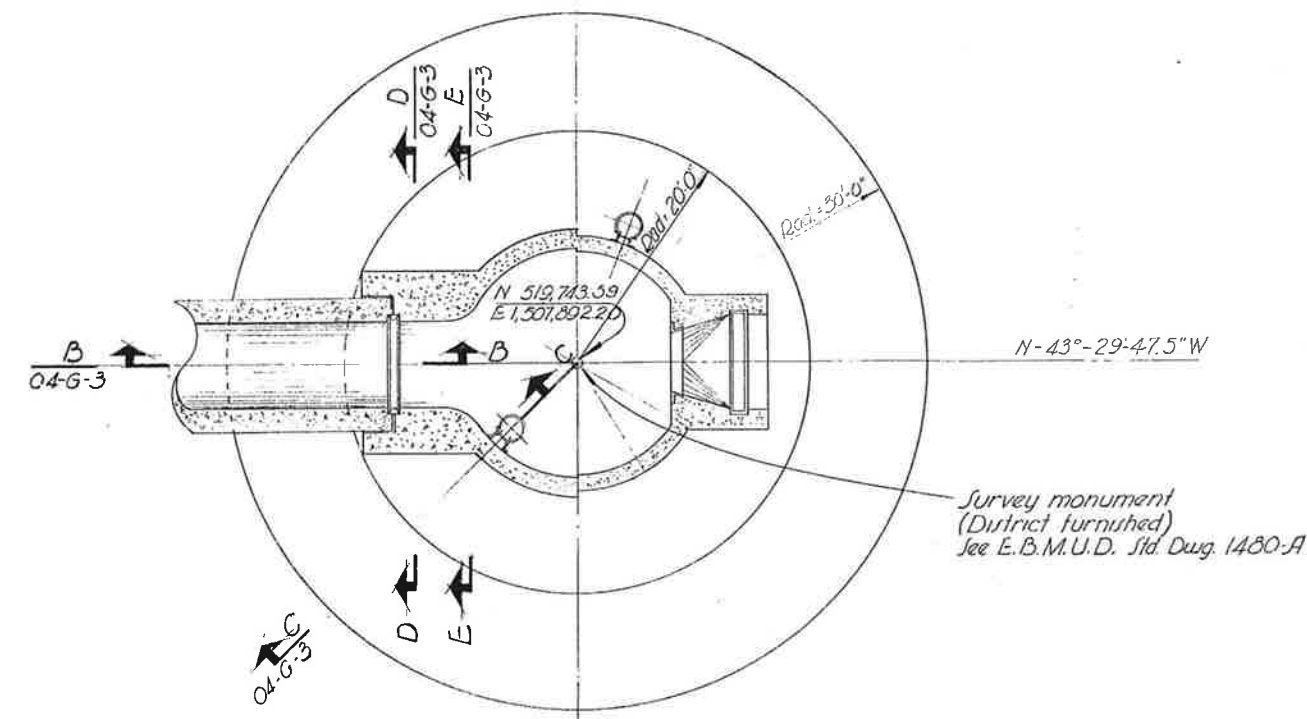
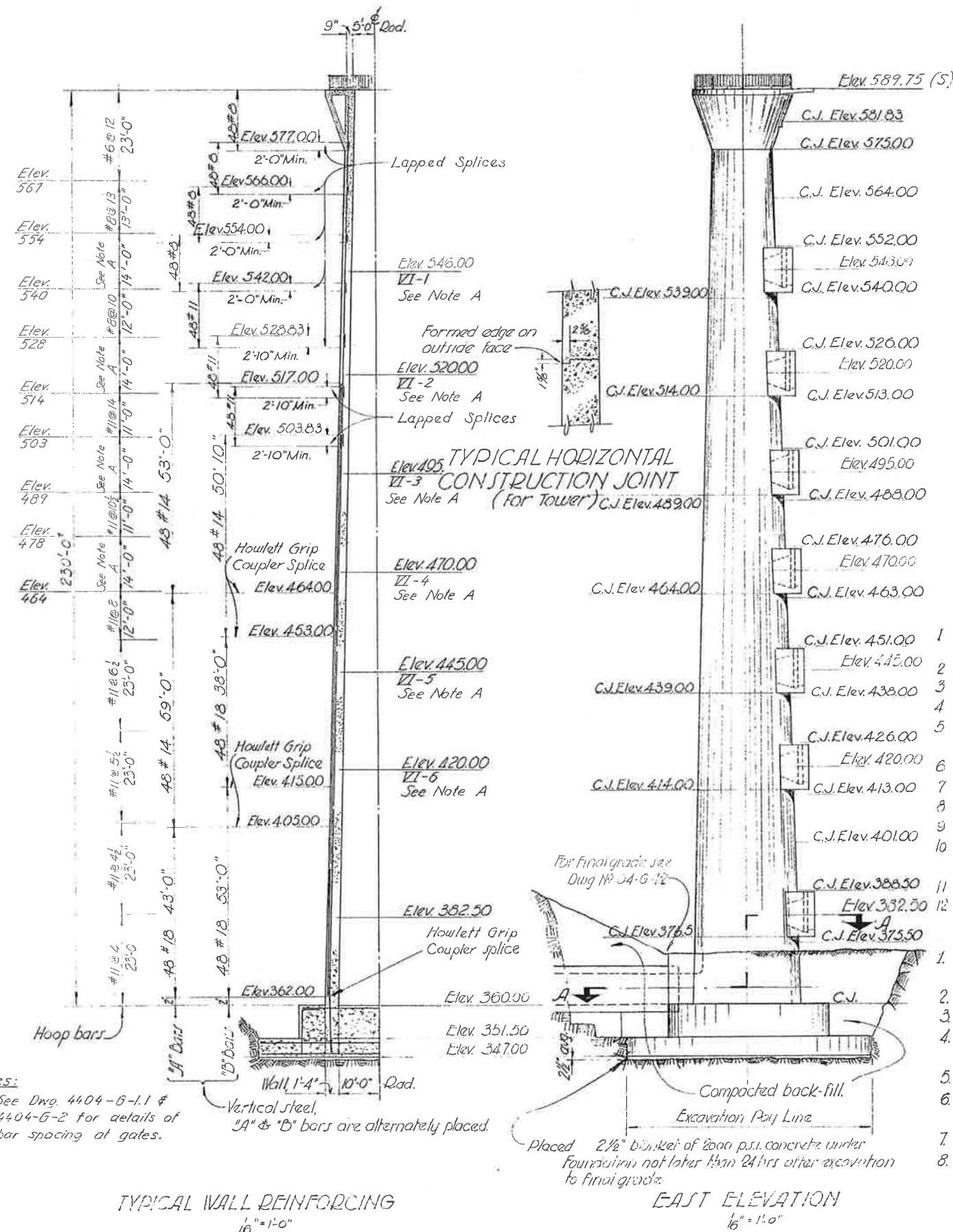




GENERAL NOTES

- 1 Unless otherwise noted, all ferrous metals (except stainless steel & reinforcing bars) below elev. 581.00 in Outlet Tower & elev. 602.50 in Valve Access shaft shall be coated with tarset. Coating shall be shop applied wherever practicable & touched up in the field.
- 2 All reinforced concrete construction shall be in accordance with Section 3 of the specifications.
- 3 Concrete shall have a minimum compressive strength of 3000 p.s.i. @ 28 days unless otherwise noted.
- 4 Reinforcing steel shall be deformed bars of intermediate grade.
- 5 Reinforcing bars in unformed surfaces against ground shall have 3" concrete cover. All other bars shall have 2" cover unless noted otherwise.
- 6 Spliced bars shall lap a minimum of 24 bar diameters but not less than 12"
- 7 Right angled hooks shall have a radius of bend of 4 bar diameters plus an extension of 12 bar diameters
- 8 All exposed corners shall be chamfered 1/4"
- 9 All structural steel shall be in accordance with the current A.I.S.C. Specifications & A.S.T.M. Spec. A-7
- 10 All exposed structural steel & embedded steel members shall be galvanized as outlined in the specifications unless otherwise noted.
- 11 For water stops see specifications.
- 12 Verify all equipment dimensions with Vendors Drawings or existing equipment.

OUTLET TOWER NOTES

- 1 All concrete above elevation 360.00 shall develop f_c of 4000 p.s.i. in 28 days. Below elev. 360.00 conc. shall develop f_c of 3000 p.s.i. in 28 days unless noted.
- 2 All splices in hoop bars shall be staggered 120°
- 3 Minimum cover of reinforcing shall be 2" unless noted.
- 4 All anchor bolts & other embedded metal must be kept 2" minimum clear of all reinforcing steel & have no metal to metal contact with reinforcing steel
- 5 Welds in reinforcing steel where shown shall develop full strength of the bar.
- 6 For locations of pipe supports & electrical inserts see Dugs 04-G-8, 04-G-10, 04-G-11, & 04-G-13.
- 7 No vertical construction joints shall be allowed unless shown on dugs.
- 8 Elevations indicated by (S) were established from survey of June 1965. Ref. EBMUD precise level volumes 65, 139, 146, 147 & F.B. 3449-A.



Notes:
A. See Dwg. 4404-G-1.1 & 4404-G-2 for details of bar spacing at gates.

TYPICAL WALL REINFORCING
1/16" = 1'-0"

EAST ELEVATION
1/16" = 1'-0"

KAISER ENGINEERS
DIVISION OF HENRY J. KAISER COMPANY
OAKLAND, CALIFORNIA

APPROVED

R. E. NIELSEN
CHIEF ENGINEER, R.E. No. 248

EAST BAY MUNICIPAL UTILITY DISTRICT
OAKLAND, CALIFORNIA

BRIONES DAM
OUTLET TOWER

PLAN & ELEVATIONS

DESIGNED BY: R.R. FLORENCE
DRAWN BY: E.A. O'DELL
CHECKED BY: E.F. NIELSEN
CORROSION CHECK BY:
PROJECT ENG. 4404-G-1

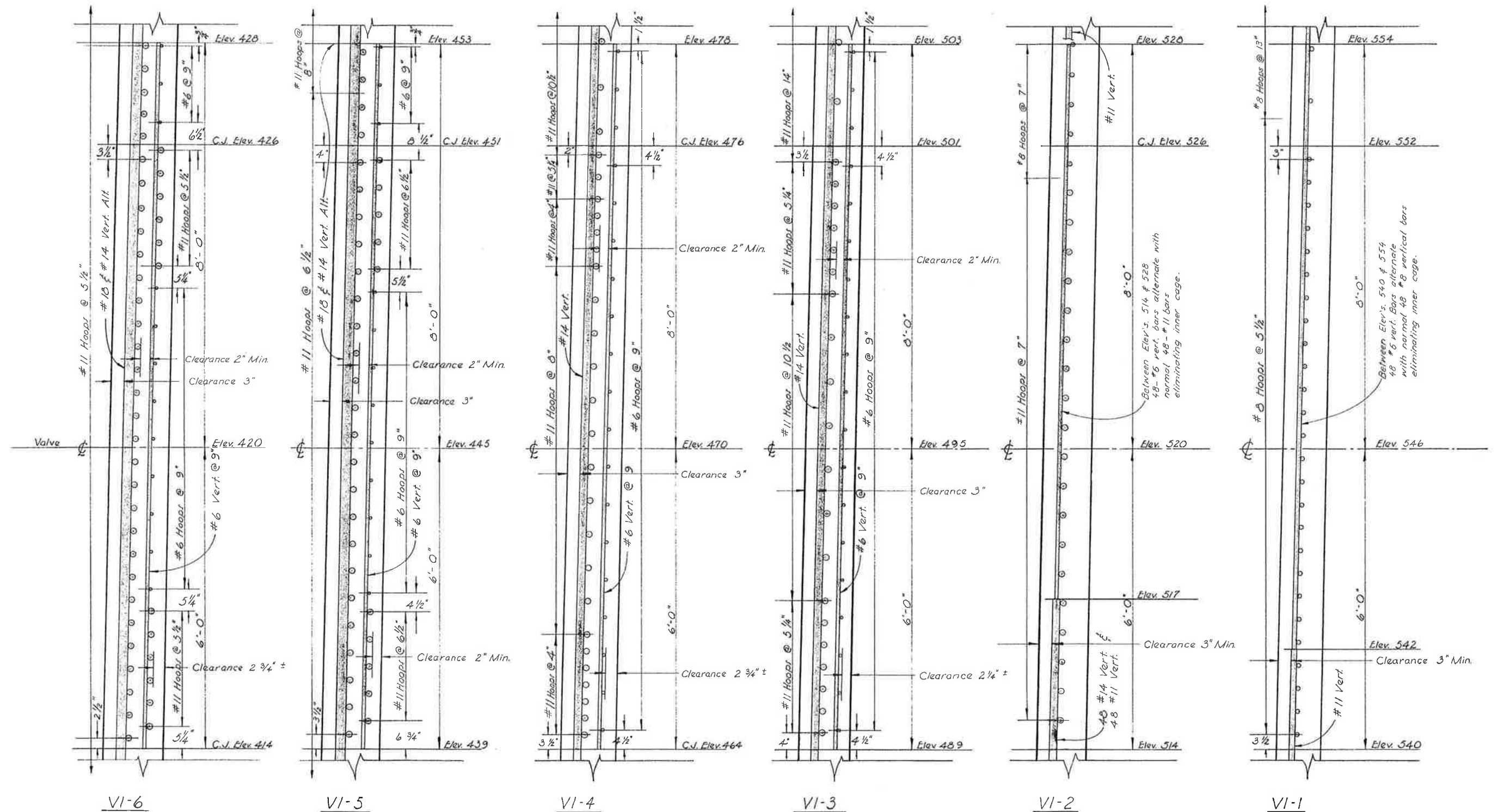
MANAGER: J. W. Searles
DESIGN ENG. 4404-G-1
MANAGER: J. W. Searles
DESIGN ENG. 4404-G-1

STRUCTURE OR ZONE DESIGNATION: 521
SCALE: As shown
DATE: 3-1-66

4404-G-1



NO.	DATE	REVISION
1	1-15-65	Revised As-Built T.G. 4404-G-1



APPROVED 
CHIEF ENGINEER R.E. NO. 909

DESIGNED BY	KAISER ENGR.
DRAWN BY	T.A. GRIMES
CHECKED BY	R.E. MOHAGEN
CORROSION CHECK BY	
PROJECT ENGR.	W.B. BALL
RESIDENT ENGR.	
MANAGER SPECIAL	
PROJECTS CONST.	J.R. McLean
MANAGER	
DESIGN ENGR.	R.E. Mohagen
MANAGER	
WATER PROD. & DIST.	W.B. Ball

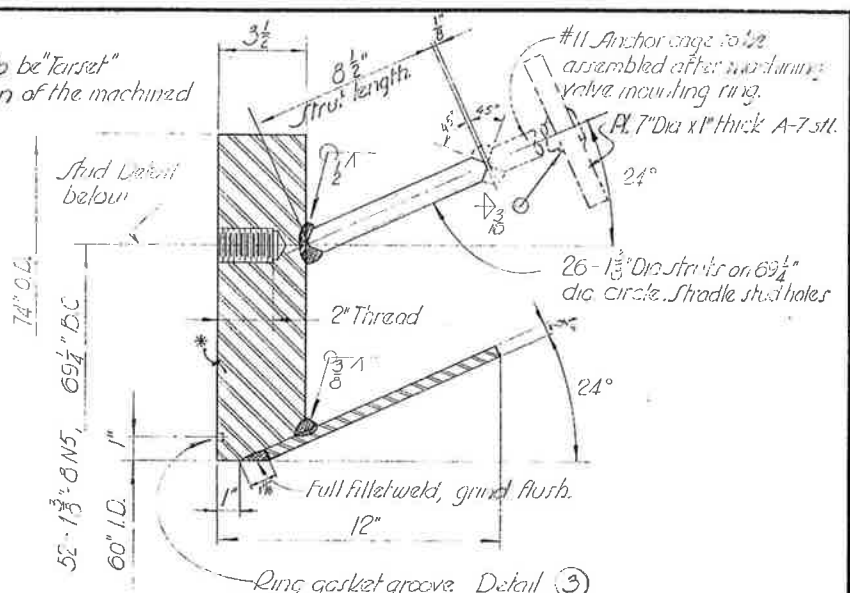
EAST BAY MUNICIPAL UTILITY DISTRICT
OAKLAND, CALIFORNIA

BRIONES DAM
OUTLET TOWER
ADDITIONAL REINFORCEMENT
AT GATES

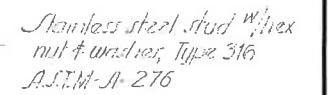
STRUCTURE OR ZONE DESIGNATION
SCALE 1" = 1'
DATE 4-19-65

4404-G-1.1

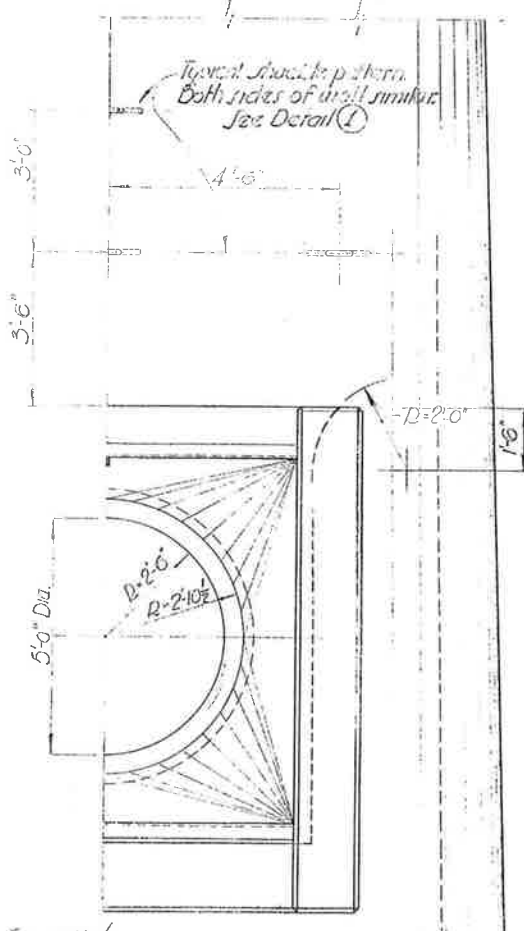
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DETAIL (2)
3"=1'-0"



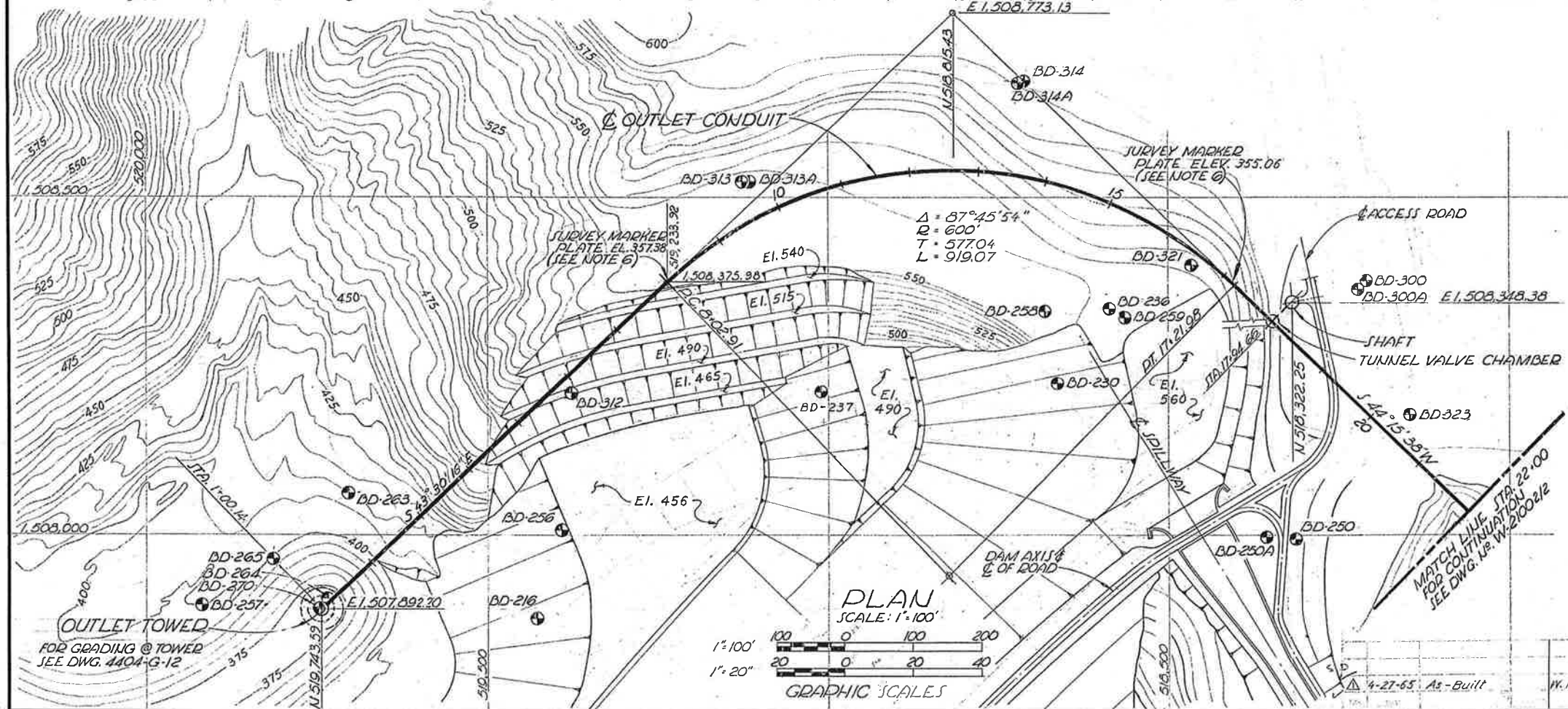
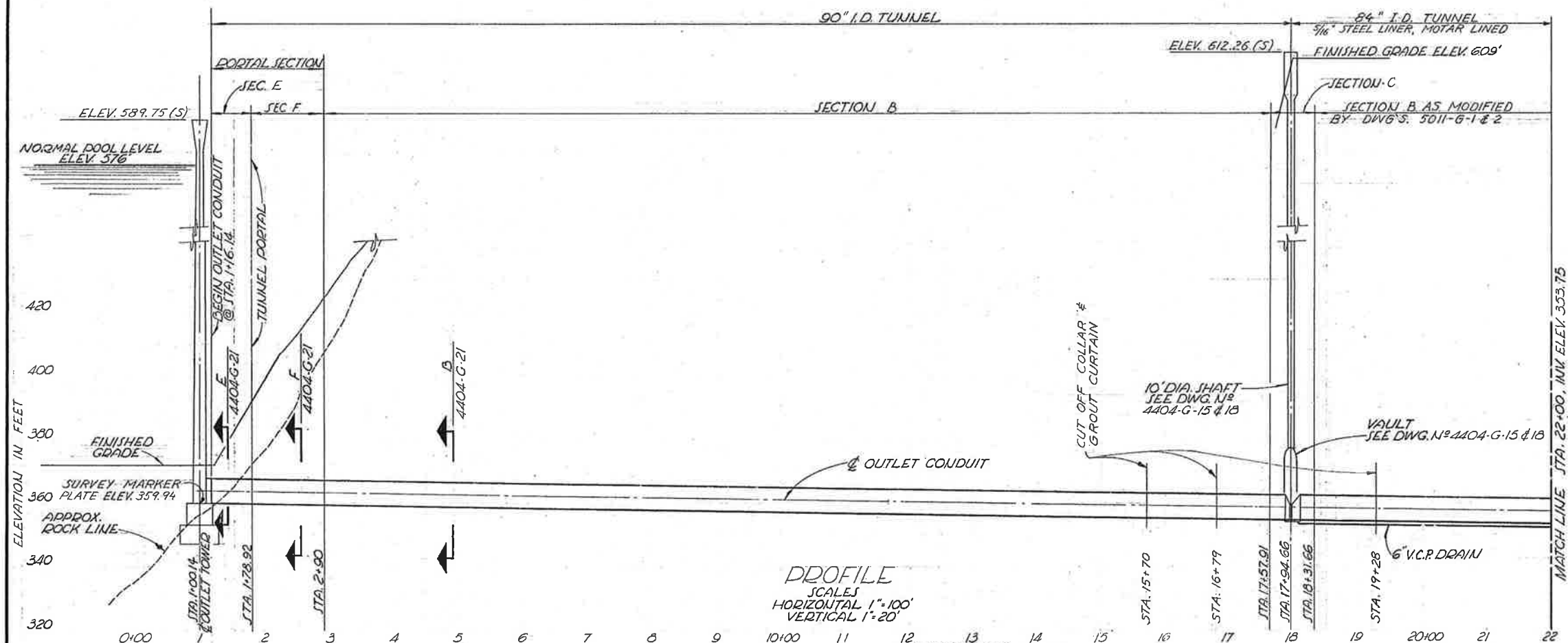
DETAIL 4
Coat w/ "Tarset"
3"-1'-0"



NOTES:

1. For General Notes see 04-G-1.
2. Contractor to furnish and install jumper cable of 2' long, $\frac{1}{4}$ " ϕ , 7XT S.S. wire rigging rope. (Tiger Brand - U.S. Steel Corp. or equal.) Weld rope ends to $\frac{1}{4}$ " X $2\frac{1}{2}$ " X $\frac{1}{8}$ " S.S. end connectors drilled for $\frac{5}{8}$ " stud. Provide S.S. Nuts and Washers. (Seven jumper cables req'd.)

KAISER ENGINEERS DIVISION OF HENRY J. KAISER COMPANY OAKLAND CALIFORNIA	
APPROVED:  CHIEF ENGINEER R. E. NO. 888	
EAST BAY MUNICIPAL UTILITY DISTRICT OAKLAND, CALIFORNIA	
BRIONES DAM OUTLET TOWER SECTIONS	
STRUCTURE OR LINE DESIGNATION SCALE AS SHOWN DATE 2-24-50	4404-G-2



GENERAL NOTES:

- ELEVATIONS ARE BASED ON THE U.S.C. & G.S. MEAN SEA LEVEL DATUM OF 1929.
- REFERENCE DWG. FOR TOPOGRAPHY IS:
E.B.M.U.D. BRIONES DAM SITE AREA DH-4613-40
& FINAL CROSS SECTIONS BORROW AREA I & III.
- CONTOUR INTERVAL 5'
- COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM (ZONE III). A GRID FACTOR OF 0.9999079 HAS BEEN APPLIED. ALL DISTANCES SHOWN ARE FIELD DISTANCES.
- FOR BORING LOGS SEE DWG'S:
4401-G-4
4401-G-6
4401-G-7
4401-G-9 THRU 4401-G-12.
- SURVEY MARKER PLATES PER E.B.M.U.D. STD. DWG. NO. 1480-A ARE PLACED IN THE TUNNEL INVERT @ STA. PC 8+02.91, STA. PT. 17+21.98 & THE TUNNEL PORTALS.
- ELEVATIONS INDICATED BY (S) WERE ESTABLISHED FROM PRECISE LEVEL SURVEY OF JUNE 1965. REF. EBMUD PRECISE LEVEL BOOKS VOL. 65, 139, 146 & 147, FIELD BOOK 3449-A.



KAISER ENGINEERS
DIVISION OF HENRY J. KAISER COMPANY
OAKLAND, CALIFORNIA

APPROVED: *[Signature]*
CIVIL ENGINEER E.C. #12300

DESIGNED BY K. GO
DRAWN BY P. DAMMUSSEN
CHECKED BY S. BLAY, K. GO
COORDINATION CHECK BY
PROJECT ENGR. W. B. BAY
BY 4/2/68 3-4-68
MANAGER
DESIGN ENGR. *[Signature]*
MANAGER WATER PROD. & DIST. *[Signature]*

EAST BAY MUNICIPAL UTILITY DISTRICT
OAKLAND, CALIFORNIA

BRIONES DAM
OUTLET WORKS PLAN & PROFILE

STA. 1+14.29 TO 22+00

STRUCTURE OR ZONE DESIGNATION 521

SCALE AS SHOWN

DATE 3-4-60

W-2100-1/2