

TYPICAL SUPPORT BEAM ELEVATION AND DETAILS

SCALE: 1" = 1'-0"



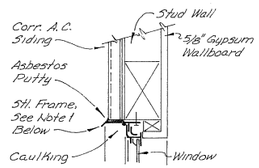
SECTION b-b

DOOR DETAIL NOTES

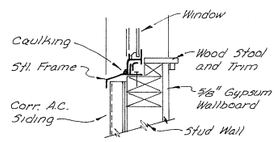
1. Fabricate & Install a two piece 14 ga. Galv. Stl. Frame for each Door Opening As Shown at Rt. Extend Head Cap over Jamb Frame on ea. side, Field Trim to fit A.C. Siding & Seal with Putty.
2. Provide & Install Asphalt Closure Strips around each Door Opening. Set the Strip & A.C. Siding in Mastic & Seal Opening with Gray Asbestos Putty.

WINDOW DETAIL NOTES

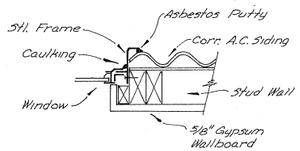
1. Fabricate & Install a 14 ga. Stl. Frame for each Window Opening As Shown at Rt. Extend Head Cap over Jamb Frame on ea. side, Field trim to fit A.C. Siding & Seal. Coat ea. Frame with a P.V.C. Coating; Material, Color & Thickness to match the Window Coating.
2. Provide & Install Asphalt Closure Strips around each Window Opening. Set the Strip & A.C. Siding in Mastic & Seal the Openings with Gray Asbestos Putty.



HEAD



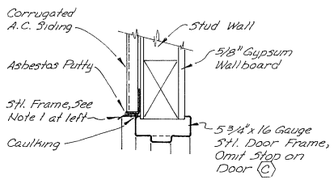
SILL



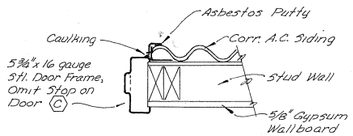
JAMB

WINDOW DETAILS

SCALE: 1 1/2" = 1'-0"



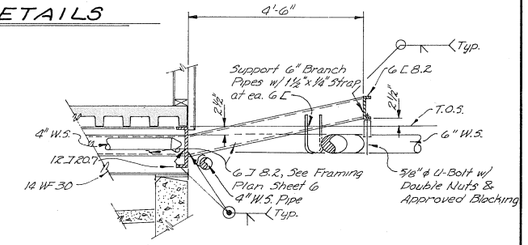
HEAD



JAMB

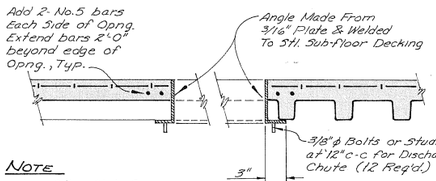
DOOR DETAILS

SCALE: 1 1/2" = 1'-0"



PIPE SUPPORT BRACKET DETAIL

SCALE: 1 1/2" = 1'-0"



NOTE
Line Other Slab Openings With 16 Gauge (Min.) Steel Liners Welded to Decking.

DISCHARGE CHUTE OPENING DETAIL

SCALE: 1" = 1'-0"

HALF SCALE

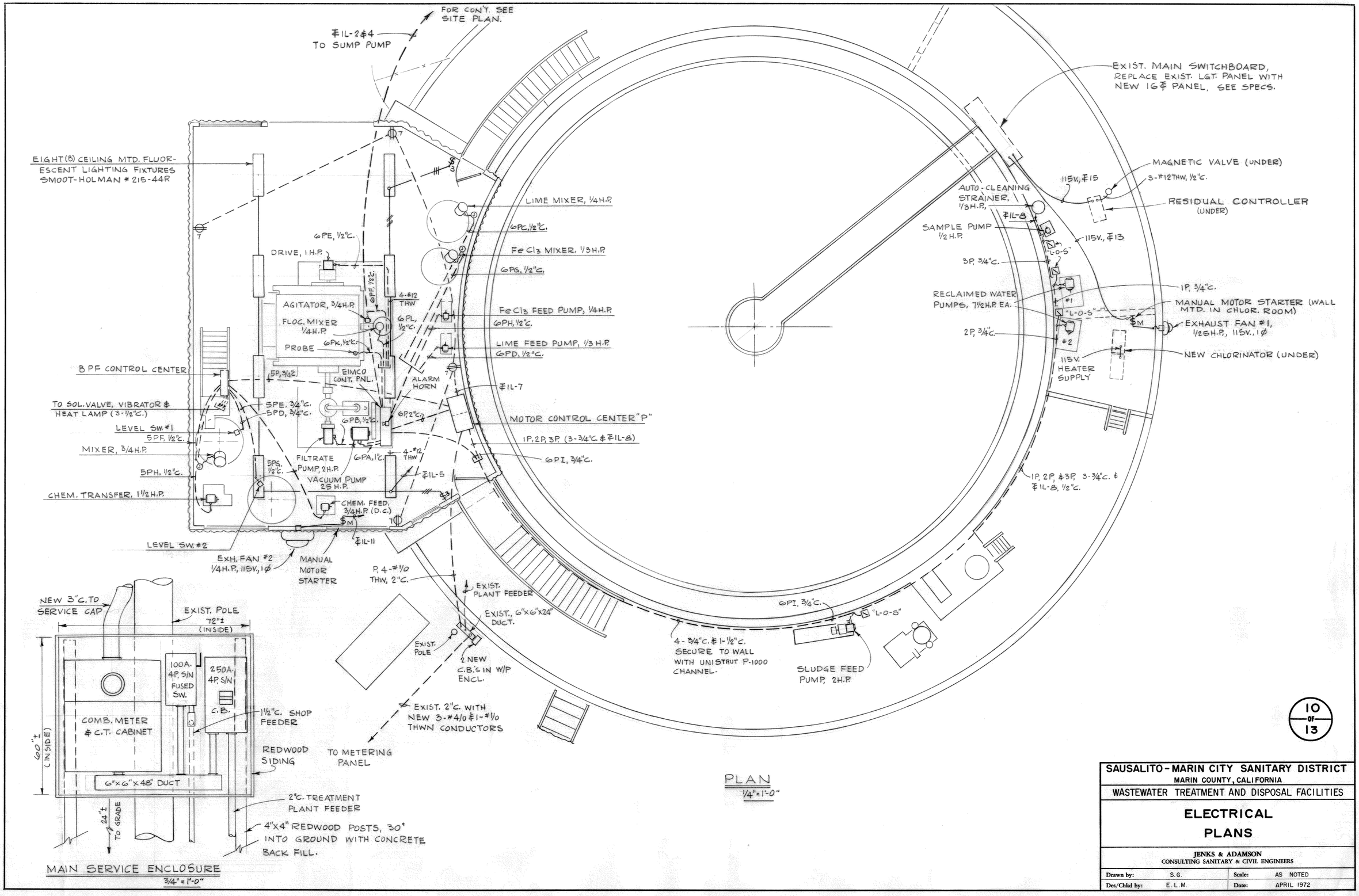
9 OF 13

SAUSALITO - MARIN CITY SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA
WASTEWATER TREATMENT AND DISPOSAL FACILITIES

STRUCTURAL DETAILS

JENKS & ADAMSON
CONSULTING SANITARY & CIVIL ENGINEERS

Drawn by:	J.A.C.	Scale:	AS NOTED
Des/Chkd by:	J.A.C. – D.A.B.	Date:	APRIL 1972



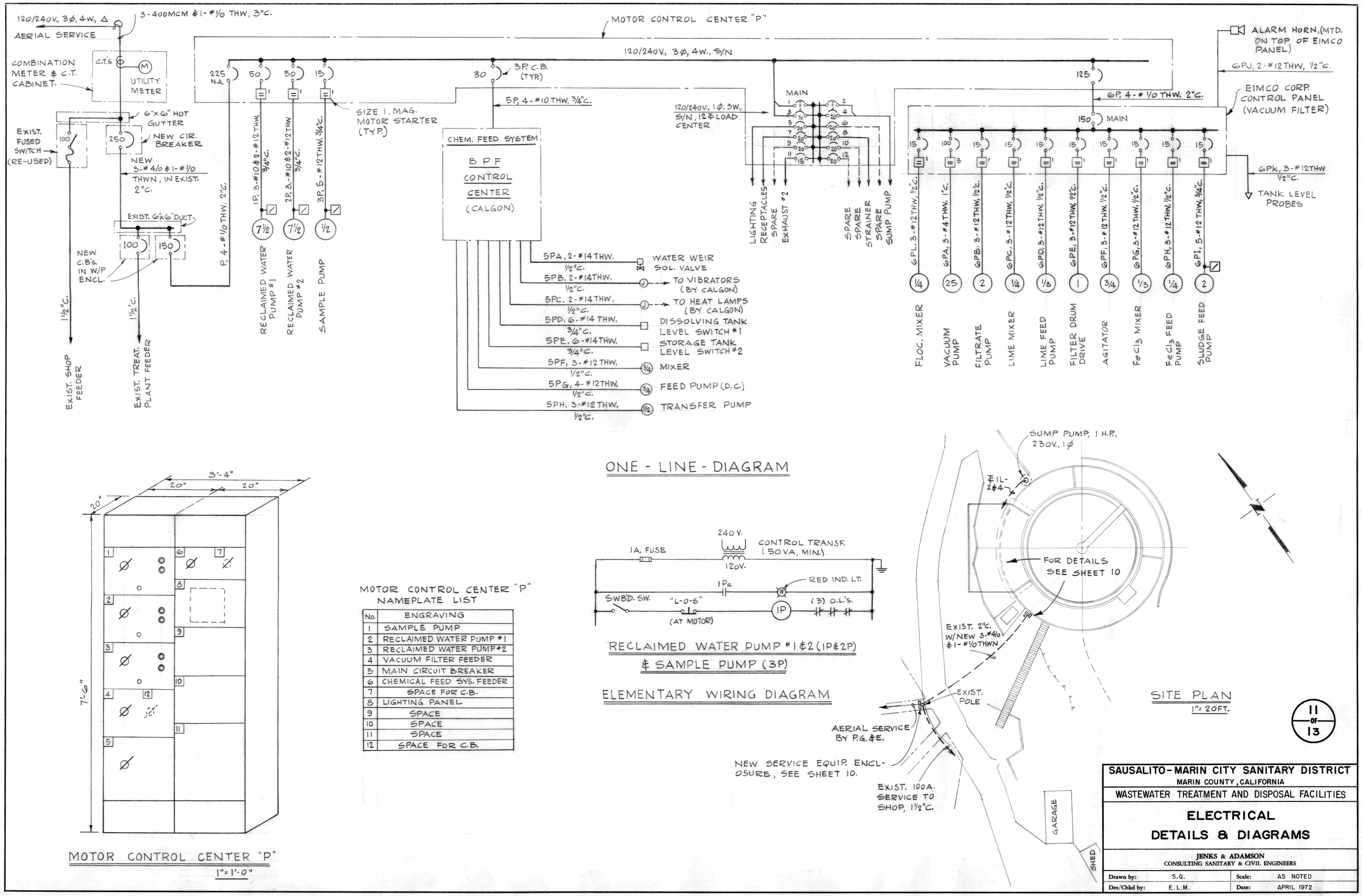
SAUSALITO-MARIN CITY SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA

WASTEWATER TREATMENT AND DISPOSAL FACILITIES

ELECTRICAL PLANS

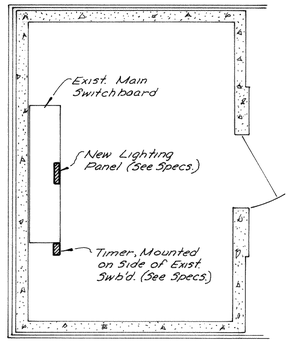
JENKS & ADAMSON
CONSULTING SANITARY & CIVIL ENGINEERS

Drawn by:	S.G.	Scale:	AS NOTED
Des/Chkd by:	E.L.M.	Date:	APRIL 1972



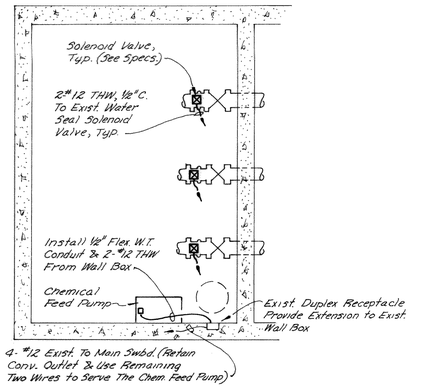
MOTOR CONTROL CENTER "P"
NAMEPLATE LIST

No.	ENGRAVING
1	SAMPLE PUMP
2	RECLAIMED WATER PUMP #1
3	RECLAIMED WATER PUMP #2
4	VACUUM FILTER FEEDER
5	MAIN CIRCUIT BREAKER
6	CHEMICAL FEED SYS. FEEDER
7	SPACE FOR C.B.
8	LIGHTING PANEL
9	SPACE
10	SPACE
11	SPACE
12	SPACE FOR C.B.



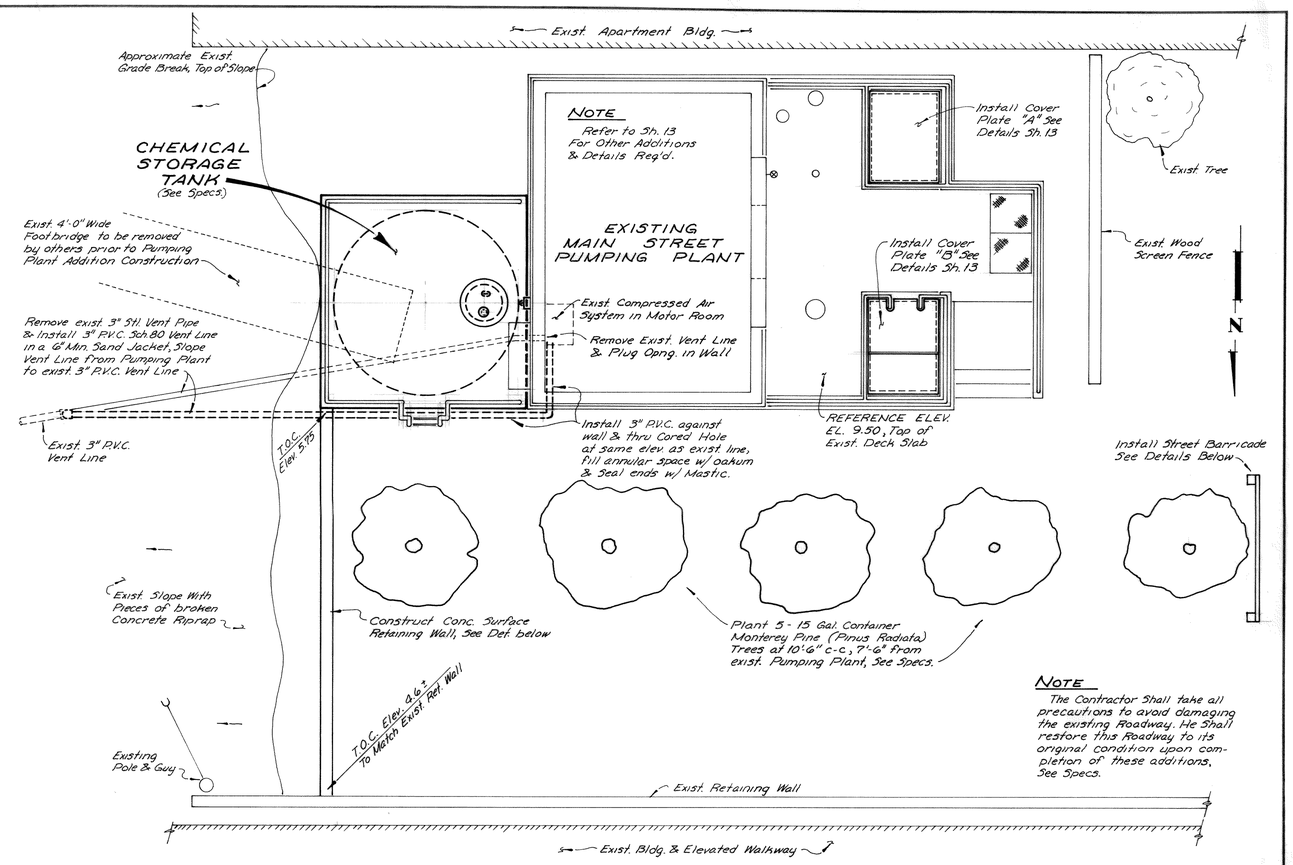
CONTROL ROOM PLAN

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



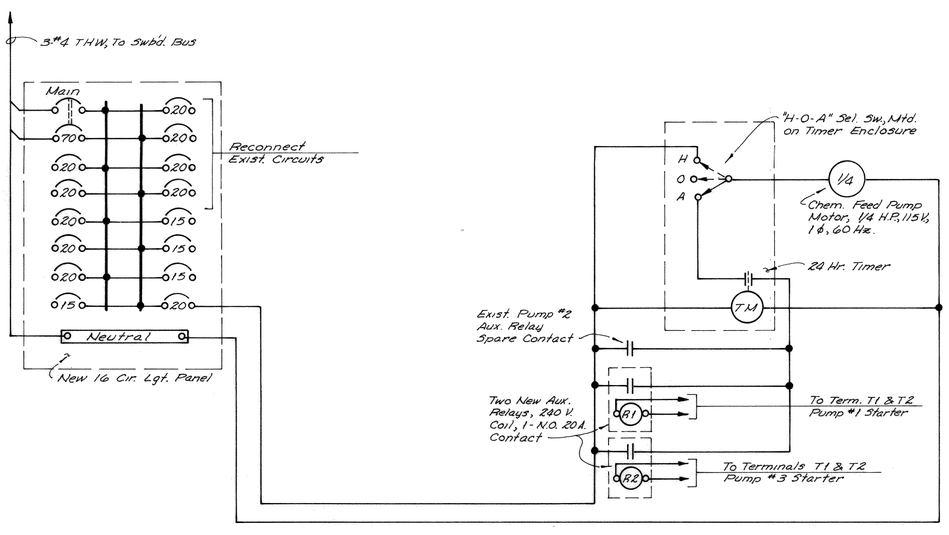
PUMP ROOM PLAN

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



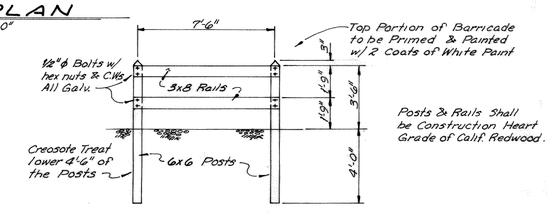
SITE PLAN

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



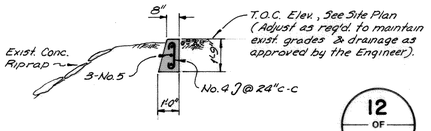
CHEMICAL FEED SYSTEM WIRING DIAGRAM

ELECTRICAL PLANS AND DIAGRAM



STREET BARRICADE DETAIL

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



CONC. RET. WALL DETAIL

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

12 OF 13

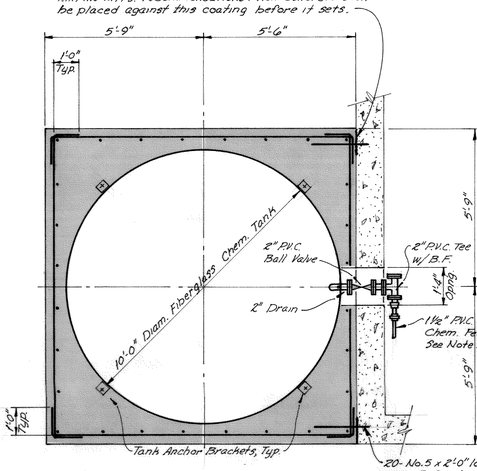
SAUSALITO - MARIN CITY SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA

WASTEWATER TREATMENT AND DISPOSAL FACILITIES

MAIN STREET PUMPING PLANT ADDITIONS
SITE PLAN & MISC. DETAILS

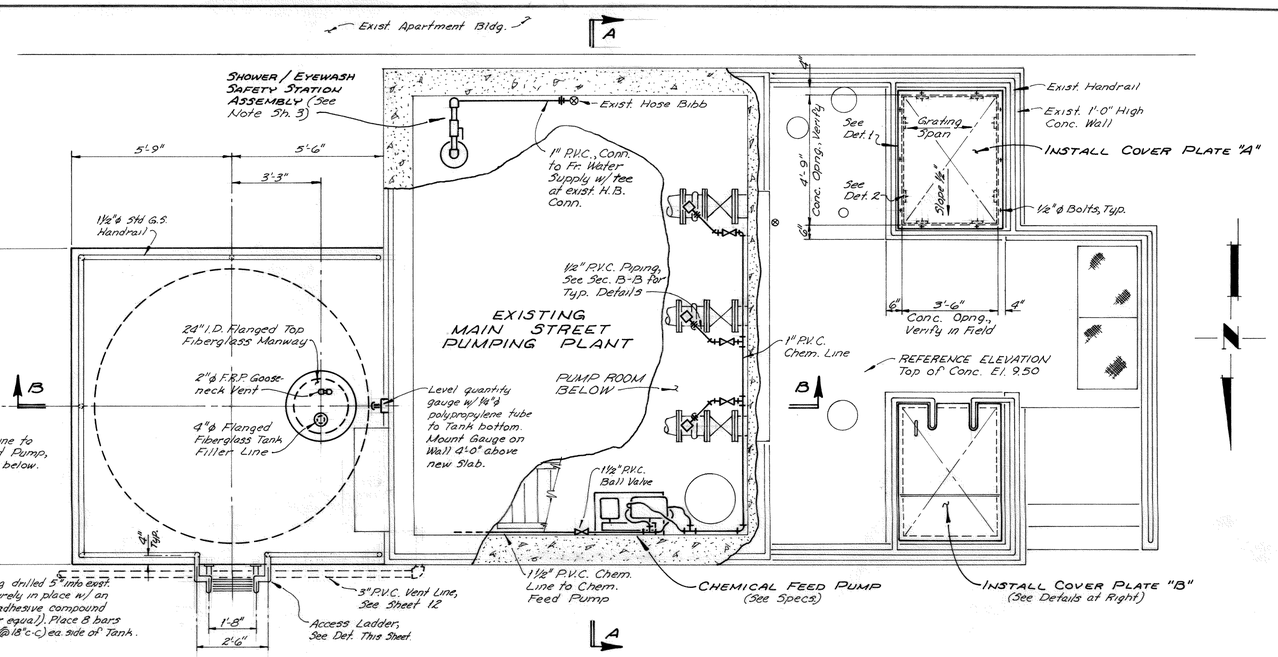
JENKS & ADAMSON
CONSULTING SANITARY & CIVIL ENGINEERS

Drawn by:	J.A.C.	Scale:	AS NOTED
Des/Chkd by:	J.A.C. - D.A.B.	Date:	APRIL 1972



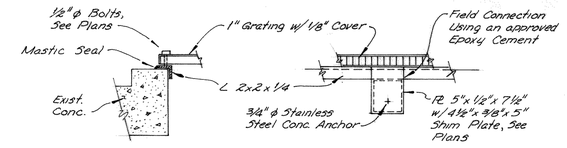
SECTIONAL PLAN AT CHEM. TANK

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



PLAN

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

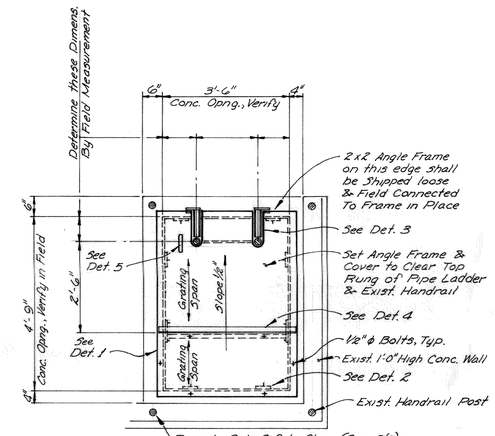


DETAIL 1

SCALE: 1"=1'-0"

DETAIL 2

SCALE: 1"=1'-0"

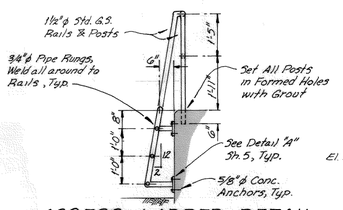


COVER PLATE "B"

SCALE: ½"=1'-0"

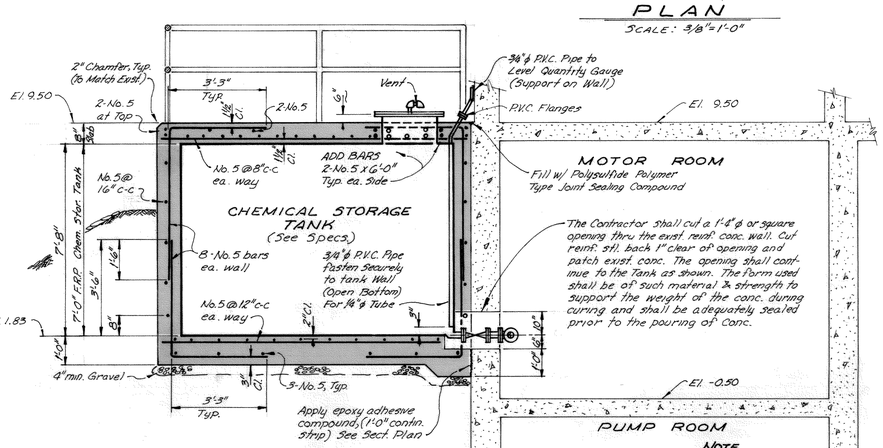
CHEMICAL TANK NOTES

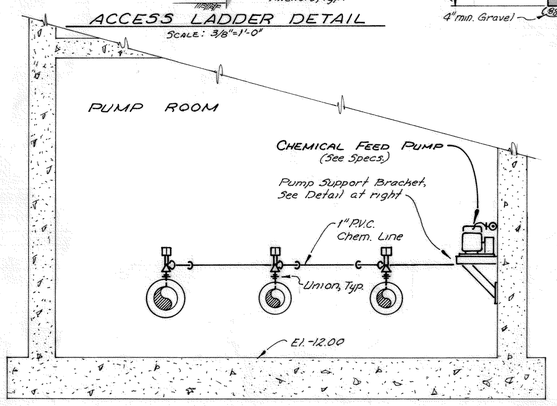
1. Concrete Notes 1 thru 3 & Construction Notes 1 thru 4 shown on Sh. 6 Shall also apply to this structure.
2. The Piping Locations Shall be established in the field to conform to the Exist. Pump Station installation.
3. The Contractor shall make provisions to anchor the Tank in Place Prior to placing concrete. Care & provisions Shall be taken during the concrete construction to avoid damage to the Tank bottom, sides & top. The recommendations of the Tank Mfr. shall be followed. The contractor shall construct falsework & shoring to support the slab over the Tank during the curing of the Concrete.



ACCESS LADDER DETAIL

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





SECTION A-A

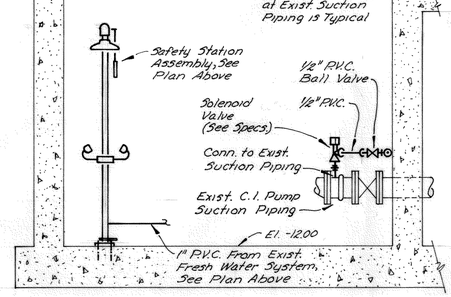
SCALE: 3/8"=1'-0"

PIPE SUPPORT NOTE

The Contractor Shall Provide and Install adequate Supports for the new Pipework all as approved by the Engineer.

P.V.C. Piping shall be Supported at each piping direction change and at a maximum spacing of 5'-0", See Pipe Support Note on Sh. 4.

P.V.C. lines running thru exist. Conc. Slabs and Walls shall be similar to the details shown on Sheets 4 and 5.



NOTE

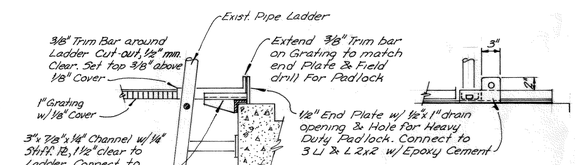
Exist. Equip. Not Shown in this Section

SECTION B-B

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

COVER PLATES "A" & "B" NOTES

1. Grating, Cover, Angle, Channel, Plate & Bolts Shall be Fire Retardant Fiberglass unless otherwise noted as Mfrd. by Ryerson, Fibergrate, Extren or approved equal. The Grating shall be 1" thick having a 1" x 4" rectangular mesh with ⅜" trim bar on all edges & a ⅛" thick Cover cemented on with an approved epoxy. All Cuts (Including field cuts) shall be Sealed with a Resin Coating. Slope the Covers as shown using shims Under the 2x2 angle. & provide a waterproof installation using a Mastic Seal at the angle edges & a ¼" x 1½" Neoprene sheet between the frame angle & Cover (Secure to angle w/ adhesive).
2. The Contractor shall Verify existing Structure dimensions in the field prior to the Fabrication of the Cover Plates.
3. Submit Details Prior to Fabrication.

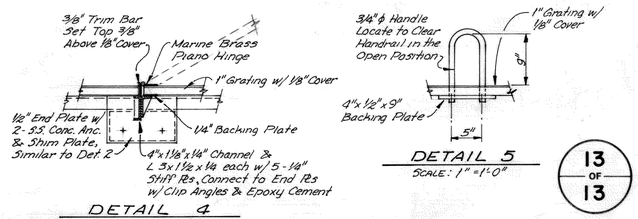


NOTE

The Contractor Shall Provide Two Identical Heavy Duty Padlocks

DETAIL 3

SCALE: 1"=1'-0"

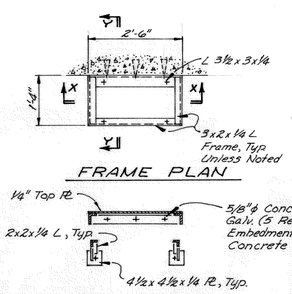


DETAIL 4

SCALE: 1"=1'-0"

DETAIL 5

SCALE: 1"=1'-0"

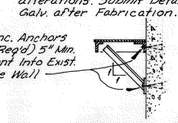


FRAME PLAN

SECTION Y-Y

NOTES

Pump Supp. Brkt. Shall be of all Welded Const. w/ Stl. Members as Indicated. Pump to be Installed may require dimen. & member alterations. Submit Details prior to Fabric. Galv. after Fabrication.



SECTION X-X

PUMP SUPPORT BRACKET DETAILS

SCALE: ½"=1'-0"

13 OF 13

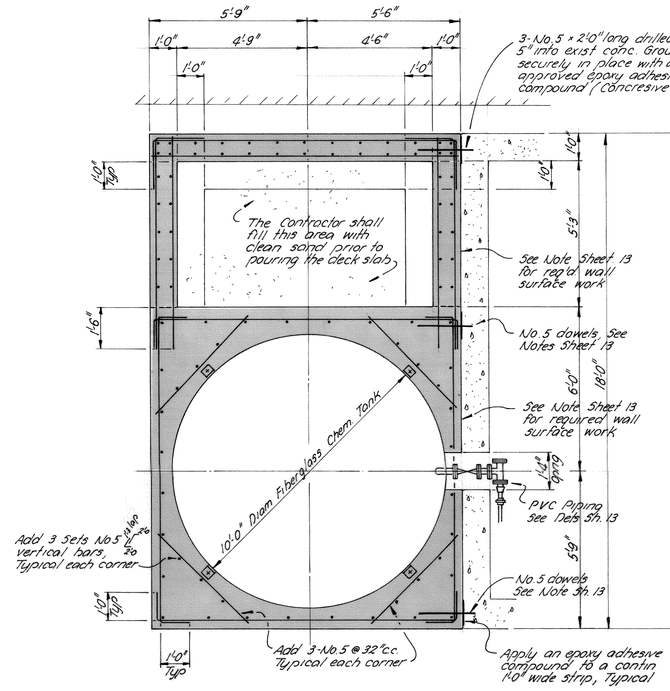
SAUSALITO-MARIN CITY SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA

WASTEWATER TREATMENT AND DISPOSAL FACILITIES

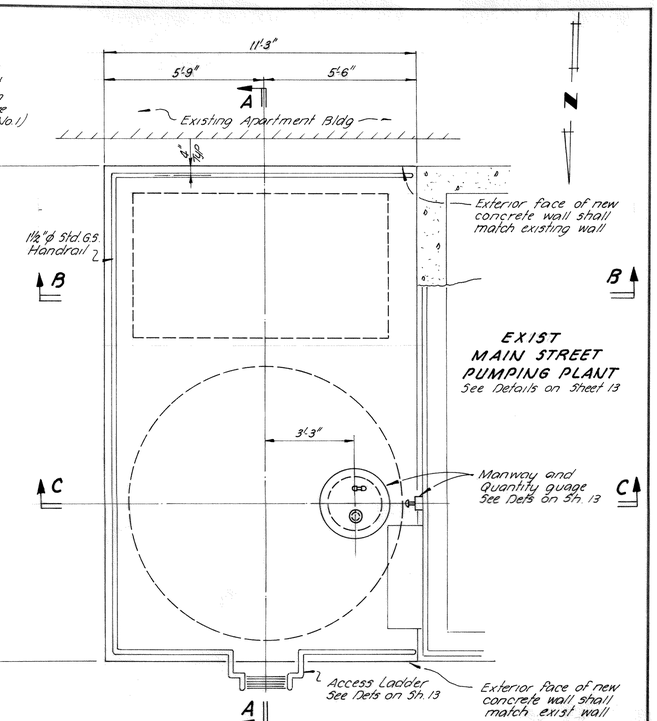
MAIN STREET PUMPING PLANT ADDITIONS
PLAN, SECTIONS & DETAILS

JENKS & ADAMSON
CONSULTING SANITARY & CIVIL ENGINEERS

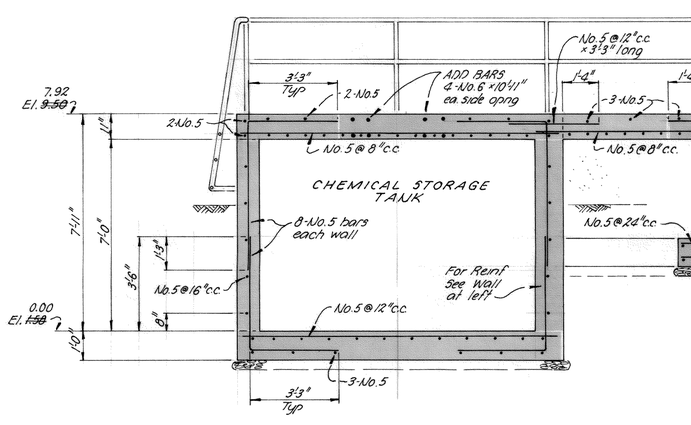
Drawn by:	J.A.C.	Scale:	AS NOTED
Des/Chkd by:	J.A.C. — D.A.B.	Date:	APRIL 1972



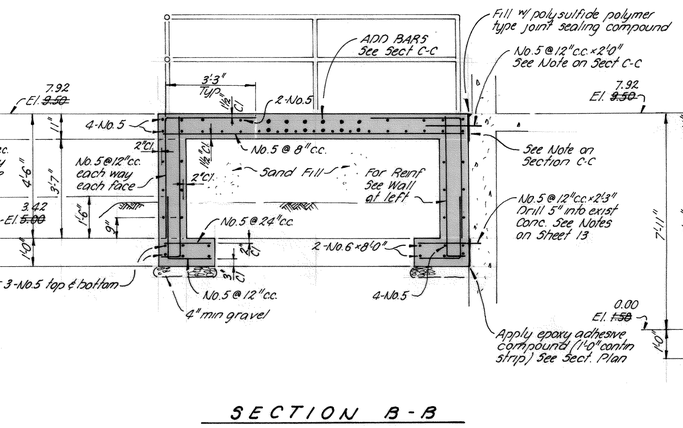
SECTIONAL PLAN



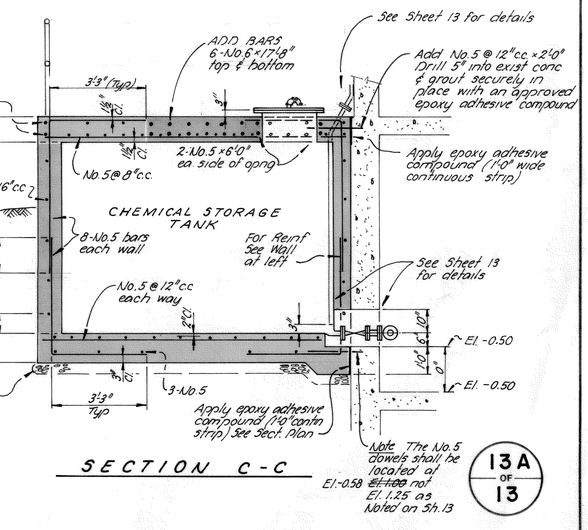
PLAN



SECTION A-A



SECTION B-B



SECTION C-C

13A OF 13

STRUCTURE LOCATION NOTE

This structure has been shown and detailed with the top of the deck slab at Elev. 9.50 The complete unit may be relocated at a lower deck slab elevation depending upon soil and water conditions encountered during excavation. This relocation will be ordered by the Engineer at that time including minor modifications

NOTE - SET TOP OF DECK SLAB AT ELEV. 7.92, DECEMBER 12, 1973

NOTE

The Chemical Storage Tank and reinforcing steel which has been detailed and submitted shall be utilized as originally detailed in this extra work. Additional reinf has been noted as "ADD BARS" and/or "Add." This additional reinf is located in the four corners of the concrete structure as shown on the Sect Plan and in the deck slab as shown on the sections. Please note that the deck slab depth has been increased to 1'-1" and that the vert bar lap has been decreased to 1'-3"

EXTRA WORK ORDER NO.1

SAUSALITO-MARIN CITY SANITARY DISTRICT
MARIN COUNTY, CALIFORNIA

WASTEWATER TREATMENT AND DISPOSAL FACILITIES

MAIN STREET PUMPING PLANT ADDITIONS
PLAN, SECTIONS & DETAILS

JENKS & ADAMSON
CONSULTING SANITARY & CIVIL ENGINEERS

Drawn by:	MR	Scale:	3/8" = 1'-0"
Des/Chkd by:	DAB	Date:	DEC. 1973