*California Department of Transportation*
*Division of Maintenance*
***Structure Maintenance and Investigations***

---

**B**ridge

**I**nspection

**R**ecords

**I**nformation

**S**ystem

---

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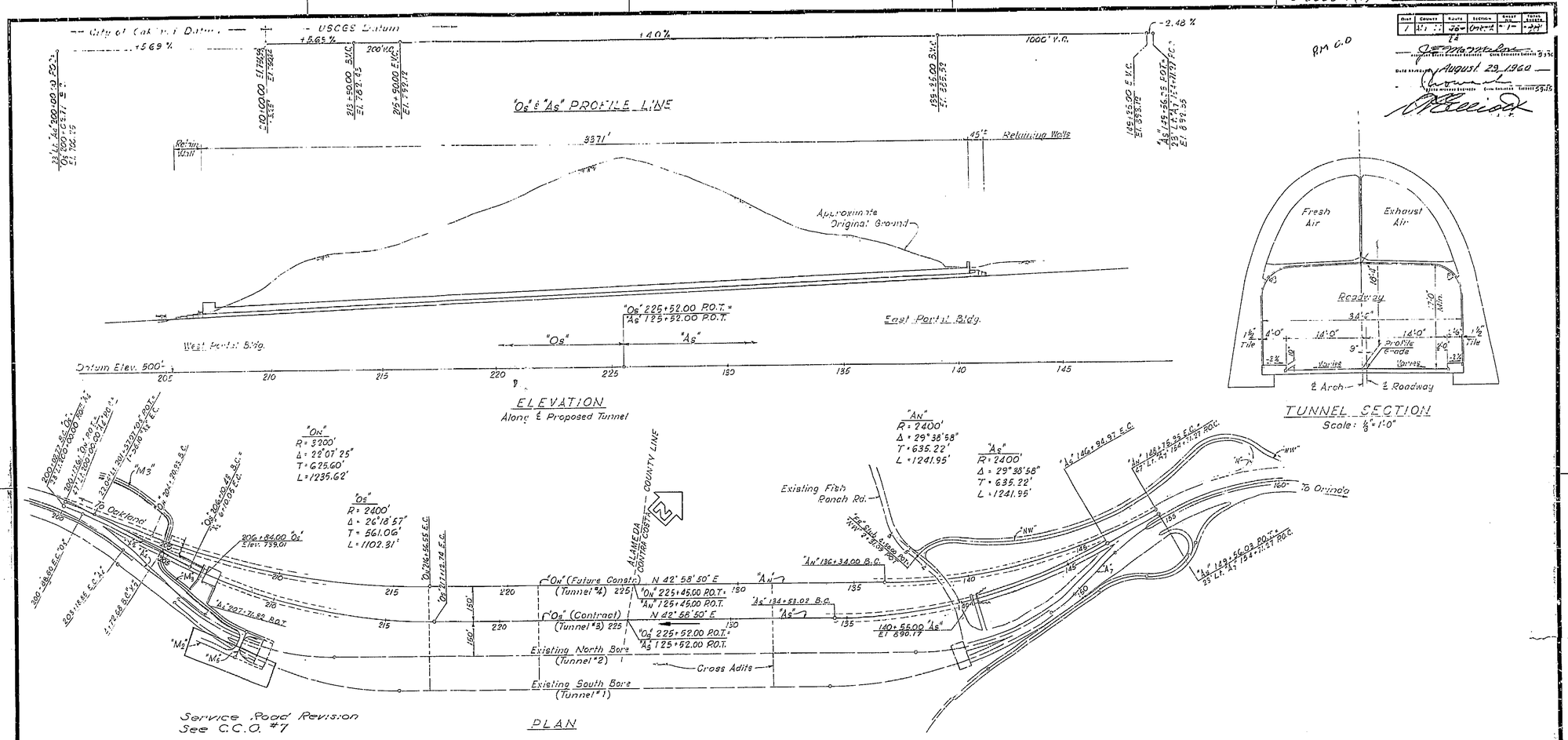
U-0039-1(i)

| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 41 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 1 | Alm. | 76 | Oakland | 1 | 24 |

August 29, 1960




THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29, 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: VG DATE: 6-7-65

**AS BUILT PLANS**
Contract No. 61-4T13C13
Date Completed
Document No. 4000 7510

For Alignment Data not shown see Road Plans
For General Notes see "Standard Details #2 (Box Girder)" sheet.

BRIDGE DEPARTMENT
··· DESIGN SECTION ··· **8**
Project Designer W. A. Chesney
Chief Designer [signature]

| | | | |
|---|---|---|---|
| DESIGN | By W. A. Chesney 7-58 | Checked | R. Williams 2-60 / R. J. Rodgers 2-60 |
| DETAILS | By A. L. Pawlowski 7-58 | Checked | R. J. Rodgers 2-60 |
| QUANTITIES | By V. Smith 2-60 | Checked | E. G. Jones 2-60 |
| SPECIFICATIONS | By | Plans and Items Compared | |
| Approval Recommended | By [signature] Engineer of Design | Civil Engr. License No. 6729 | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

61-4T13C13

CALDECOTT TUNNEL
(formerly BROADWAY TUNNEL)
LOC. N. OF & ADJACENT TO THE EXISTING BROADWAY LOW LEVEL TUNNEL NEAR THE E. CITY LIMIT OF OAKLAND & THE ALAMEDA, CONTRA COSTA COUNTY LINES

GENERAL PLAN

Except As Noted SCALE 1" = 200'-0" | BRIDGE 23-5L | FILE | DRAWING C-5978-1

I.L.: H20-S16-44 and Alternative

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

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U-0039-1(1)

| FED. ROAD DIST. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF | | 42 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 1V | Ala.CC | 75-Oak.A | -2 | 2 | 85 |

Date completed August 29 1960

INDEX TO PLANS

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|---|---|
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| 2. | INDEX TO PLANS |
| 3. | TYPICAL SECTION |
| 4. | TUNNEL SUPPORTS |
| 5. | TUNNEL CROSS ADITS |
| 6. | PORT HOLE DETAILS |
| 7. | TUNNEL DRAINAGE LAYOUT |
| 8. | TUNNEL PAVING DETAILS |
| 9. | TILE DETAILS |
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| 11. | WEST PORTAL BUILDING - GENERAL PLAN |
| 12. | EAST PORTAL - FOUNDATION PLAN |
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| 31. | PLAN AT ROOF |
| 32. | ROOF DETAILS |
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S.! Grid Grades

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| 37. | FRONT & REAR WALLS REINFORCING DETAILS |
| 38. | DOOR DETAILS |
| 39. | WINDOW DETAILS |
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| 68. | SLAB DETAILS NO. 3 |
| 69. | SLAB DETAILS NO. 4 |
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S.! Revisions to Abutment #8

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|---|---|
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| 87. | WEST PORTAL BUILDING & RETAINING WALLS 1, 2 & 3 |
| 88. | WEST PORTAL RETAINING WALL NO. 4 |

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 19 1966 AS SUBMITTED BY RESIDENT ENGINEER [illegible] DRAWINGS CORRECTED BY [illegible] DATE: 8-7-65

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: [illegible]
Chief Designer: [illegible]

| | | | |
|---|---|---|---|
| DESIGN | By [illegible] 5-60 | Checked [illegible] 5-60 | |
| DETAILS | By [illegible] 5-60 | Checked [illegible] 5-60 | |
| QUANTITIES | By [illegible] 5-60 | Checked [illegible] 5-60 | |
| SPECIFICATIONS | By | Plans and Spec. Checked | |

Approval Recommended by [illegible] Engineer of Design — Civil Engr. License No. 5729

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL

INDEX TO PLANS

| SCALE | NONE | BRIDGE | 26-156 | FILE | | DRAWING | C-5978-2 |
|---|---|---|---|---|---|---|---|

42

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING NO. P- 5978

63

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE [illegible] TITLE [illegible]

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SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

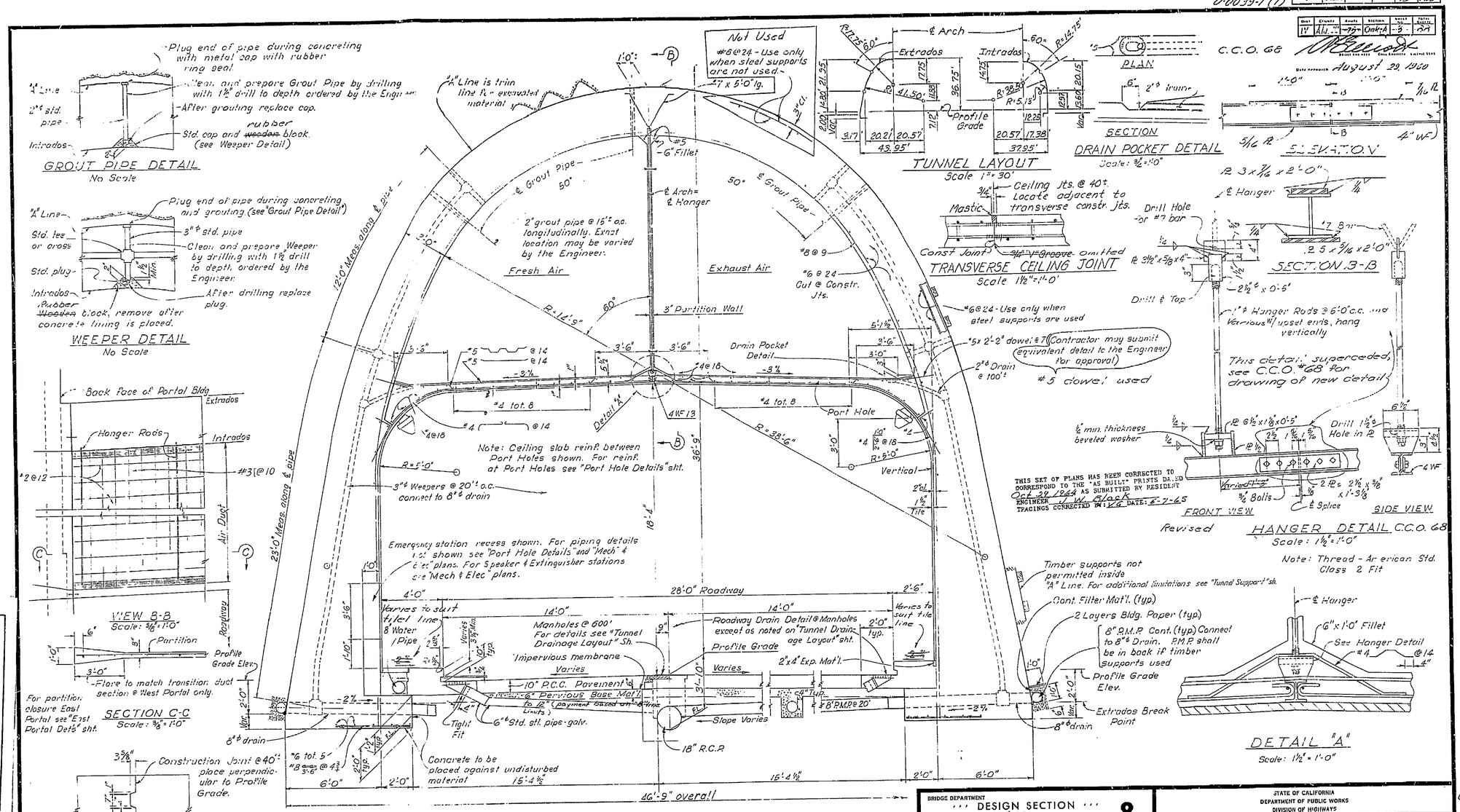
| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 43 | 163 |

U-0039-1 (1)

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 1V | All. | 75 | Oak-A | 3 | 84 |

C.C.O. 68

Date approved August 29, 1960




AS BUILT PLANS
Contract No. 61-471313
Date Completed
Document No. 4000 2510

43

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: W. W. Chesney
Chief Designer: Alvin L. Aymbach

| | | | |
|---|---|---|---|
| DESIGN | By W. W. Chesney 9/57 | Checked | 2-60 |
| DETAILS | By D. L. Barr 1-4-58 | Checked | 2-60 |
| QUANTITIES | By D. F. Smith 2-60 | Checked | 2-60 |
| SPECIFICATIONS | By | Checked | |

Approval Recommended by: Engineer of Design
Civil Engr. License No. 6729

BX 235

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL

TYPICAL SECTION

SCALE As Shown | BRIDGE 28-15L | FILE | DRAWING D-5978-3

PREL. DRAWING No. P-5978

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

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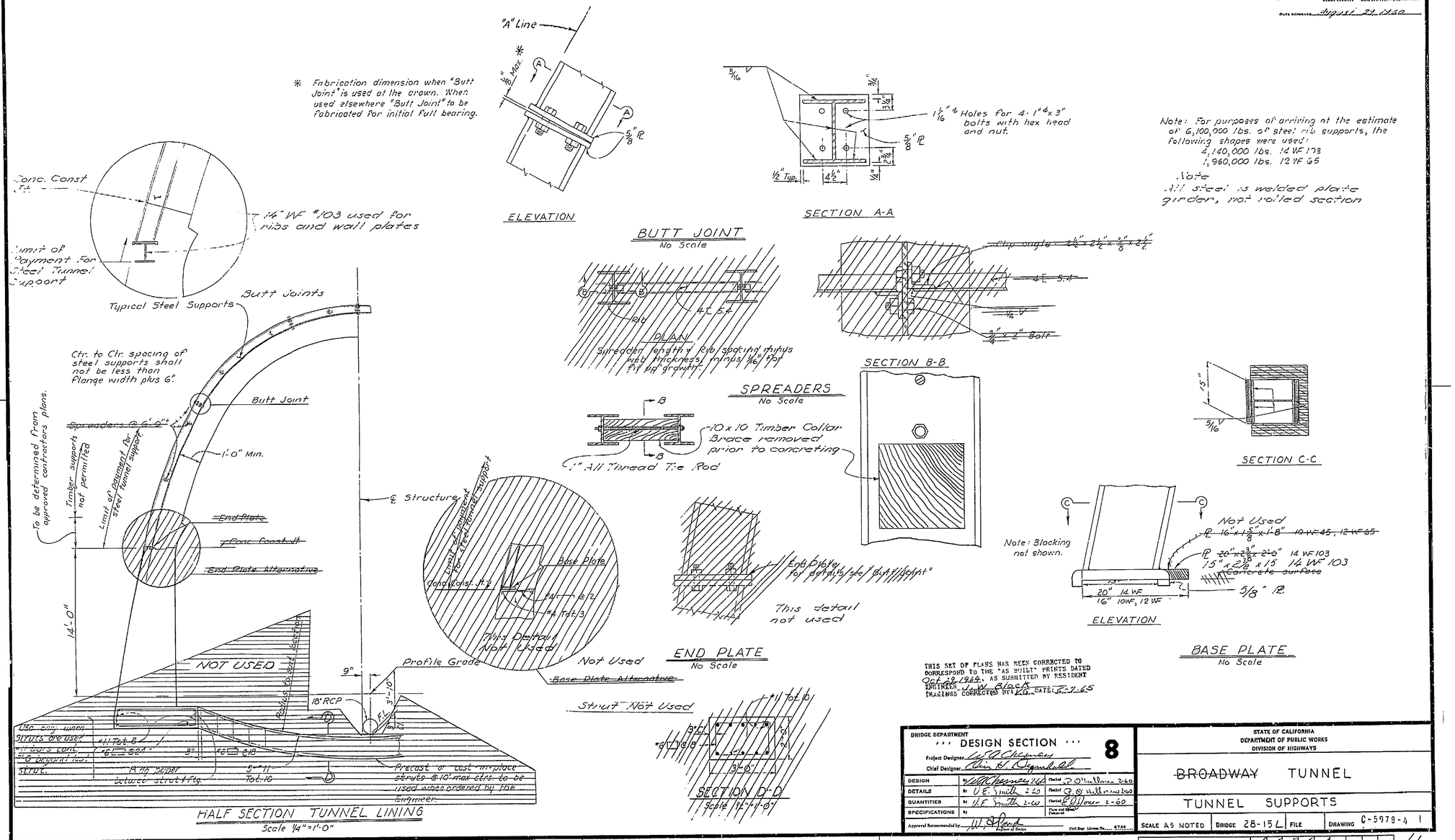
| FED. ROAD DIV. NO. | STATE | F. A. PROJECT No. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 44 | 103 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 1-V | Ala. | 1-195 | Oakh. | 44 | 83 |

Robert Beckett — Civil Engineer — Greene Corp.

Date approved August 23, 1960

* Fabrication dimension when "Butt Joint" is used at the crown. When used elsewhere "Butt Joint" to be fabricated for initial full bearing.




AS BUILT PLANS
Contract No. 61-417213
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 12 1966. AS SUBMITTED BY RESIDENT ENGINEER W. W. Black
TRACINGS CORRECTED BY E.O. DATE: 7-7-65

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8

Project Designer W. A. Chipman
Chief Designer Alin K. Ingersoll

| | | | |
|---|---|---|---|
| DESIGN | By W. A. Chipman 2-60 | Checked J. O'Halloran 2-60 |
| DETAILS | By V. E. Smith 2-60 | Checked J. O'Halloran 2-60 |
| QUANTITIES | By V. E. Smith 2-60 | Checked E. Wilmore 2-60 |
| SPECIFICATIONS | By | Plans and Memo Compared |

Approval Recommended by W. A. Chipman — Project Engineer of Design — Civil Engr. License No. 6788

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL

TUNNEL SUPPORTS

SCALE AS NOTED | BRIDGE 28-15 L | FILE | DRAWING C-5979-4 1

BX235 Disregard prints bearing earlier numbers

PREL. DRAWING No. P-5978 | 1/26/66 | 6/1 | 6/7 | 6/9 | 6/12 | 8/16 | 66

44

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

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SCALE 1" = 50' SCALE 1" = 20' SCALE 1" = 20'
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| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 45 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
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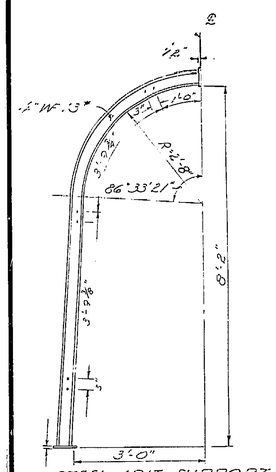
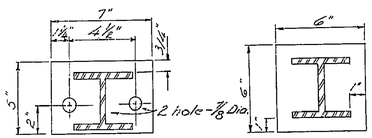
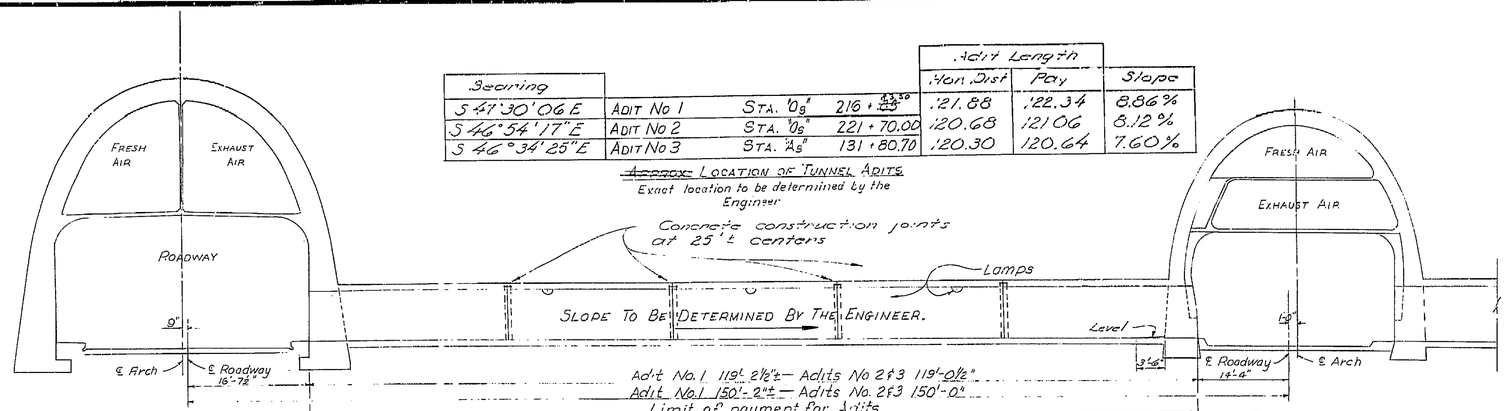
Date Approved August 24, 1959




STEEL ADIT SUPPORT




BUTT ℞ DETAIL  FOOT ℞ DETAIL

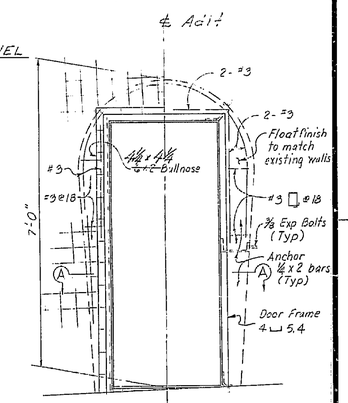



| Bearing | | | Adit Length | | |
|---|---|---|---|---|---|
| | | | Hor. Dist | Pay | Slope |
| S 41°30'06 E | Adit No 1 | Sta. 0 9/8" 216 + 43.50 | 121.88 | 122.34 | 8.86% |
| S 46°54'17"E | Adit No 2 | Sta. 0 9/8" 221 + 70.00 | 120.68 | 121.06 | 8.12% |
| S 46°34'25"E | Adit No 3 | Sta. 2 1/8" 131 + 80.70 | 120.30 | 120.64 | 7.60% |

~~Approx~~ Location of Tunnel Adits
Exact location to be determined by the Engineer

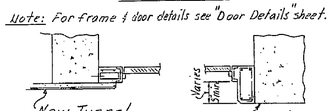
LONGITUDINAL SECTION THRU CROSS ADIT
Scale 1/8" = 1'-0"

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510



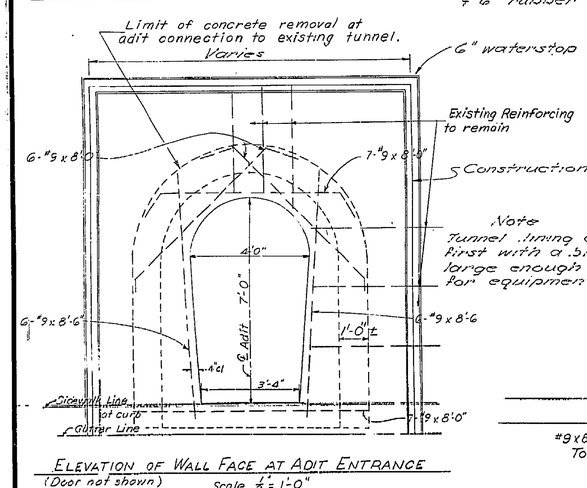

ELEVATION

Note: For frame & door details see "Door Details" sheet.

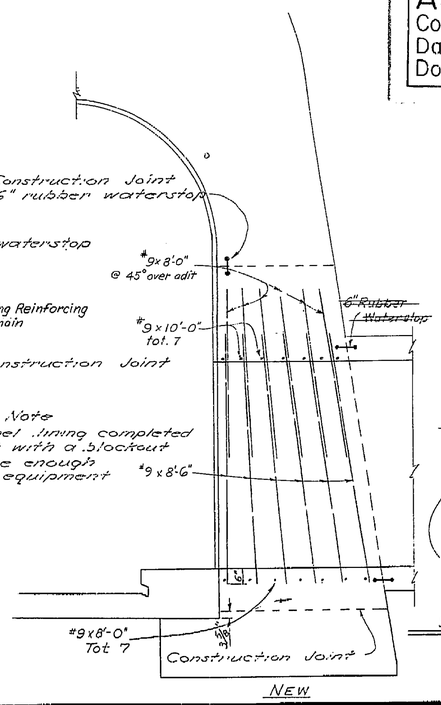


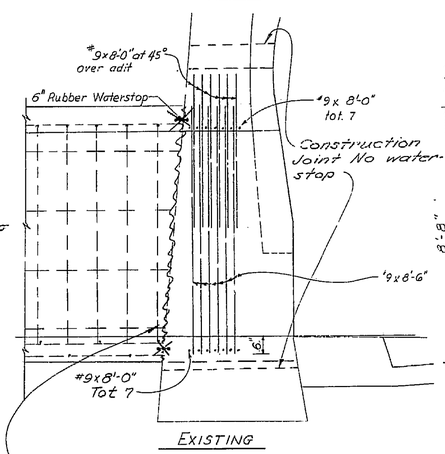

SECTION A-A

DETAIL OF ADIT ENTRANCES
Scale: 3/4" = 1'-0"



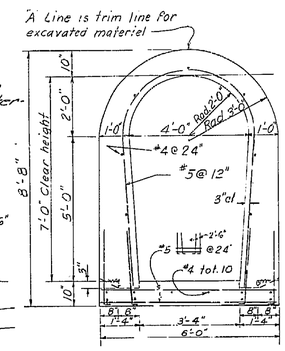

ELEVATION OF WALL FACE AT ADIT ENTRANCE
(Door not shown) Scale 1/2" = 1'-0"




Construction joint & rubber waterstop omitted.

SECTIONS THRU ADIT ENTRANCES
Scale 1/2" = 1'-0"




SECTION THRU ADIT
Scale 1/2" = 1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: CO DATE: 6-8-65

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8

| | | | |
|---|---|---|---|
| Project Designer | W P Chesney | | |
| Chief Designer | Chas. H. Ostendorf | | |
| DESIGN | W P Chesney 10-58 | Checked | R O Hallorans 2-60 |
| DETAILS | L J Fong 10-58 | Checked | P. Gillis 2-60 |
| QUANTITIES | L.E. Smith 2-60 | Checked | R O Hallorans 2-60 |
| SPECIFICATIONS | | Checked | |
| Approval Recommended by | | Date of Approval Required | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL

TUNNEL CROSS ADITS

| SCALE AS SHOWN | BRIDGE 28-15 L | FILE | DRAWING 0-5918-5 |
|---|---|---|---|

BX235 Disregard prints bearing earlier numbers

PREL. DRAWING No. P-5978

45

67

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

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SCALE 1" = 50'
SCALE 1" = 20'
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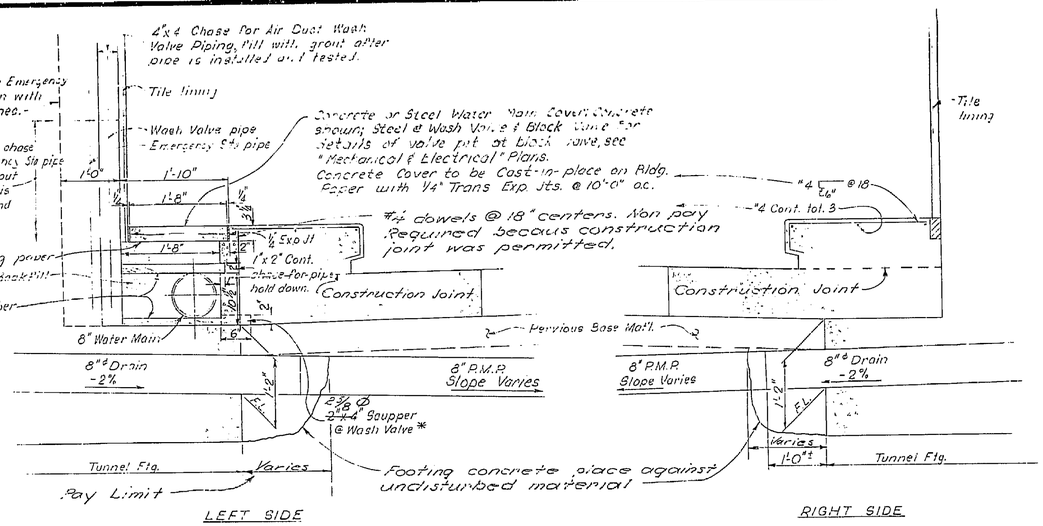
| FED. ROAD DIV. No. | STATE | F. A. PROJECT No. | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF | | 46 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | Ala Co | 75-Oak | A | 6 | 77 |

DATE APPROVED August 29 1960




LEFT SIDE

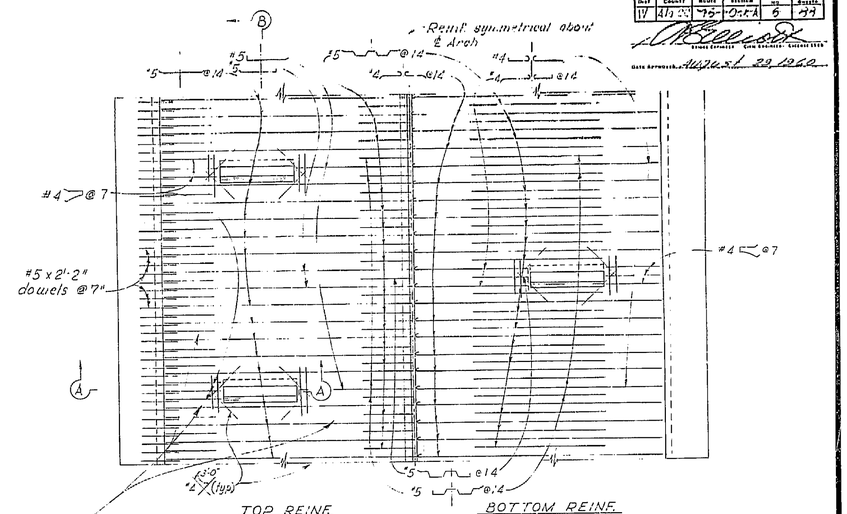
RIGHT SIDE

* Hole in Impervious Membrane @ Scuppers

CURB DETAILS

Scale: 1" = 1'-0"

For details not shown see "Typical Section" or "Mechanical & Electrical" plans

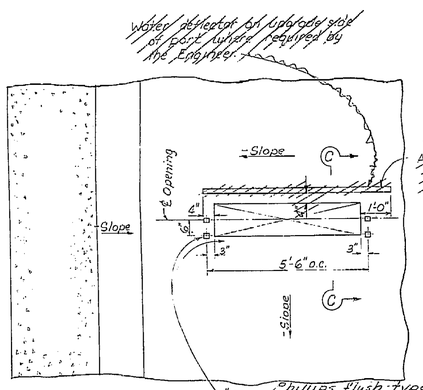



TOP REINF.

BOTTOM REINF.

PLAN AT AIR DUCT

Scale: None




SECTION C-C

No Scale

SECTION A-A

SECTION B-B

Note: Fresh air Port Holes shown, exhaust side similar.

PORT HOLE DETAILS

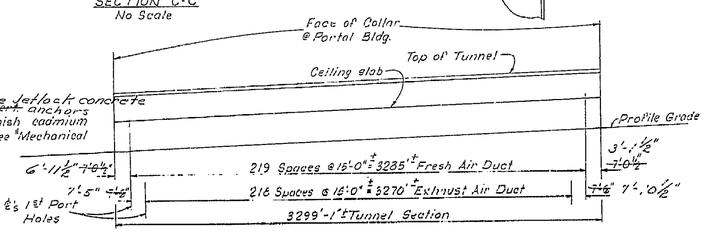
Scale: 1/2" = 1'-0"

Phillips flush type jetlock concrete threaded anchors. Min. length of threads 7/8. Furnish cadmium plated bolt for each insert. See "Mechanical Plans" for additional details.

PLAN

WATER DEFLECTOR AT PORT HOLE

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




PORT HOLE SPACING

No Scale

Measure along ℄ Roadway, place radially on curved alignment

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: W. R. Chaney
Chief Designer: Charles H. Dignwalt

| | | | |
|---|---|---|---|
| DESIGN | W. R. Chaney 5-59 | Checked R. O. Hillman 12-60 | |
| DETAILS | H. X. Tsang 5-59 | Checked R. O. Hillman 12-60 | |
| QUANTITIES | H. C. Smith 2-60 | Checked R. O. Hillman 2-61 | |
| SPECIFICATIONS | W | Checked Chief Engineer | |

Approval Recommended by: W. C. Hook, Bridge Engineer — Civil Eng. License No. 4728

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL

PORT HOLE DETAILS

SCALE As Noted | BRIDGE 28-15L | FILE | DRAWING C-5978-6

PREL. DRAWING No. P-5978

Disregard prints bearing earlier numbers

BX 2.35

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: DATE: 6-1-65

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

46

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

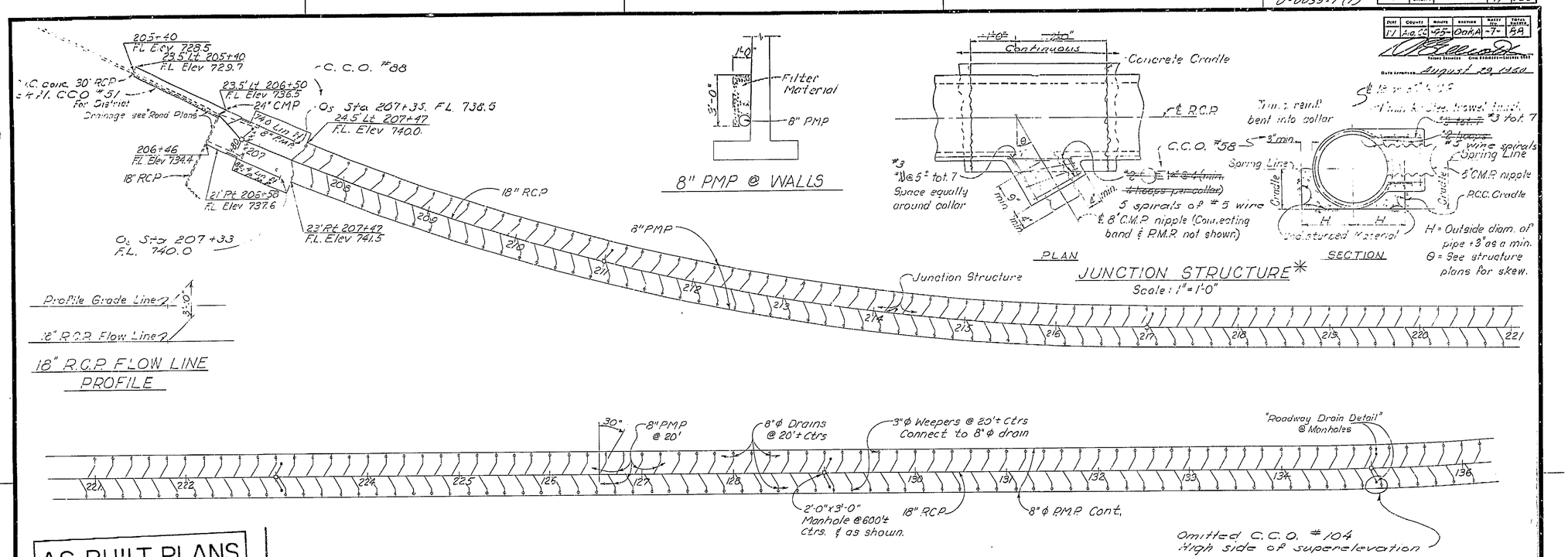
ClibPDF - www.fastio.com

U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 47 | 183 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | LOS ANGELES | 405 | OOR,A | 47 | 69 |

DATE APPROVED August 29, 1960

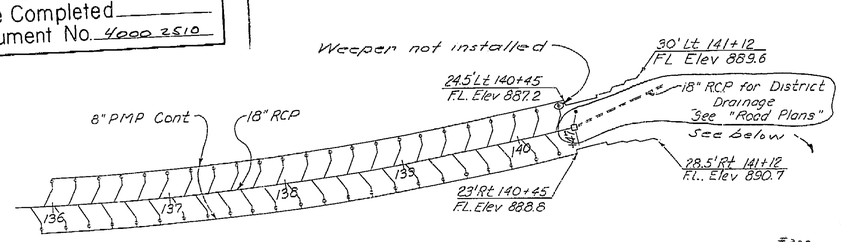


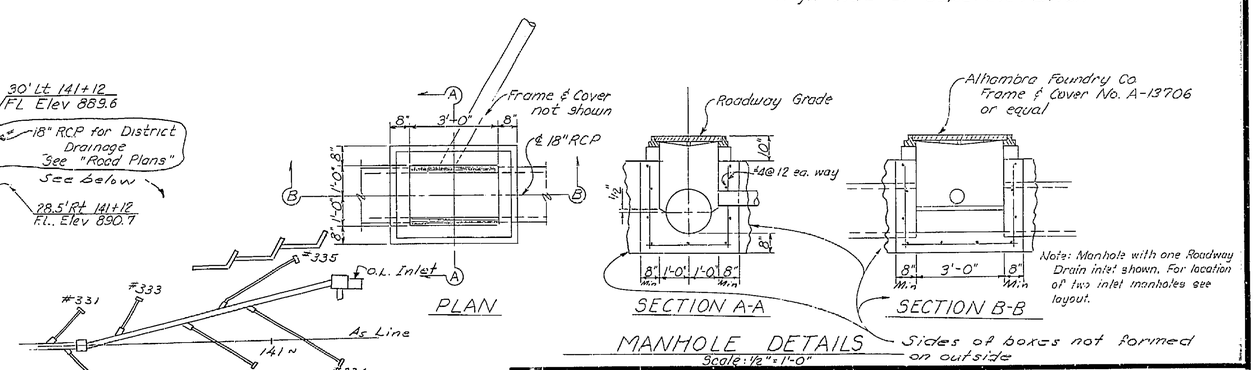


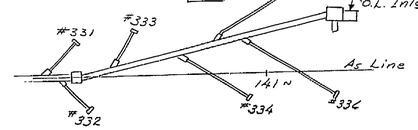


8" PMP @ WALLS




## * JUNCTION STRUCTURE NOTES

The opening in the R.C.P. to clear C.M.P. nipple by 2", cut normal to R.C.P. surface without damaging reinforcing. Transverse reinforcing shall be cut in center of opening and bent into collar.

The flow line of the intersecting lateral shall not be greater than 1" below the spring line of the main line.

If collar is not built integral with R.C.P., the contacting surface shall be painted with a bonding agent before placing concrete collar.

## LEGEND

- 3" ϕ Weepers
- See Mechanical Plans
- Manhole
- Roadway Drain

| Lengths | |
|---|---|
| 18" RCP | 68.44' |
| #331 | 12.60 |
| #332 | 12.60 |
| #333 | 11.90 |
| #334 | 22.30 |
| #335 | 25.53 |
| #336 | 33.30 |

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: _____ DATE: _____

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed _____
Document No. 4000 2510

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: W. W. Chenoweth
Chief Designer: Alan H. Regenhold

| | | | |
|---|---|---|---|
| DESIGN | W. W. Chenoweth 12-59 | Checked | |
| DETAILS | B. D. Jones 12-59 | Checked | |
| QUANTITIES | D. E. Smith 2-60 | Checked | |
| SPECIFICATIONS | | Final and Signs Prepared | |

Approved Recommended by: Bridge Engr. Civil Engr. License No. 6735

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

TUNNEL DRAINAGE LAYOUT

Except as noted SCALE 1" = 50' | BRIDGE 28-15L | FILE | DRAWING C-5978-7

PREL. DRAWING No. P-5978

P.X 235 Disregard prints bearing earlier numbers

47

69

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

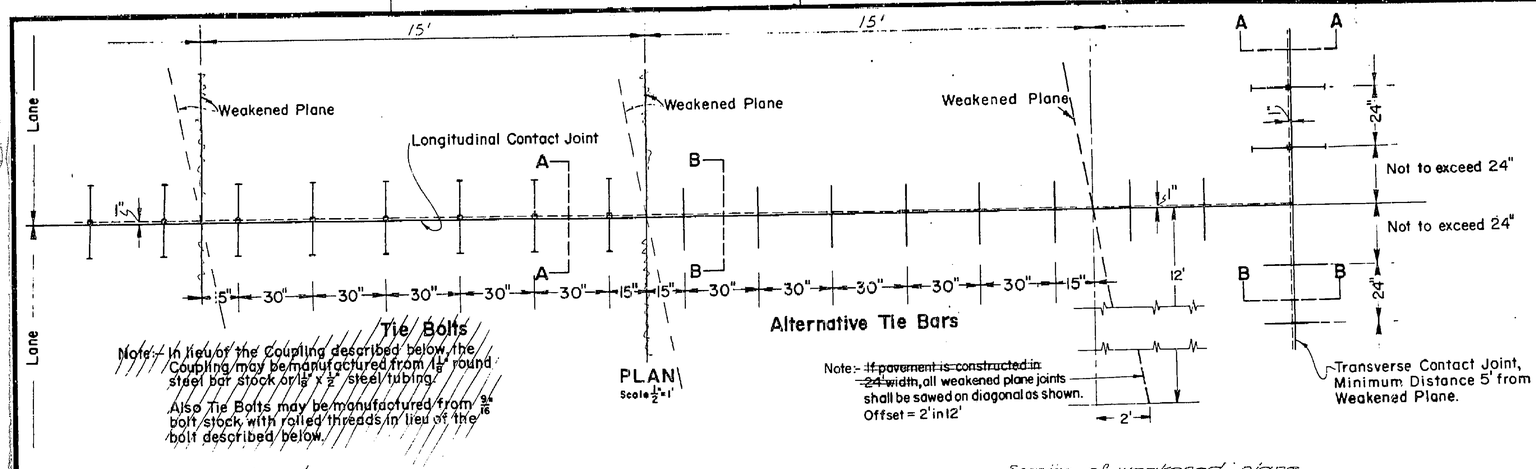
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

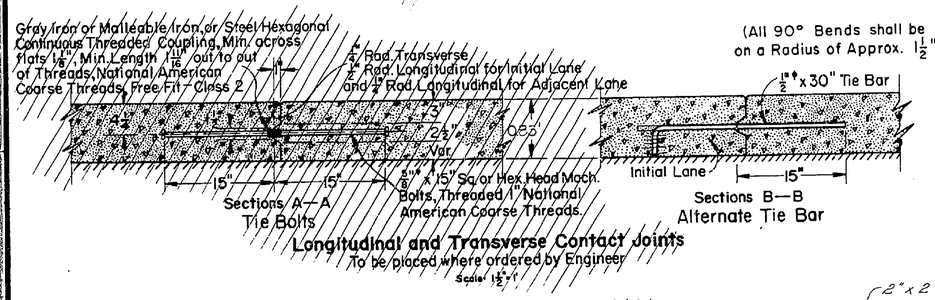
U-0039-1(1)

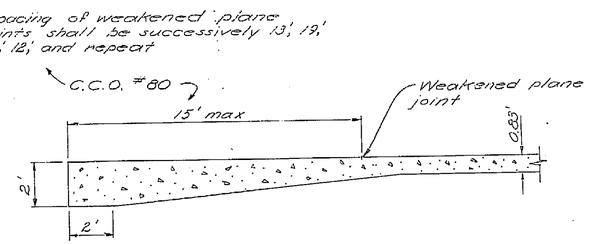
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FINAL ROAD | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 48 | 163 |

| DIST. | COUNTY | ROUTE | PREFIX | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 12 | Alg. | 96 | Dak. A | 19 | 20 |

Date approved: August 22 1950

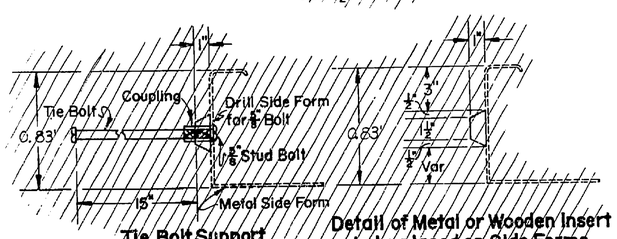


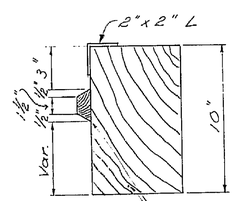




Pavement End Anchor Detail
("Os" 206 +31 to 206 + 46)

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




Wooden Forms

Note:- Paving details shown on this sheet apply between Sta. Os 206 ~~+83.33~~ +31.00 to Sta. As 141 ~~+11.00~~ +43.00.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1965, AS SUBMITTED BY RESIDENT ENGINEER F. W. Black
TRACINGS CORRECTED BY: 120 DATE: 5-9-65

AS BUILT PLANS
Contract No. 61-4T12C13
Date Completed
Document No. 4000 2510

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: W. M. Chenney
Chief Designer: Calvin H. Brownwell

| | | | |
|---|---|---|---|
| DESIGN | W. M. Chenney 12-59 | Checked | |
| DETAILS | 12-59 | Checked | |
| QUANTITIES | 2-60 | Checked | 2-60 |
| SPECIFICATIONS | | Plans and Estimate Prepared | |
| Approval Recommended by | Engineer of Design | Bridge Engineer No. 6729 | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

TUNNEL PAVING DETAILS

Scale As noted | Bridge 28-15L | File | Drawing C-5978-8

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978

48

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE_____ SIGNATURE_____ TITLE_____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

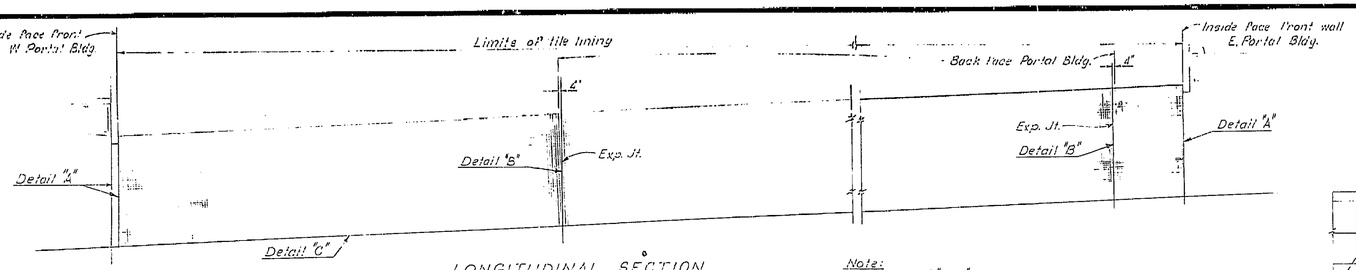
ClibPDF - www.fastio.com

U-0039-1 (1)

| FED. ROAD DIST. No. | STATE | PROJ. No. | FISCAL YEAR | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 49 | 163 |

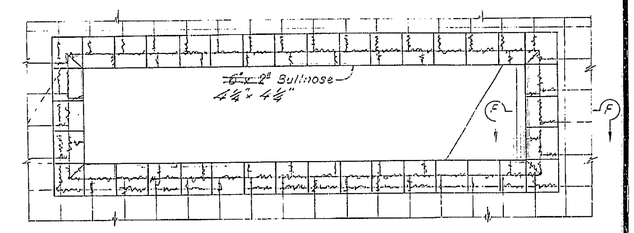
| DIST. | COUNTY | ROUTE | SECTION | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 4 | Ala. Co. | 26 | Oak. A | 9 | 84 |

August 29, 1960

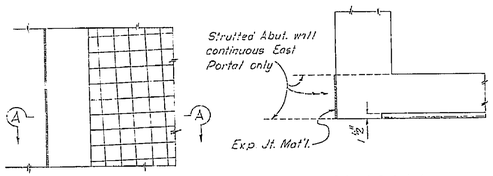



LONGITUDINAL SECTION
No Scale

Note:
All tile 4¼" x 4¼" except as noted.
Place tile parallel to top of curb.



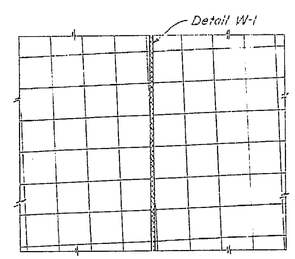

AT PORT HOLES




PART ELEVATION

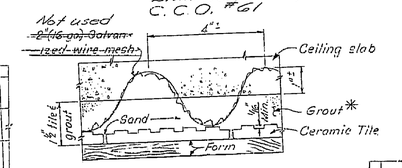
SECTION A-A

DETAIL "A"
Scale: 3/4" = 1'-0"
West end shown, East end similar except as noted

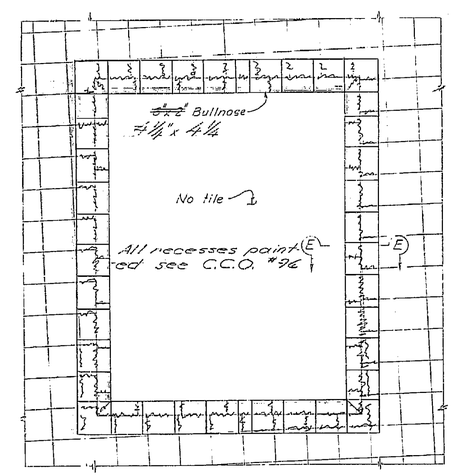



DETAIL "B"

Eliminated by C.C.O. #61

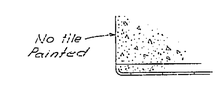



CEILING UPSIDE-DOWN TILE SETTING DETAILS
No Scale
* Grout 1 part cement 2½ to 3 parts sand-by volume

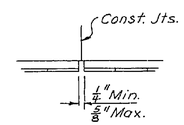



WALL OPENING
Opening shown for Fire Station, other openings similar. For location and details see other sheets.

SECTION F-F

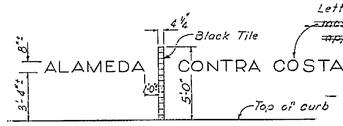



SECTION E-E



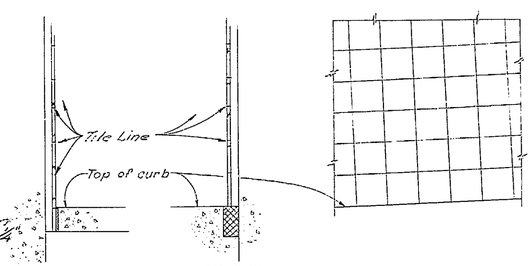

TILE JOINT

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510




Letters formed by ~~3/4" sq. mosaic tile (black) or as approved by the Engineer.~~ glazing letters in slack on 4¼" x 4¼" tiles

COUNTY LINE MARKER
No Scale
To be placed on both sides of roadway
Payment for mosaic tile to be included in the item for 4¼" x 4¼" Tunnel Tile




L.T. SIDE
SECTIONS
RT. SIDE
AT CURB
DETAIL "C"
ELEVATION

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1969, AS SUBMITTED BY RESIDENT ENGINEER J.W. Sloat
TRACINGS CORRECTED BY: DATE: 2-9-65

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: W.A. Chesney
Chief Designer: Alvin H. Reynolds

| | | | |
|---|---|---|---|
| DESIGN | By W.A. Chesney 8-59 | Checked | |
| DETAILS | By J.H. Barnsley 9-59 | Checked | |
| QUANTITIES | By J.E. Smith 2-60 | Checked | |
| SPECIFICATIONS | By | Check Sum Spec. Compared | |

Approval Recommended by: Bridge Engineer — Civil Engr. Lic. No. 6729

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

TILE DETAILS

Except as Noted SCALE 1½" = 1'-0" | BRIDGE 28-15L | FILE | DRAWING C-5978-9

BX 235

PREL. DRAWING No. P-5978 | 1/60 | 1/61 | 1/61 | 2/61 | 2/61 | 71

49

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ' ' '71 SIGNATURE TITLE

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MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

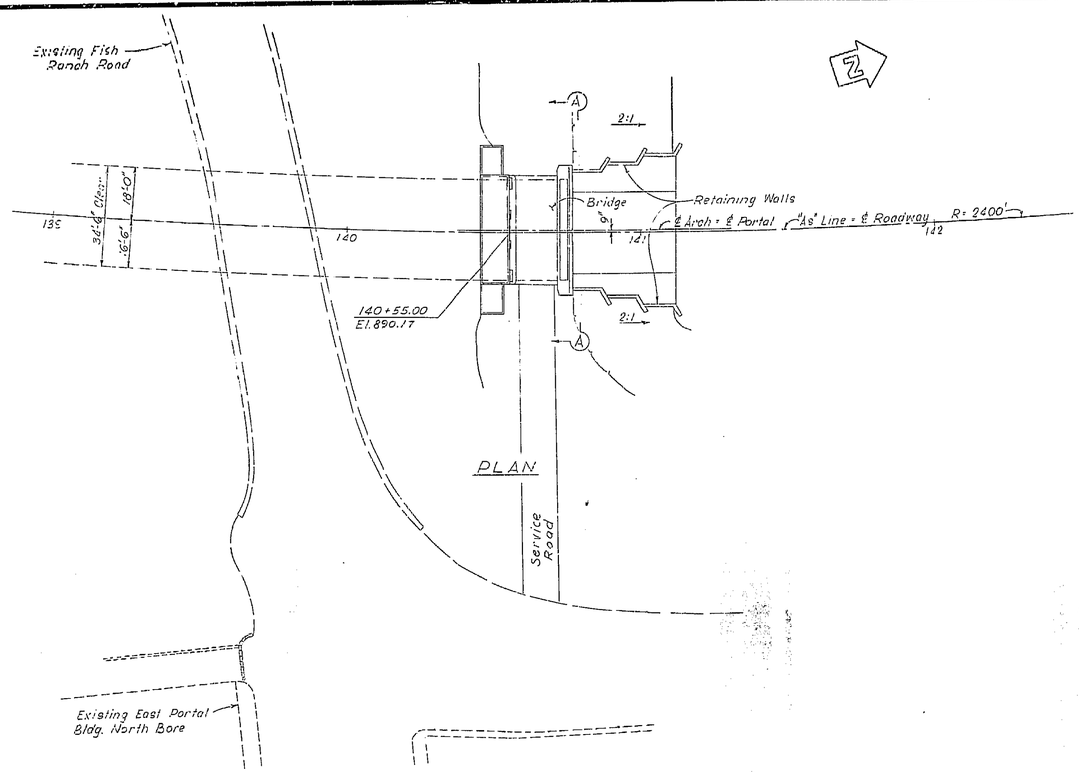
U-0039-1(1)

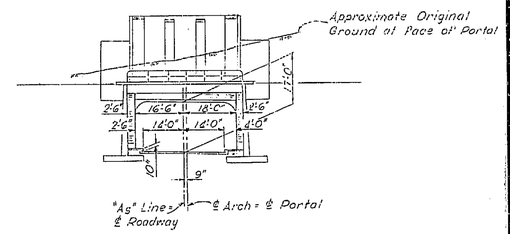
| FED. AID DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 50 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | Alpine | 89 | Oak A | 10 | 33 |

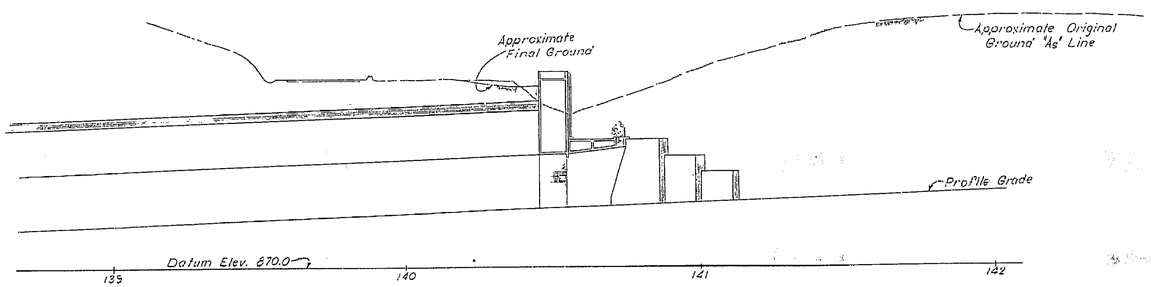
Bridge Engineer – Bridge Engineer – Highway Team

Date Approved August 29 1960




VIEW A-A




ELEVATION (ALONG "As" LINE)

Note: For details not shown see "Portal Bldg. Bridge Details" & "East Portal - Bridge & Retain. Wall Layout" sheets.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER E. W. Black
TRACINGS CORRECTED BY: RR DATE: 6-9-65

AS BUILT PLANS
Contract No. 61-4713C13
Date Completed
Document No. 4000 2510

50

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: W. J. Chesney
Chief Designer: Alan H. Rosenblatt

| | | | |
|---|---|---|---|
| DESIGN | W. J. Chesney 7-59 | Checked R. Johnson 2-60 | |
| DETAILS | D. K. Barnby 7-59 | Checked R. Johnson 2-60 | |
| QUANTITIES | J. Wheeler 3-60 | Checked J. Lloyd 5-60 | |
| SPECIFICATIONS | | Plans and Form Compared | |

Approval Recommended by: Bridge Engineer — Civil Engr. Licensed No. 5738

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

EAST PORTAL - GENERAL PLAN

SCALE 1" = 20' | BRIDGE 28-156 | FILE | DRAWING C-5978-10

P.X 235 Disregard prints bearing earlier numbers → PREL. DRAWING NO. P-5978 | 60 | 2/8/58 | 3/8/58 | 4/5/58 | 6/5/58 | 72

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' 0 100 200 300 400 500 600 700
SCALE 1" = 20' 0 100 200 300
SCALE 1" = 40' 300 600

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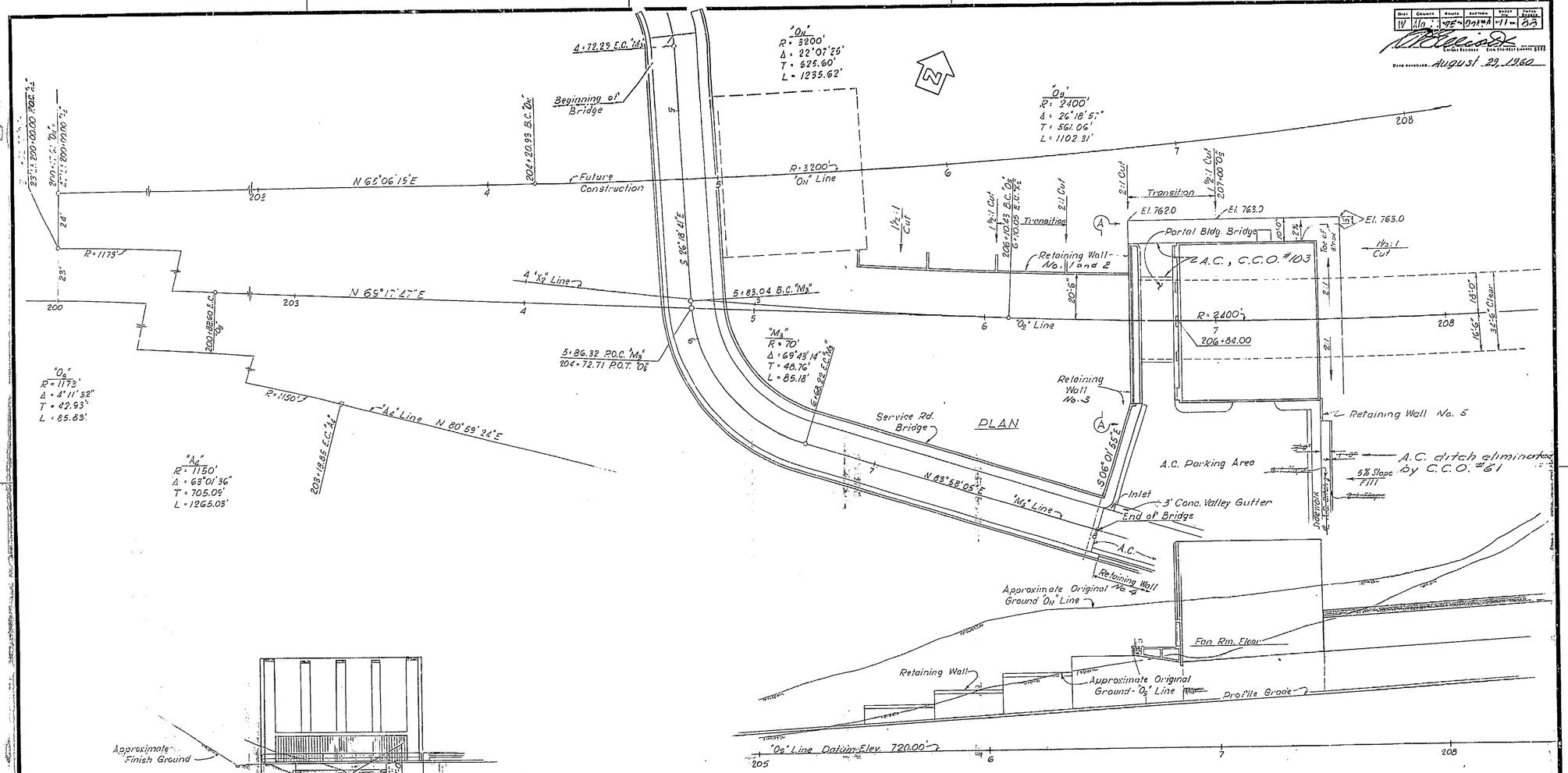
U-0039-1(1)

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 51 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | LA | 75 | 0.2 to 0.8 | 51 | 83 |

CHIEF ENGINEER — CHIEF ENGINEER LABORATORY

DATE APPROVED — August 29, 1960




ELEVATION (ALONG "O3" LINE)
Service Rd. Bridge not shown. For details see "Gen. Plan - W. Portal Service Rd. Br. #1"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 19, 1964, AS SUBMITTED BY RESIDENT ENGINEER W. W. Black
TRACINGS CORRECTED BY: KG DATE: 6-9-65

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

51

Note:
For alignment data not shown see "Road Plans"
For Retaining Walls and Bridge details see other sheets.

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: W. P. Chesney
Chief Designer: Alan R. Ridgeway

| | | | |
|---|---|---|---|
| DESIGN | W. P. Chesney 7-58 | Checked R. Johnson 2-60 | |
| DETAILS | By R. K. Johnson 7-58 | Checked R. R. Johnson 2-60 | |
| QUANTITIES | By J. Wheeler 2-60 | Checked H. Quinn 2-60 | |
| SPECIFICATIONS | By | Plans and Reports Reviewed | |

Approval Recommended by: Supervisor of Design
Reg. License No. 6789

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL

WEST PORTAL BUILDING-GENERAL PLAN

SCALE 1" = 20' | BRIDGE 28-15L | FILE | DRAWING C-5978-11

73

BX 235 Disregard prints bearing earlier numbers

PREL. DRAWING No. P-5978

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM – STATE OF CALIFORNIA – DEPARTMENT OF PUBLIC WORKS – MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

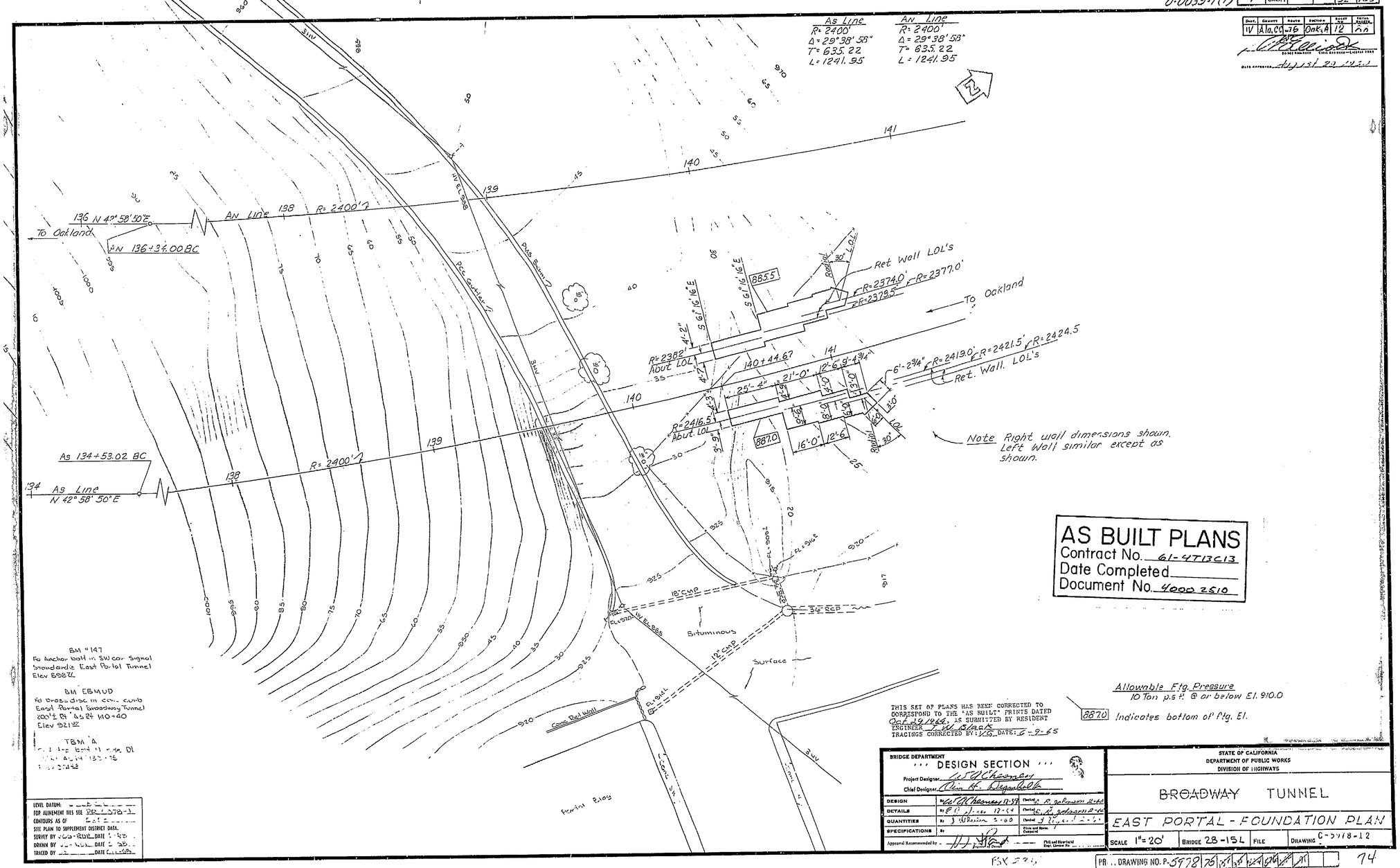
U-0039-1(1)

| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 52 | 103 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | Ala.Co. | 17B | Oak.A | 12 | 20 |

DIRECTOR OF PUBLIC WORKS

DATE APPROVED August 22 1962




Allowable Ftg. Pressure
10 Ton p.s.f. @ or below El. 910.0

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 29 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: JCO DATE: 6-9-65

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer: J. S. Chesmore
Chief Designer: Glen H. Gilpatrick

| | | | |
|---|---|---|---|
| DESIGN | By J. S. Chesmore 12-59 | Checked R. Johnson 2-60 | |
| DETAILS | By E. P. 12-59 | Checked R. Johnson 2-60 | |
| QUANTITIES | By J. W. Davis 2-60 | Checked J. R. Johnson 2-60 | |
| SPECIFICATIONS | By | Elev. and Horiz. Control | |
| Approved Recommended by | Principal Engineer | Civil and Structural Engr. Licensed No. | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

EAST PORTAL - FOUNDATION PLAN

SCALE 1" = 20' | BRIDGE 28-151 | FILE | DRAWING C-5978-12

PR.. DRAWING NO. P-5978 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 74

52

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-7-72 SIGNATURE James E. Cassidy TITLE Sr. RMO

MICROFILM STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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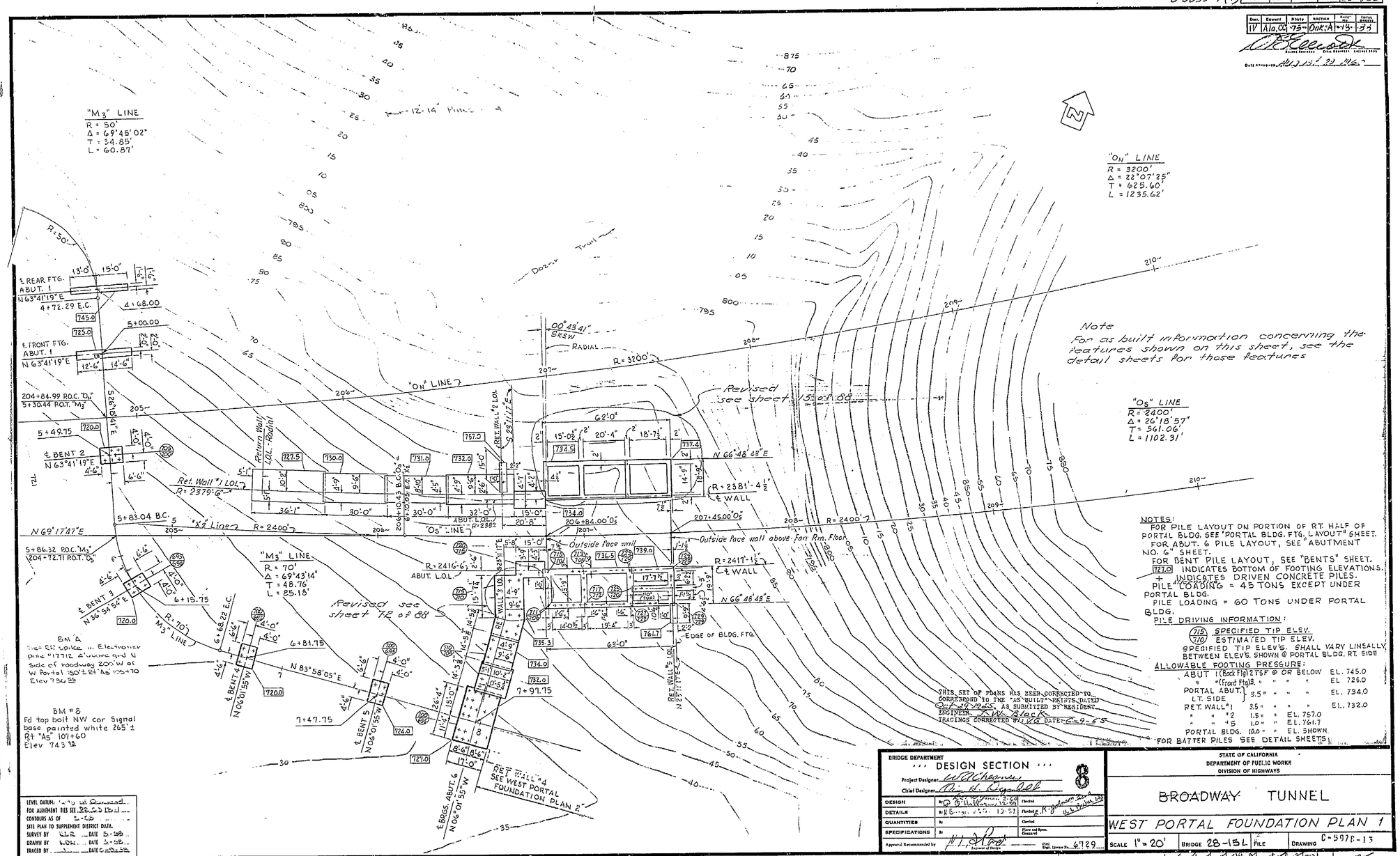
U-0039-1(1)

| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 53 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | PROJ. NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| IV | Ala. Co. | 75 | Oak. 1A | W-15 | 53 |

Date approved Aug 13 '72 1962




Note
For as built information concerning the features shown on this sheet, see the detail sheets for those features

NOTES:
FOR PILE LAYOUT ON PORTION OF RT. HALF OF PORTAL BLDG. SEE "PORTAL BLDG. FTG. LAYOUT" SHEET.
FOR ABUT. 6 PILE LAYOUT, SEE "ABUTMENT NO. 6" SHEET.
FOR BENT PILE LAYOUT, SEE "BENTS" SHEET.
727.0 INDICATES BOTTOM OF FOOTING ELEVATIONS.
+ INDICATES DRIVEN CONCRETE PILES.
PILE LOADING = 45 TONS EXCEPT UNDER PORTAL BLDG.
PILE LOADING = 60 TONS UNDER PORTAL BLDG.

PILE DRIVING INFORMATION:
715 SPECIFIED TIP ELEV.
710 ESTIMATED TIP ELEV.
SPECIFIED TIP ELEV'S. SHALL VARY LINEALLY BETWEEN ELEV'S. SHOWN @ PORTAL BLDG. RT. SIDE

ALLOWABLE FOOTING PRESSURE:

| | | |
|---|---|---|
| ABUT 1 (Back Fig) | 2.75 T/SF @ OR BELOW | EL. 745.0 |
| " " (Front Fig) | 3.5 " " " " | EL. 725.0 |
| PORTAL ABUT. 1 LT. SIDE | 3.5 " " " " | EL. 734.0 |
| RT. WALL #1 | 3.5 " " " " | EL. 732.0 |
| " " #2 | 1.5 " " | EL. 757.0 |
| " " #5 | 1.0 " " | EL. 741.7 |
| PORTAL BLDG. | 10.0 " " | EL. SHOWN |

FOR BATTER PILES SEE DETAIL SHEETS

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 27 1965 AS SUBMITTED BY RESIDENT ENGINEER R.W. Block
TRACINGS CORRECTED BY KG DATE 6-9-65

BRIDGE DEPARTMENT
DESIGN SECTION
8
Project Designer W.H. Chapman
Chief Designer Arthur H. Ringenbach

| | | | |
|---|---|---|---|
| DESIGN | W.H. Chapman 12-68 | Checked | |
| DETAILS | H.E. Gonzales 12-68 | Checked | R.J. Gilmore 12-68 |
| QUANTITIES | By | Checked | |
| SPECIFICATIONS | By | Checked | |
| Approval Recommended by | Engineer of Design | Civil Engr. License No. 6729 | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

WEST PORTAL FOUNDATION PLAN 1

SCALE 1" = 20' | BRIDGE 28-151L | FILE | DRAWING C-5978-13

BX 235 | PREL. DRAWING NO. P-5978 | 75

AS BUILT PLANS
Contract No. 61-471813
Date Completed
Document No. 4000 2510

53

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-7-72 SIGNATURE James E. Cook TITLE Sr. RMA

MICROFILM STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

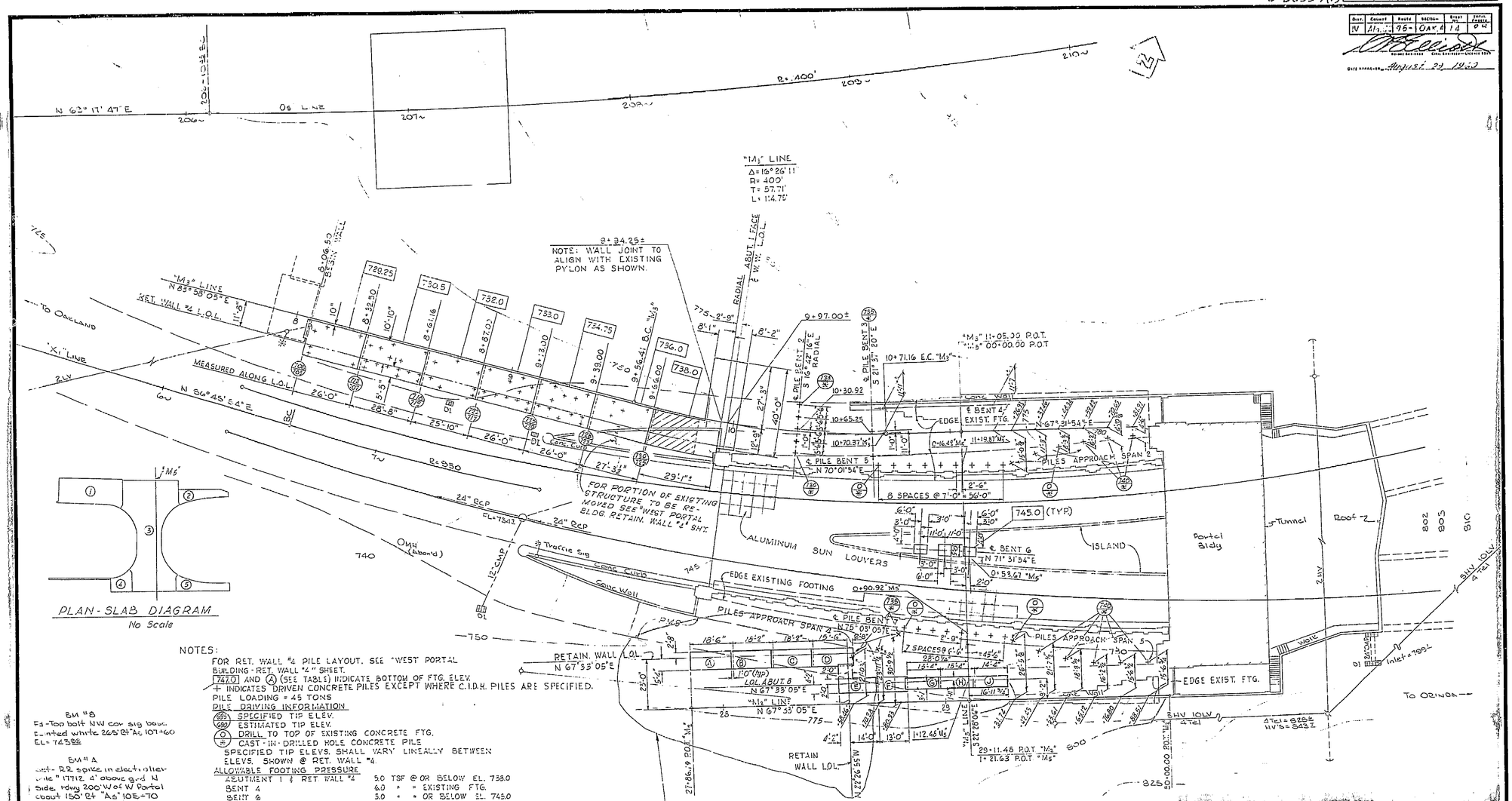
| FED. AID DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 54 | 109 |

U-0039-1(1)

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 04 | Ala. | 580 | Oak. & | 14 | 84 |

DISTRICT ENGINEER — CIVIL ENGINEER-ARCHITECT

DATE APPROVED August 29, 1969




NOTES:

FOR RET. WALL #4 PILE LAYOUT, SEE "WEST PORTAL BUILDING - RET. WALL #4" SHEET.

[747.0] AND (A) (SEE TABLES) INDICATE BOTTOM OF FTG. ELEV.

+ INDICATES DRIVEN CONCRETE PILES EXCEPT WHERE C.I.D.H. PILES ARE SPECIFIED.

PILE LOADING = 45 TONS

PILE DRIVING INFORMATION

(685) SPECIFIED TIP ELEV.

(680) ESTIMATED TIP ELEV.

(O) DRILL TO TOP OF EXISTING CONCRETE FTG.

(*) CAST-IN-DRILLED HOLE CONCRETE PILE

SPECIFIED TIP ELEVS. SHALL VARY LINEALLY BETWEEN ELEVS. SHOWN @ RET. WALL #4.

ALLOWABLE FOOTING PRESSURE

| | | |
|---|---|---|
| ABUTMENT 1 & RET. WALL #2 | 5.0 TSF | @ OR BELOW EL. 738.0 |
| BENT 4 | 6.0 " | " EXISTING FTG. |
| BENT 6 | 5.0 " | " OR BELOW EL. 745.0 |
| ABUTMENT 8 & APPROACH SPAN 4 | 1.0 " | " EL. SHOWN |
| " 8 RET. WALL | .75 " | " " |
| APPROACH SPAN 2 & 5 | 2.0 " | " " |

APPROX. AREA TO BE EXCAVATED TO EL. 738.0 AND BACKFILLED TO GRADE WITH COMPACTED CRUSHED ROCK.

BM #8
Fd-Top bolt NW cor sig base painted white 265' Rt "As" 107+60 EL= 742.82

BM #A
Spot - RR spike in electrolier base "M" 17+12, 4' above grd N side, Hwy 200' W of W Portal cbout 150' Rt "As" 105+70

BOTTOM OF FTG. ELEV'S

(A) - 749.0'
(B) - 756.0'
(C) - 758.0'
(D) - 757.5'
(E) = 760.0'
(F) = 761.6'
(G) = 763.8'
(H) = 766.0'
(I) = 768.8'

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 4, 1965, AS SUBMITTED BY RESIDENT ENGINEER W. Slack
TRACINGS CORRECTED IN: [illegible] DATE: 8-7-65

Revision By C.C.O. #7
See sheet S-1
Revision to Abut #8

LEVEL DATUM: [illegible]
FOR ALINEMENT TIES SEE [illegible]
CONTOURS AS OF [illegible]
SITE PLAN TO SUPPLEMENT DISTRICT DATA.
SURVEY BY [illegible] DATE [illegible]
DRAWN BY [illegible] DATE [illegible]
TRACED BY [illegible] DATE [illegible]

54

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

BRIDGE DEPARTMENT
... DESIGN SECTION ...
Project Designer [illegible]
Chief Designer [illegible]

| | | | |
|---|---|---|---|
| DESIGN | [illegible] | Checked | [illegible] |
| DETAILS | By [illegible] | Checked | [illegible] |
| QUANTITIES | By [illegible] | Checked | [illegible] |
| SPECIFICATIONS | By [illegible] | Flow of Stress Checked | |

Approval Recommended by [illegible] Engineer of Design

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL

WEST PORTAL - FOUNDATION PLAN 2

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| 1" = 20' | 28-15 L | | C-5978-L4 |

BY 235 PREL. DRAWING NO. P-5978

76

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 2-7-72 SIGNATURE [illegible] TITLE Sr. R.M.I.

ClibPDF - www.fastio.com

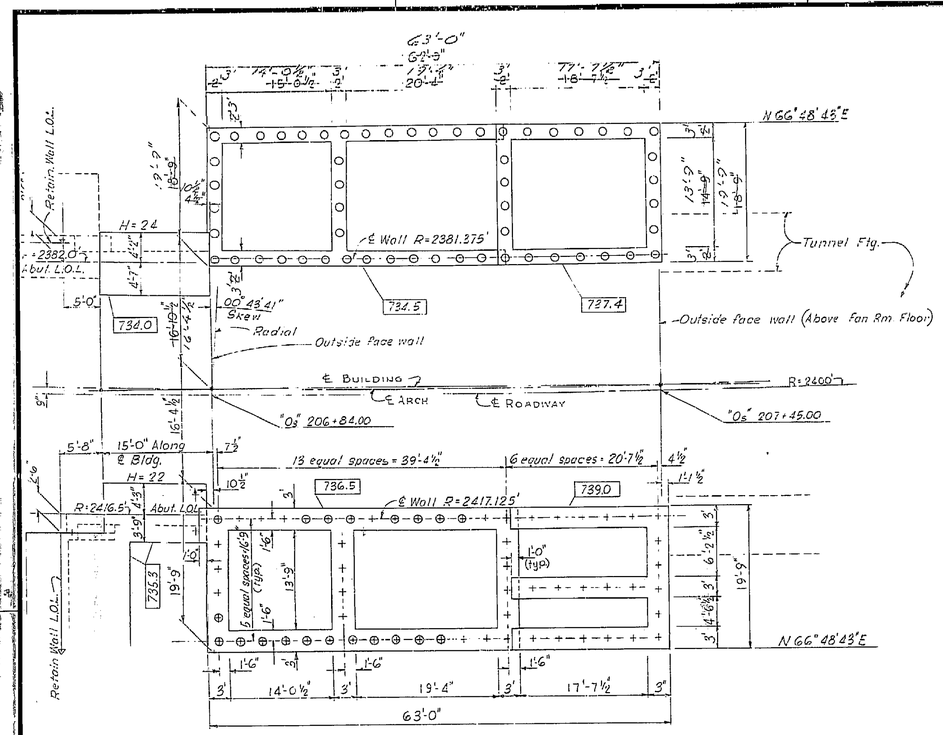
| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 55 | 163 |

V-003.9-1 (1)

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 1V | Ala, Co | 17/5 | Oakland | 15 | 84 |

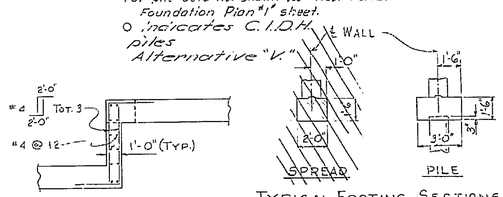
BRIDGE ENGINEER — CIVIL ENGINEER — CHIEF ENGINEER

DATE APPROVED August 24, 1960




## WEST PORTAL BUILDING

For Retain. Wall det's. not shown see other sheets.
⊕ Indicates Concrete Piles. + Indicates 10 BP 57 piles
For pile data not shown see "West Portal Foundation Plan #1" sheet.
O Indicates C.I.D.H. piles Alternative "V."



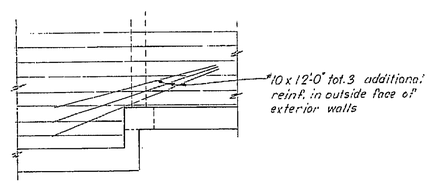

TYPICAL FOOTING STEP

No Scale

TYPICAL FOOTING SECTIONS

Note: Reinf. not shown

Note: Bottom of ftg. elev's. shown thusly 738.5



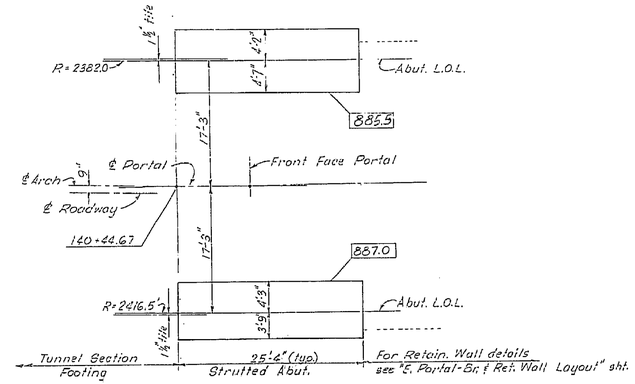

ELEV.

ADDITIONAL WALL REINF. @ FTG. STEP

No Scale

Ftg. step shown for Lt. Side of bldg. Rt. Side similar

## EAST PORTAL




Note

Concrete piles are Alternative "U."
C.C.O. No. 54 allowed substitution of 10 BP 57 concrete piles.
C.C.O. No. 56 provided for C.I.D.H. piles under north footings of the West Portal Building.
For Retain. Wall #3 and south strutted abut. as built pile information, see sheet 112 of 163.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: RG DATE: 12-9-65

AS BUILT PLANS
Contract No. 61-4T13C1.3
Date Completed
Document No. 4000 2510

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8

Project Designer: J. D. Chesney
Chief Designer: Alan H. Deguelle

| | | | |
|---|---|---|---|
| DESIGN | D. O. Williams 1-59 | Checked | K. Johnson 2-60 |
| DETAILS | H. W. Williams 1-59 | Checked | K. Johnson 2-60 |
| QUANTITIES | J. W. Reiter 2-60 | Checked | J. Tsui 2-60 |
| SPECIFICATIONS | | Face and Name Changed | |

Approval Recommended by: H. L. Rand, Asst. Chief of Bridge — Civil Engr. License No. 6729

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY - TUNNEL

PORTAL BLDG. FTG. LAYOUT

Except as Noted SCALE 1/8" = 1'-0" | BRIDGE 28-15L | FILE | DRAWING C-5978-15

Bk. 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE: 1-1-70 SIGNATURE: [illegible] TITLE: Div. Engr.

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

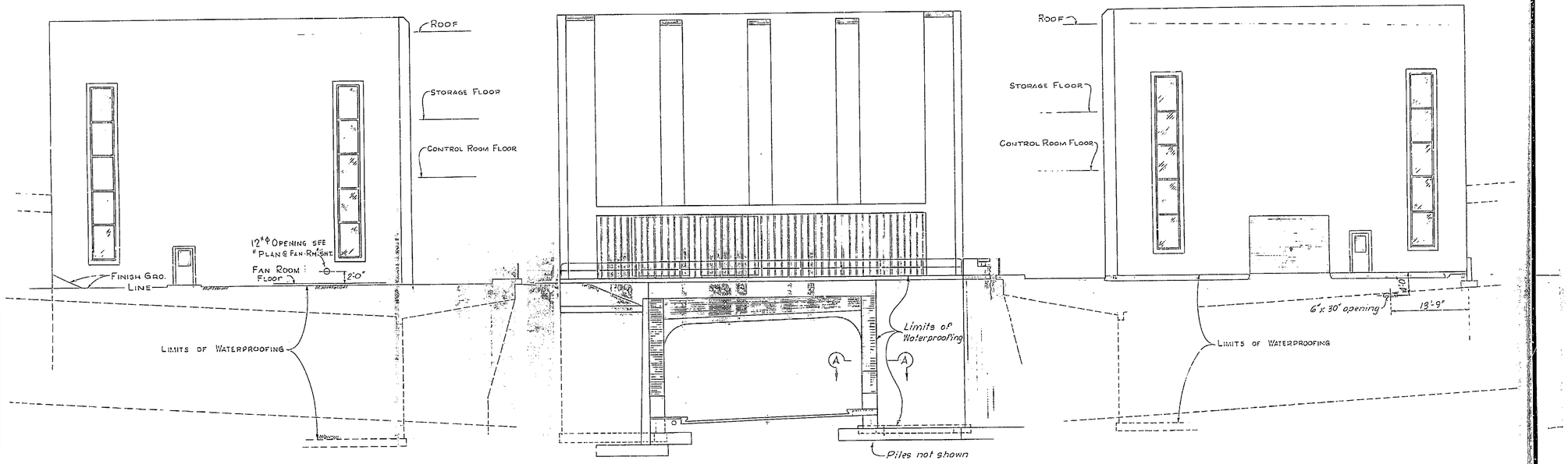
U-0039.1 (1)

| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 56 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | SD, CO. | 425 | Orr-A | 16 | 44 |

STATE ENGINEER — CIVIL ENGINEER — STRUCTURAL ENGINEER

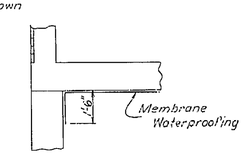
DATE APPROVED: August 22, 1960



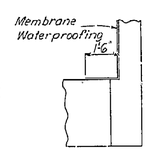

NORTH SIDE ELEVATION

FRONT ELEVATION

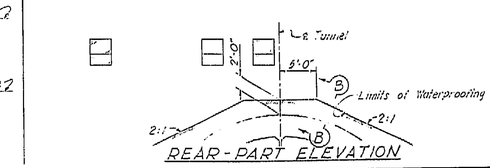
SOUTH SIDE ELEVATION




SECTION A-A
Scale: 3/8" = 1'-0"




SECTION B-B
Scale: 3/8" = 1'-0"




REAR-PART ELEVATION

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Sept 29 1964, AS SUBMITTED BY RESIDENT ENGINEER F. W. Black
TRACINGS CORRECTED BY: LG DATE: 8-9-65

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8

Project Designer: W. A. Chenney
Chief Designer: Christ. Hogsdal

| | | | |
|---|---|---|---|
| DESIGN | By W. A. Chenney 11-58 | Checked R. Carlson 2-60 | |
| DETAILS | By J. R. Parsons 4-11-55 | Checked R. A. Carlson 2-60 | |
| QUANTITIES | By J. Wheeler 4-60 | Checked H. L. Simpson | |
| SPECIFICATIONS | By | Plans and Bkrs. Prepared | |
| Approval Recommended by | | Chief Engr. License No. 6729 | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL

WEST PORTAL BUILDING ELEVATIONS

Except as noted SCALE 1/8" = 1'-0" | BRIDGE 28-15L | FILE | DRAWING C-5978-16

BK 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978 78

56

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' SCALE 1" = 20'

ClibPDF - www.fastio.com

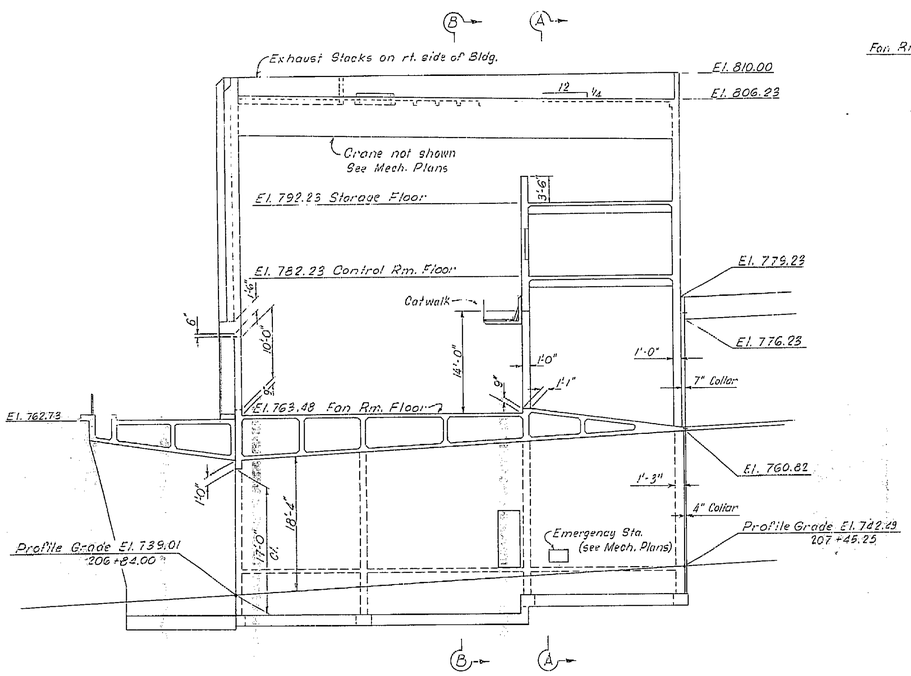
| FED. ROAD DIST. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF | | 57 | 163 |

U-0039-1 (1)

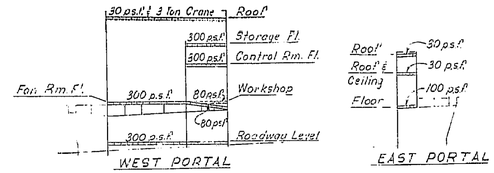
| DIST. | COUNTY | ROUTE | SECTION | PROJECT NUMBER | SHEET NUMBER |
|---|---|---|---|---|---|
| 11 | Alpine | 13 | Oak-A | 77 | 94 |

DIRECTOR OF DESIGN — CHIEF ENGINEER-GENERAL MANAGER

DATE APPROVED August 29 1960




WEST PORTAL BUILDING
Along "O₂" Line

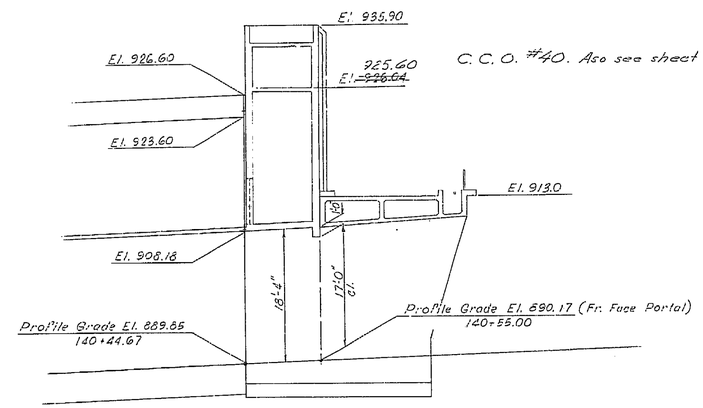



ALLOWABLE LIVE LOAD DIAGRAM
No Scale

NOTE

The Contractor shall be responsible for any overloading of the structure beyond its safe bearing capacity. In moving equipment and material over concrete slabs, the loads occasioned by such equipment and materials shall be distributed over the slab in such manner as will not exceed the permissable live loading shown on this plan.

Live loading on stairways and walkways shall not exceed 100 p.s.f.




EAST PORTAL
Along "A₂" Line

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1963 AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: LG DATE: 6-9-65

Note: For Sections A-A, B-B, see "West Portal Bldg.-Trans. Sects." sheet.

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8

Project Designer: W. R. Chesney
Chief Designer: Chas. H. Dagenhart

| | | | |
|---|---|---|---|
| DESIGN | By W. R. Chesney 7/59 | Checking | R. Johnson 2-60 |
| DETAILS | By R. L. Jones 7/59 | Checking | R. Johnson 2-60 |
| QUANTITIES | By J. Wheeler 2-60 | Checking | N. Lewis-Gonzalez 2-60 |
| SPECIFICATIONS | By | Plans and Revis. Engineer | |
| Approval Recommended by | Engineer of Design | Civil Eng. License No. | 4788 |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

LONGITUDINAL SECTIONS

SCALE 1/8" = 1'-0" | BRIDGE 28-15 L | FILE | DRAWING C-5978-17

P.X 235

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978 | 1-58 | 2-58 | 10-58 | 2-63 | 10-63 | 3-68 | 4-69 | 5-69 | 19

57

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION by THE DIRECTOR OF PUBLIC WORKS.

DATE ... SIGNATURE ... TITLE ...

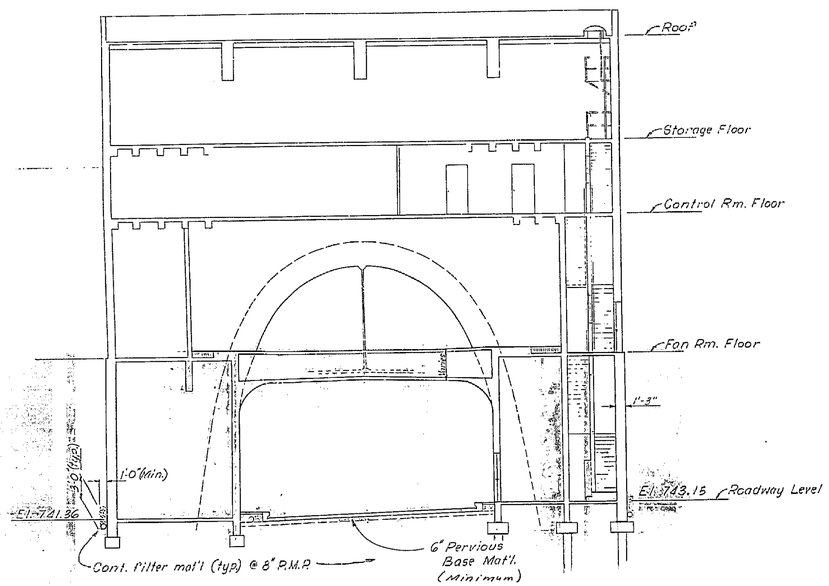
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

U-0039-1 (1)

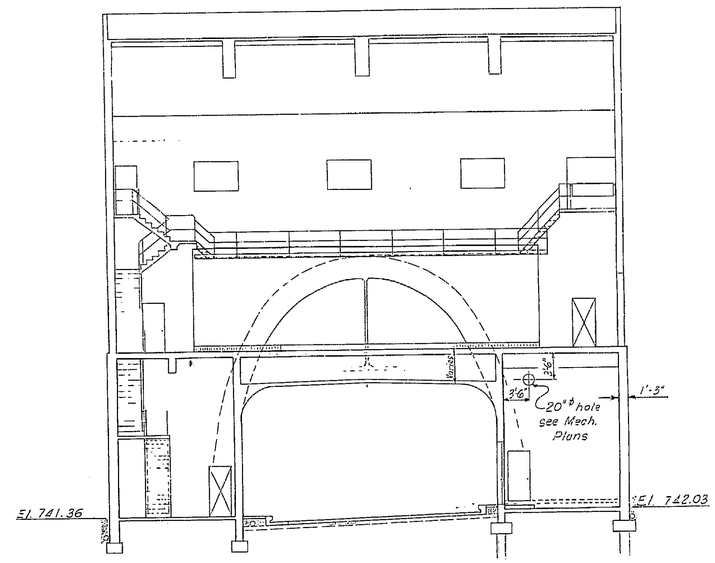
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FINISH YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 58 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | Alameda | 79 | Int. A | 18 | 22 |

Date approved: August 29, 1960




SECTION A-A
WEST PORTAL BUILDING




SECTION B-B
WEST PORTAL BUILDING

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER T.W. Black
TRACINGS CORRECTED BY: LCG DATE: 2-9-65

Note: For Sections A-A, B-B location, see 'Longitudinal Sections' sheet.

58

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8
Project Designer: W. A. Chesney
Chief Designer: Alan B. Dalgamouk

| | | | |
|---|---|---|---|
| DESIGN | By W. A. Chesney 11-58 | Checked R. Johnson 2-60 | |
| DETAILS | By W. A. Chesney 11-58 | Checked R. Johnson 2-60 | |
| QUANTITIES | By [illegible] 2-60 | Checked [illegible] 2-60 | |
| SPECIFICATIONS | By | Plans and Spec. Prepared | |
| Approval Recommended by | Chief of Design | Civil Engr. License No. 6728 | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL

WEST PORTAL BLDG.-TRANS. SECTS.

SCALE 1/8" = 1'-0" | BRIDGE 28-15 L | FILE | DRAWING C-5978-18

BX 235 Disregard prints bearing earlier numbers

PREL. DRAWING No. P-5978 | 5975 | 5977 | 5978 | 5979 | 5980 | 5981 | 5982 | 5983 | 5984 | 5985 | 80

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
SCALE 1" = 20
ClibPDF - www.fastio.com

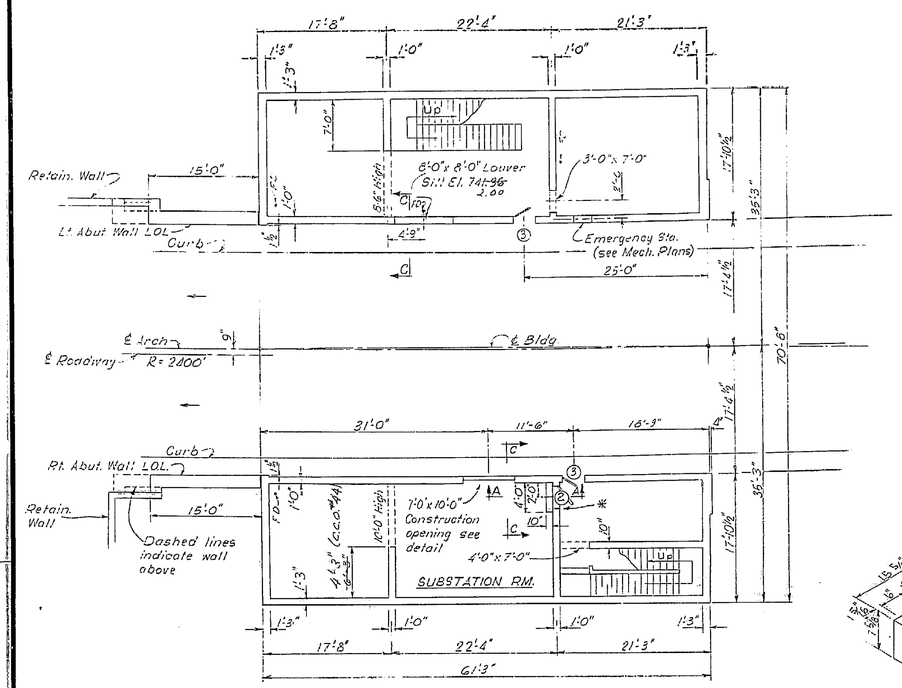
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 59 | 163 |

0-0039-1 (1)

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | Alameda | 75 | Oak A | 19 | 80 |

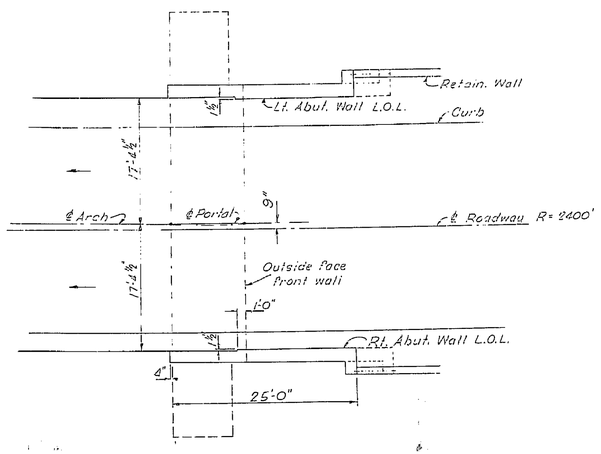
TRAFFIC ENGINEER — CIVIL ENGINEER — CHIEF ENGINEER

DATE APPROVED August 22, 1960




WEST PORTAL BUILDING

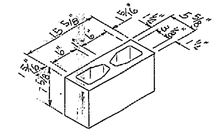
* See "West Portal Bldg-Trans. Sect." Sect. B-B" For 20'-6" hole in wall




EAST PORTAL

For Portal details not shown see other sheets.

Note: FD indicates Floor Drain. see "Mechanical Details"



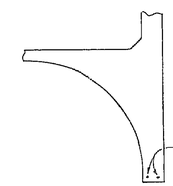
6"x8"x16" STANDARD

BOND BEAM

OPEN END BOND BEAM

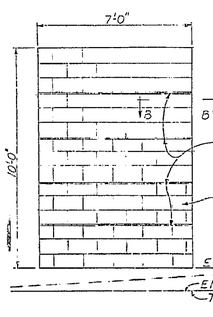
CONCRETE BLOCK DETAILS

No Scale



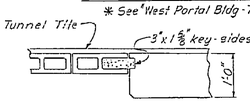

SECTION C-C

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



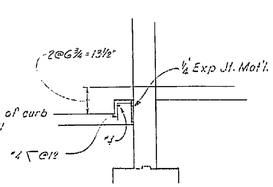

7'-0" x 10'-0" CONSTRUCTION OPENING

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




SECTION B-B

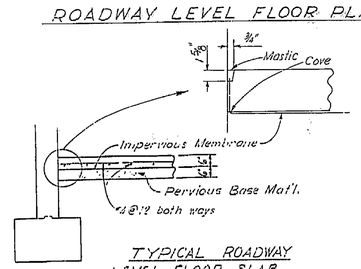
Scale: 3/4" = 1'-0"




SECTION A-A

Scale: 3/4" = 1'-0"

ROADWAY LEVEL FLOOR PLAN




TYPICAL ROADWAY LEVEL FLOOR SLAB

Scale: 3/4" = 1'-0"

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS WAS BEEN CORRECED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1968, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black DRAGINGS CORRECTED BY: [illegible] DATE: 7-9-65

BRIDGE DEPARTMENT
DESIGN SECTION 8

Project Designer: [illegible]
Chief Designer: [illegible]

| | | | |
|---|---|---|---|
| DESIGN | By [illegible] 11-58 | Checked R. R. Johnson 2-60 | |
| DETAILS | By [illegible] 1-58 | Checked R. R. Johnson 2-60 | |
| QUANTITIES | By [illegible] 2-60 | Checked [illegible] | |
| SPECIFICATIONS | By | Plans and Specs. Prepared | |
| Approval Recommended by [illegible] Bridge Engr. | | Civil Engr. License No. ..... | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

PLAN AT ROADWAY LEVEL

Except as noted SCALE 1/8" = 1'-0" | BRIDGE 28-15 L | FILE | DRAWING C-5978-19

BX235 Disregard prints bearing earlier numbers

PHEL. DRAWING No. P-5978

59

81

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ' ' ' SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'

ClibPDF - www.fastio.com

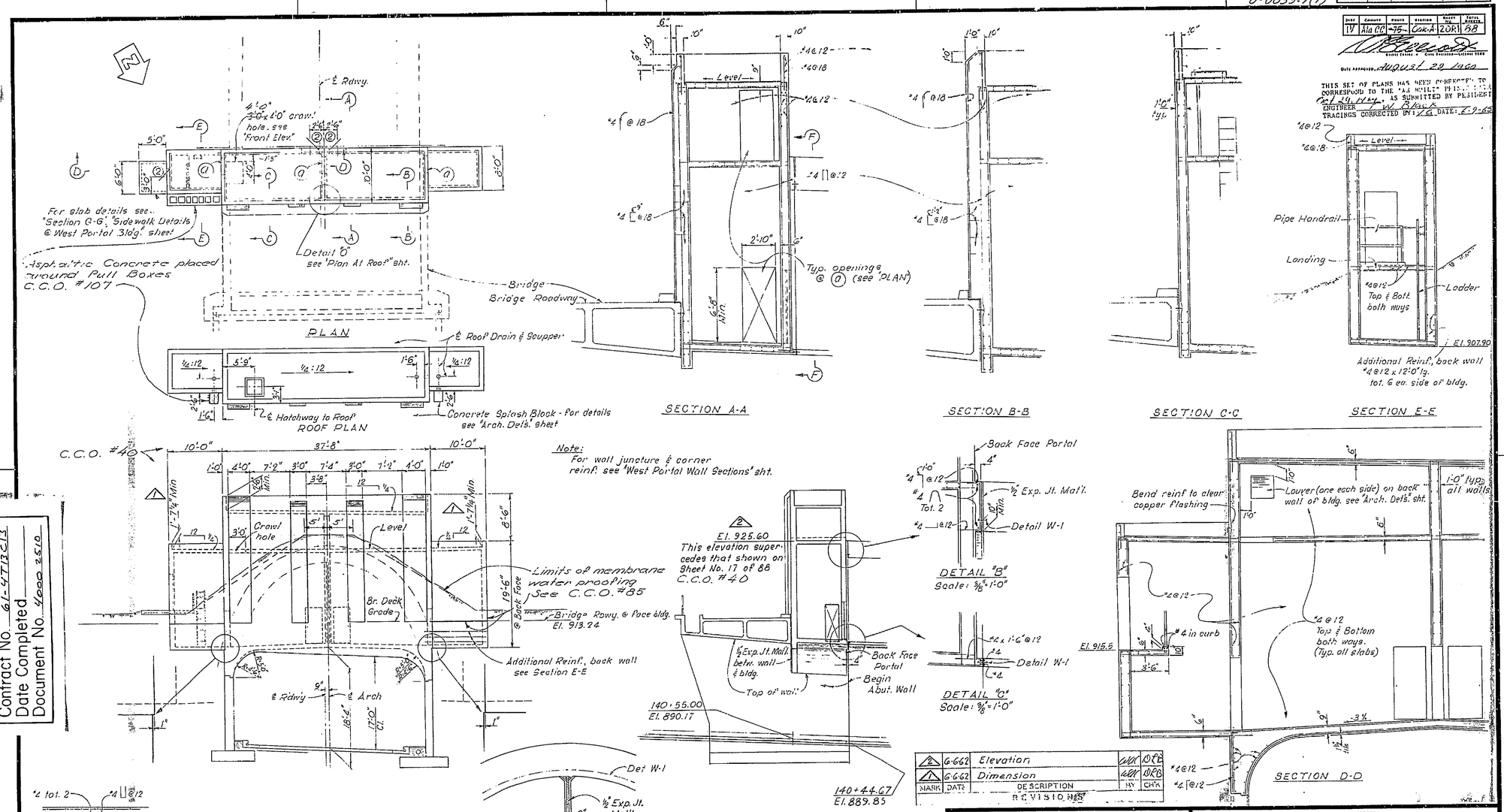
U-0039-1(1)

| FED. ROAD DIV. No. | STATE | F. A. PROJECT No. | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 60 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| IV | Ala CC | 75 | Cok-A | 20R1 | 88 |

DATE APPROVED: August 29 1960

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATE Oct 29, 1969, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: JG DATE: 6-9-65




| MARK | DATE | DESCRIPTION | BY | CHK |
|---|---|---|---|---|
| 2 | 6-6-62 | Elevation | WAK | DRB |
| 1 | 6-6-62 | Dimension | WAK | DRB |

REVISIONS

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: W. A. Chesney
Chief Designer: Chas. H. Dagnall

| | | | |
|---|---|---|---|
| DESIGN | By W. A. Chesney 8-59 | Checked C. R. Johnson 2-60 | |
| DETAILS | By H. L. Pimentel 8-59 | Checked C. R. Johnson 2-60 | |
| QUANTITIES | By J. Wheeler 2-60 | Checked J. Ely 2-60 | |
| SPECIFICATIONS | By | Plans and Specs. Contract | |

Approved Recommended by: [signature] Engineer of Design — Civil Engr. License No. 6728

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL

EAST PORTAL DETAILS

Except as noted SCALE 1/4" = 1'-0" | BRIDGE 28-15L | FILE | DRAWING SC-5978-9

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978 | 166 | 184 | 281 | 420 | 42

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

60

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

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U-0039-1 (1)

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 61 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
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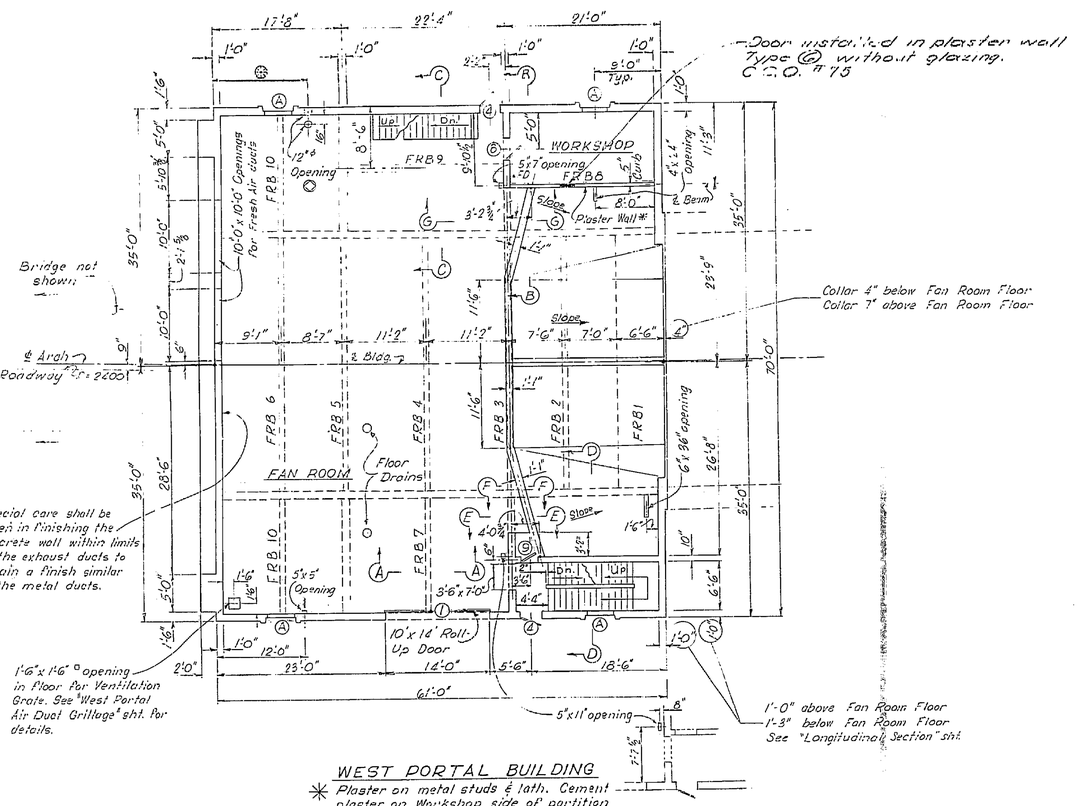
DIRECT ENGINEER — CHIEF ENGINEER-DIRECTOR

DATE APPROVED August 29, 1960




## WEST PORTAL BUILDING

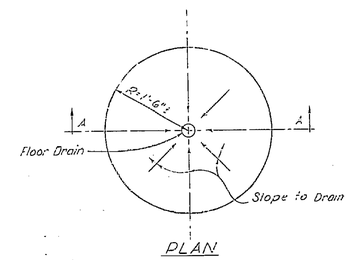
✳ Plaster on metal studs & lath. Cement plaster on Workshop side of partition only. For details see sh. "Control Rm. Floor Det's.", "Section F-F."

⊗ To be determined by the Engineer.

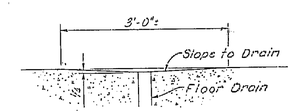
◯ For 12" wall opening see "West Portal Bldg. Elevations" sht.

## PAINTING SCHEDULE FOR INTERIOR SURFACE

Fan Room & Workshop — Walls to 7'-0" above floor, color #05
Control Room, Office, Utility Room, Toilet & Locker Room and Hallway — Walls and Ceiling, color #01
Stairwell between Fan Room Floor and Storage Room Floor — Walls and underside of stairs, color #01
Open Stairway in Fan Room — Walls to 7'-0" above stairway (see "W. Portal Building Stair Detail No. 2"), color #05




PLAN




SECTION A-A

TYPICAL SLAB FINISH AT FLOOR DRAINS
Scale: None

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 31 1962, AS SUBMITTED BY RESIDENT ENGINEER W. W. Black
TRACINGS CORRECTED BY: VG DATE: 6-9-65

Note: For Sections A-A, B-B, C-C, D-D, E-E, F-F, G-G, see "Fan Room Floor Det's. #1" sheet.
For Floor Drain det's see "Mechanical-Building Plumbing" sheet.

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer W. P. Chearney
Chief Designer Chas. H. Reyschach

| | | | |
|---|---|---|---|
| DESIGN | By W. P. Chearney 11-58 | Checked R. R. Jackson 2-60 | |
| DETAILS | By R. R. Jackson 11/58 | Checked R. R. Jackson 2-60 | |
| QUANTITIES | By J. Wilson 2-60 | Checked H. Grimes & John Jones | |
| SPECIFICATIONS | By | Plans and Pens. Executed | |

Approval Recommended by [signature] Engineer of Design — Civil Engr. Library No. 6724

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

PLAN AT FAN ROOM

SCALE 1/8" = 1'-0" | BRIDGE 28-15L | FILE | DRAWING C-5978-21

61

84

BX235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

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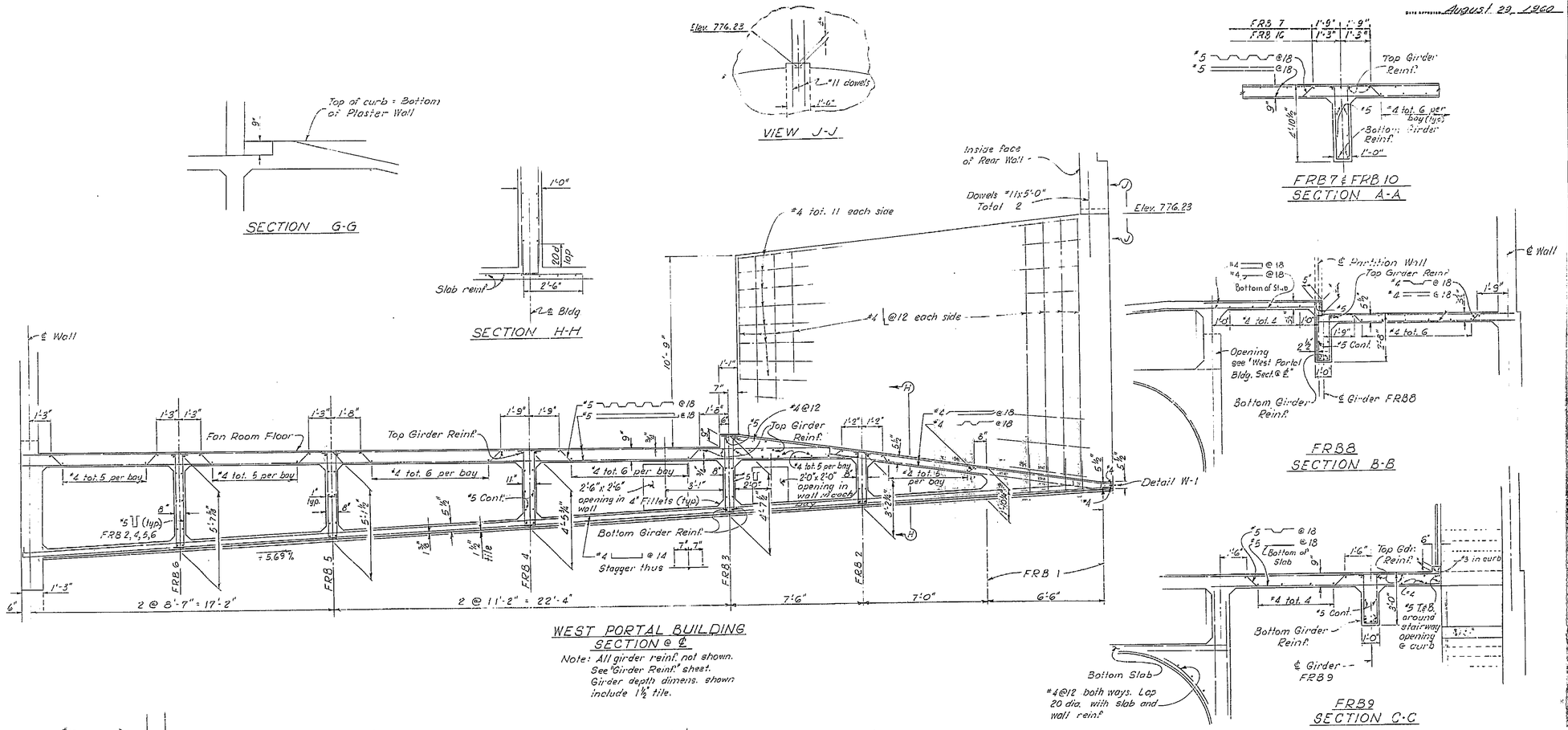
| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF | | | 62 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | LA | 75 | ORIG. A | 22 | 63 |

BRIDGE ENGINEER — CIVIL ENGINEER-IN-CHARGE STRUC.

DATE APPROVED August 29, 1960




Note: For location of Sections A-A, B-B, C-C, D-D, E-E, F-F, G-G, see "Plan at Fan Room" sheet.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 19 1964, AS SUBMITTED BY RESIDENT ENGINEER F.W. Black Jr.
TRACINGS CORRECTED BY VG DATE: 6-9-65

BRIDGE DEPARTMENT
... DESIGN SECTION ...
8

Project Designer: W.P. Chapman
Chief Designer: Alan M. Dilgard

| | | | |
|---|---|---|---|
| DESIGN | W.P. Chapman 1-59 | Checked R. Johnson 2-60 | |
| DETAILS | N.L. Barton Jr. 1-59 | Checked R. Johnson 2-60 | |
| QUANTITIES | N. Webster 7-60 | Checked W. Chapman 2-61 | |
| SPECIFICATIONS | N | Plans and Specs. Compared | |

Approval Recommended by: Engineer of Design — Chief Bridge Engineer — STATE ENGINEER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

# BROADWAY TUNNEL

## FAN ROOM FLOOR DETAILS #1

SCALE 3/8"=1'-0" | BRIDGE 28-15L | FILE | DRAWING C-5978-22

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978

5/5

62

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

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SCALE 1" = 50'
SCALE 1" = 20'
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U-0039-1 (7)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 63 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
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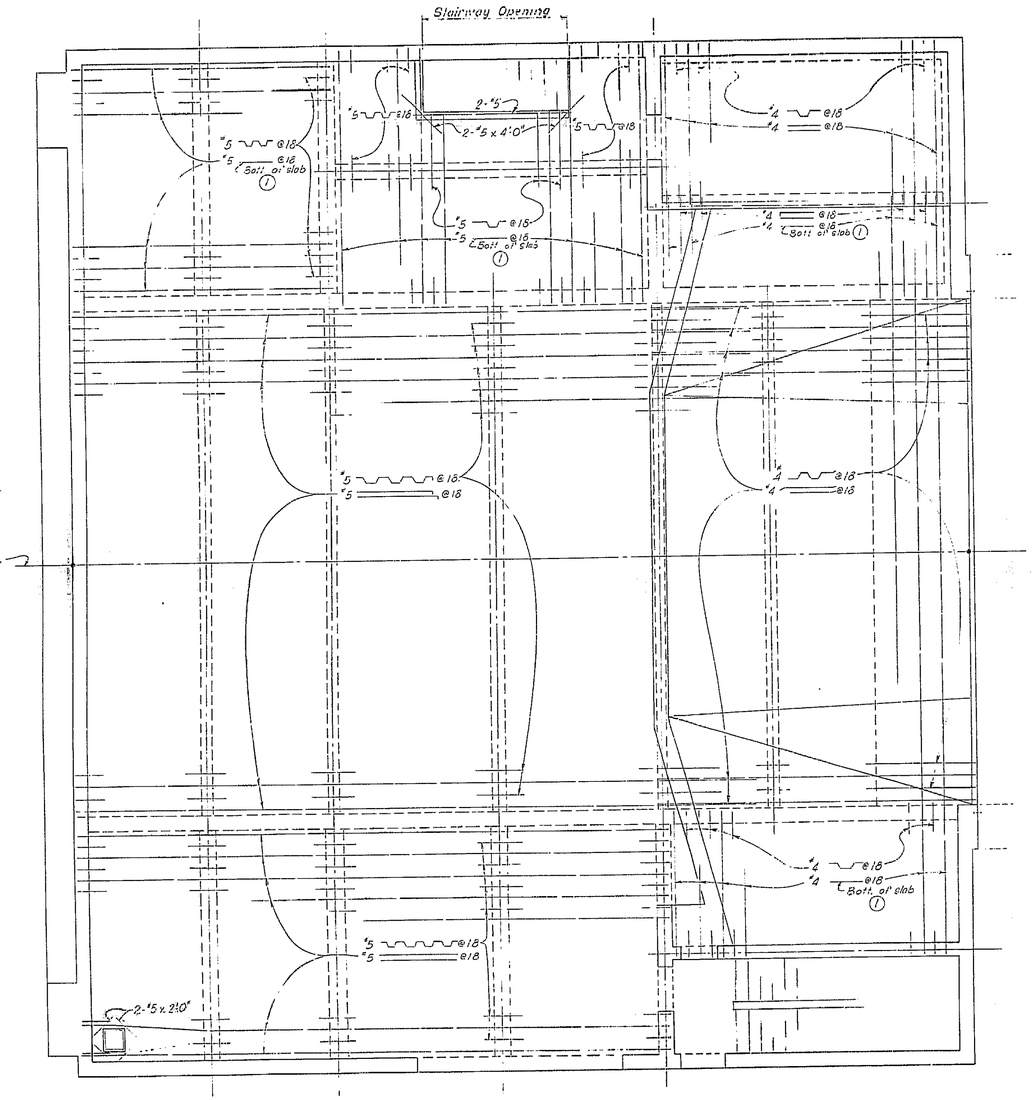
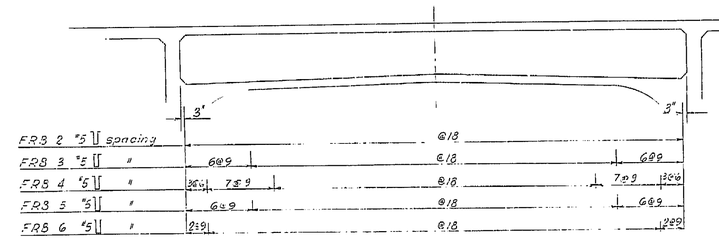
STATE ENGINEER — CIVIL ENGINEER — STRUCTURE ENGINEER

DATE APPROVED August 24, 1960

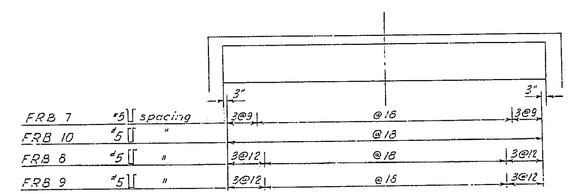



PLAN

1 For top of slab reinf. see "Top Girder Reinf.", "Fan Room Floor - Girder Reinf." sheet.




GIRDER ELEVATION - BOX SECTION
No Scale




GIRDER ELEVATION "T" SECTION
No Scale

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 19 1964, AS SUBMITTED BY RESIDENT ENGINEER C. W. Stack
TRACINGS CORRECTED BY: VG DATE: 8-9-65

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8

Project Designer: W. D. Chesney
Chief Designer: Alan H. Dilgenbeck

| | | | |
|---|---|---|---|
| DESIGN | W. D. Chesney 7-59 | Drawing R. Johnson 2-60 | |
| DETAILS | By R. F. Hartwig 7-59 | Drawing R. Johnson 2-60 | |
| QUANTITIES | By J. Hassler 2-60 | Checked | |
| SPECIFICATIONS | By | Plans and Specs. Prepared | |
| Approval Recommended by | Engineer of Design | Civil Engr. License No. | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

FAN ROOM FLOOR DETAILS #2

Except as noted SCALE 1/2" = 1'-0" | BRIDGE 28-15L | FILE | DRAWING C-5978-23

PREL. DRAWING NO. P-5978 | 1-5 | 3-8 | 11-15 | 6-9 | 16-21

BX 235 Disregard prints bearing earlier numbers

86

63

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DATE 1-1-71 SIGNATURE [illegible] TITLE [illegible]

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SCALE 1" = 50'
SCALE 1" = 20'
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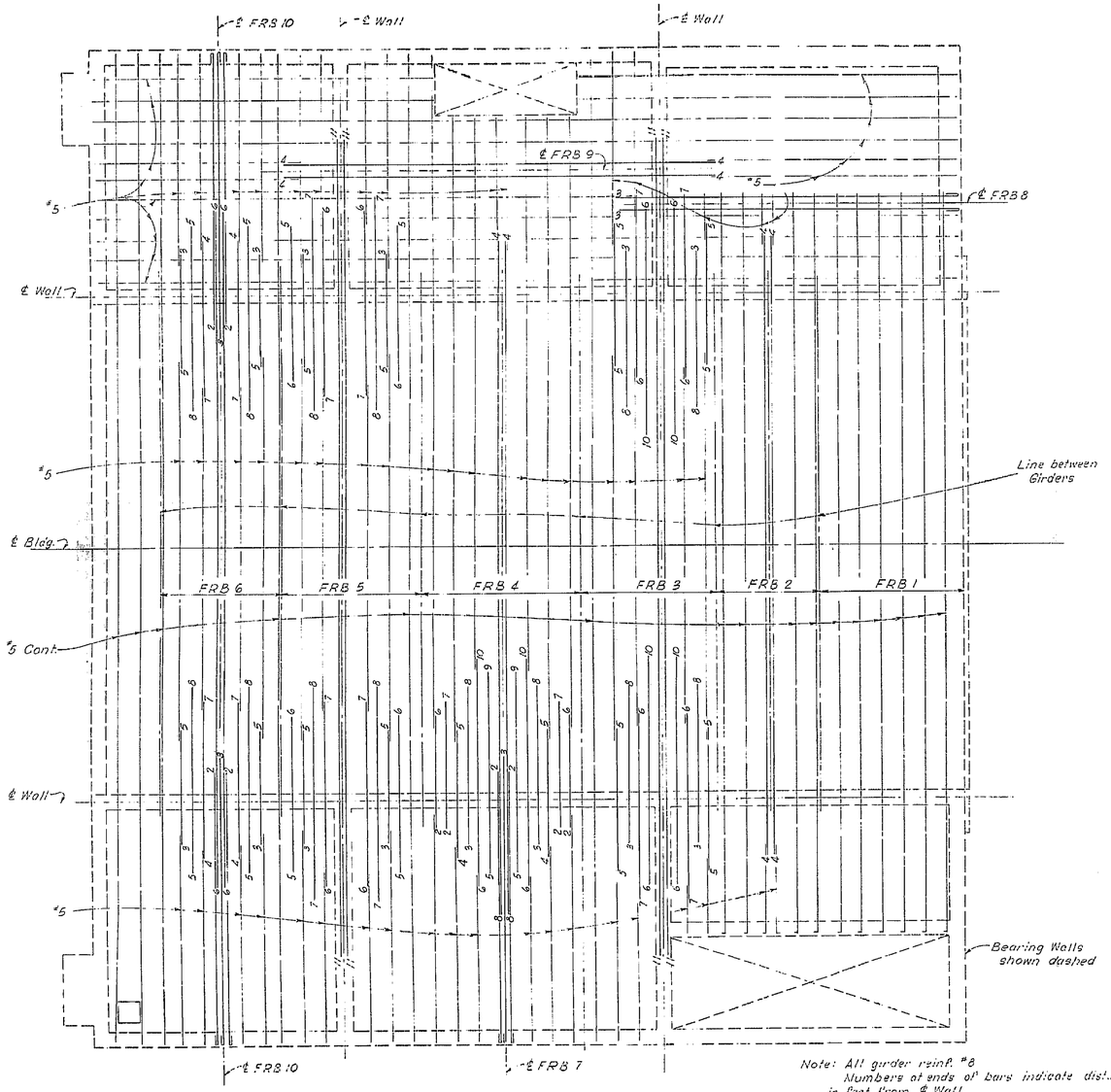
U-00339-1 (1)

| FED. ROAD DIST. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 64 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | LOS ANGELES | 15 | Oak. A | 24 | 28 |

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSED ENGS.

DATE APPROVED August 29, 1960




TOP GIRDER REINF.

Note: All girder reinf. #8 Numbers at ends of bars indicate distance in Feet from ℄ Wall. For girder location & details see "Plan at Fan Room" & "Fan Room Floor Details #1" sheets.

64

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 3510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 29, 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. BLACK
TRACINGS CORRECTED BY: DATE: 2-9-65

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8
Project Designer: W. H. Chaney
Chief Designer: Alan H. Regenwald

| | | | |
|---|---|---|---|
| DESIGN | W. H. Chaney 7-59 | Checked | R. Johnson 2-60 |
| DETAILS | | Checked | R. Johnson 2-60 |
| QUANTITIES | | Checked | |
| SPECIFICATIONS | | Plans and Specs. Prepared | |
| Approval Recommended by | | | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

FAN ROOM FLOOR-GIRDER REINF. #1

| SCALE | None | BRIDGE | 28-151 | FILE | | DRAWING | C-5978-24 |
|---|---|---|---|---|---|---|---|

P.X 235 Disregard prints bearing earlier numbers

PREL. DRAWING No. P-5978

87

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DATE SIGNATURE TITLE

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SCALE 1" = 50'
SCALE 1" = 20'
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U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 65 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
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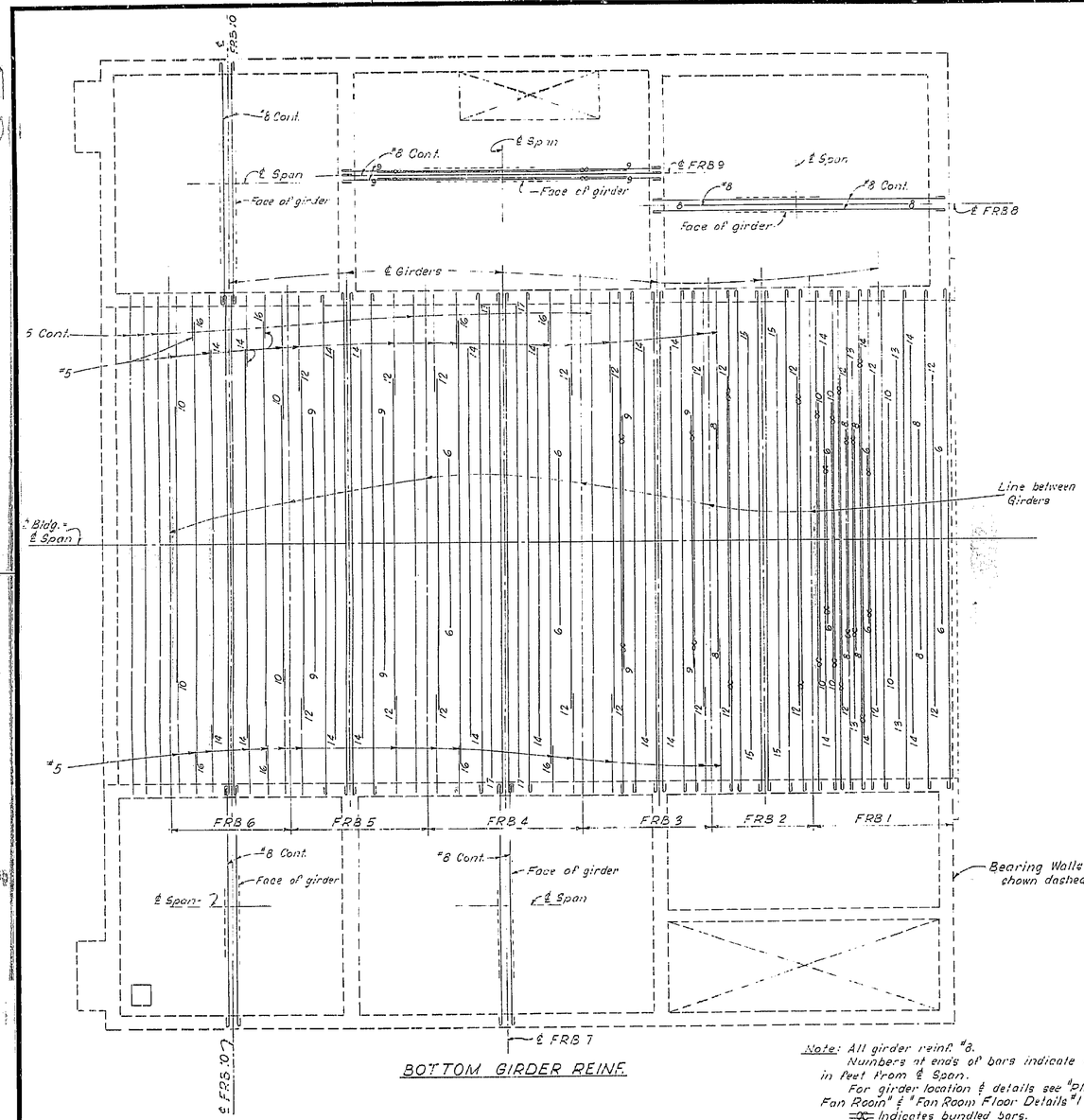
Bridge Engineer — Civil Engineer—Bridge Sec.

Date Approved August 29, 1960




BOTTOM GIRDER REINF.

Note: All girder reinf. #8.
Numbers at ends of bars indicate distance in feet from ℄ Span.
For girder location & details see "Plan at Fan Room" & "Fan Room Floor Details #1" sheets.
=x= Indicates bundled bars.

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: VG DATE: 6-9-65

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer W. H. Cheeney
Chief Designer Ann H. Degenkolb

| | | | |
|---|---|---|---|
| DESIGN | W. H. Cheeney 7-59 | Checked R. Johnson 2-60 | |
| DETAILS | [illegible] 7-59 | Checked R. Johnson 2-60 | |
| QUANTITIES | [illegible] 2-60 | Checked [illegible] | |
| SPECIFICATIONS | | Plans and Specs. Compared | |

Approval Recommended by [illegible] Engineer of Design — Civil Engr. License No. [illegible]

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

FAN ROOM FLOOR-GIRDER REINF. #2

SCALE None | BRIDGE 28-15 L | FILE | DRAWING C-5978-25

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978 | 107 | 3049 | 947 | 659 | 88

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DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

65

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| FED. ROAD DIV. NO | STATE | F. A. PROJECT NO. | SHEET NO | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 66 | 163 |

U-0039-1 (1)

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
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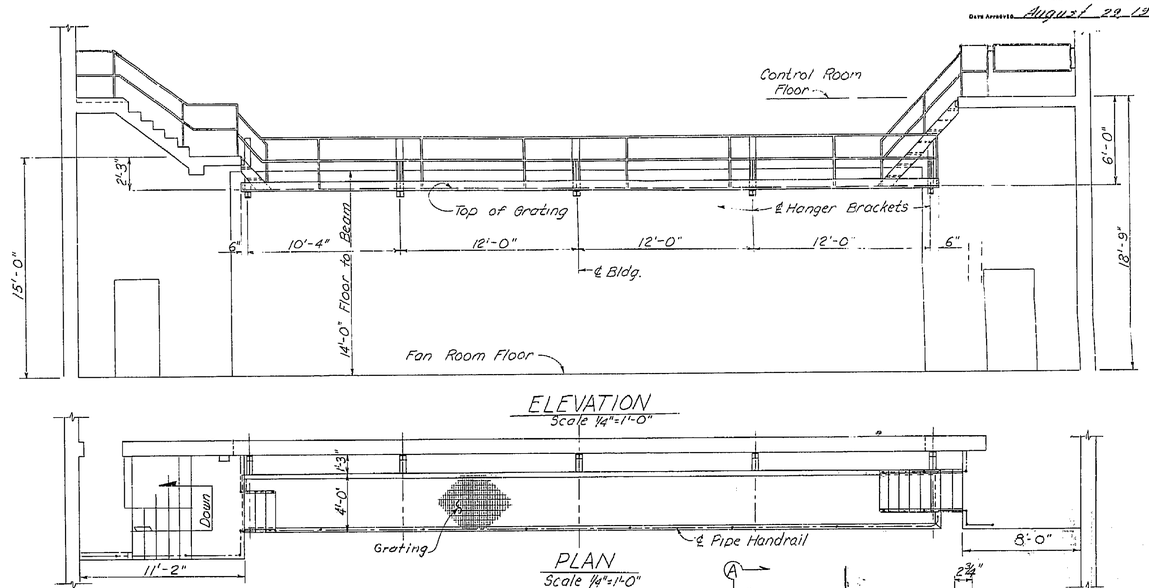
Date Approved August 29 1960



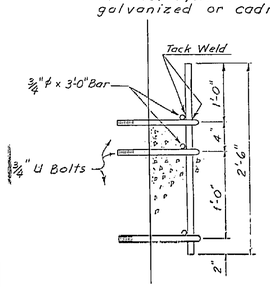

ELEVATION
Scale 1/4"=1'-0"



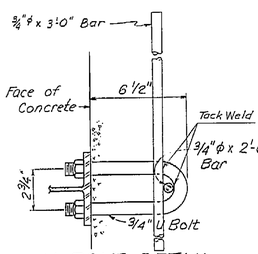

PLAN
Scale 1/4"=1'-0"

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

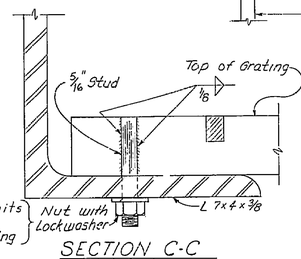
Note:
Galvanize all units of the assembly after fabrication.
All bolts, nuts and washers to be galvanized or cadmium plated.



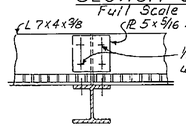

ELEVATION
Scale: 1 1/2"=1'-0"



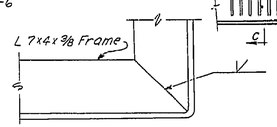

U BOLT DETAIL
Scale 3"=1'-0"
PLAN



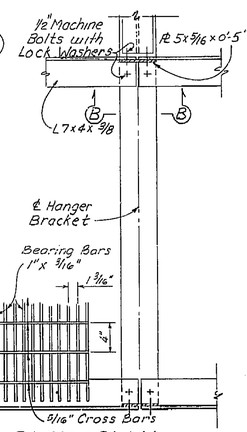

SECTION C-C
Full Scale



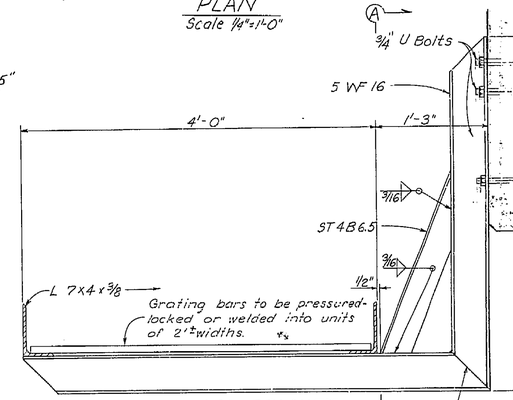

SECTION B-B
Scale 1 1/2"=1'-0"



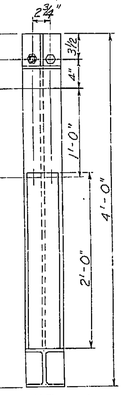

CORNER DETAIL
Scale 3"=1'-0"




PART PLAN
Scale 1 1/2"=1'-0"




HANGER BRACKET
Scale: 1 1/2"=1'-0"




SECTION A-A
Scale 1 1/2"=1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1965, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: DATE:

BRIDGE DEPARTMENT
... DESIGN SECTION ...
8
Project Designer
Chief Designer

| | | | |
|---|---|---|---|
| DESIGN | | Date | |
| DETAILS | | Date | |
| QUANTITIES | | Date | |
| SPECIFICATIONS | | | |
| Approval Recommended by | Bridge Engineer | Civil Eng. License No. | Expires |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

FAN ROOM CATWALK

| SCALE As Noted | BRIDGE 28-15L | FILE | DRAWING C-5978-26 |
|---|---|---|---|

8X 235 Disregard prints bearing earlier numbers

PREL. DRAWING No. P-5978

66

89

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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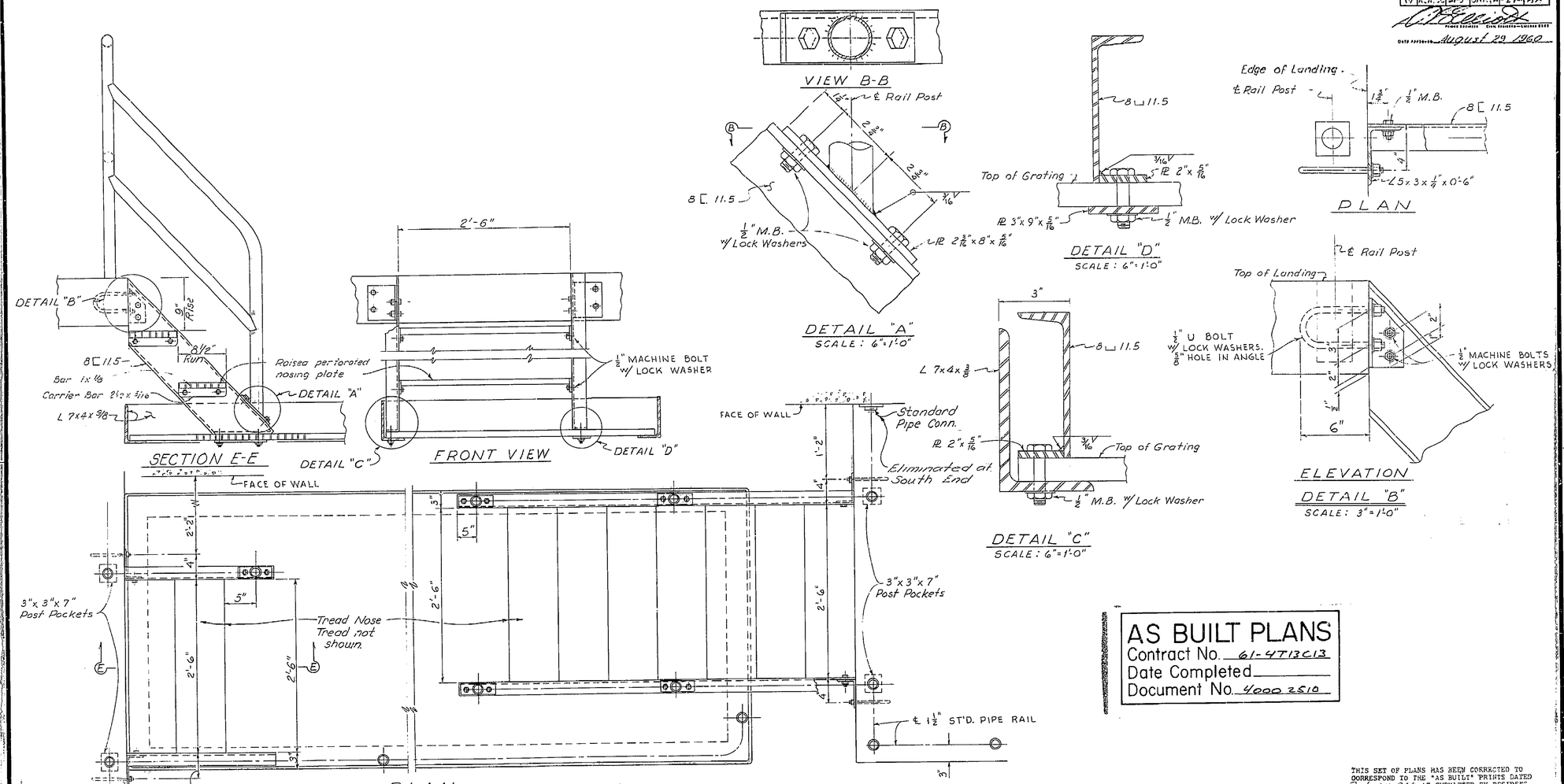
U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 67 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 10 | L.A. | 5 | ONKA | 67 | 82 |

PLANS APPROVED — DATE APPROVED August 22 1960




Note:
Both stairs similar. All details shown are typical.
Galvanize all units of the assembly after fabrication.
All bolts, nuts and washers to be galvanized or cadmium plated.

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-7-1965 AS SUBMITTED BY RESIDENT ENGINEER F. W. Black
TRACINGS CORRECTED BY: V.G. DATE: 8-9-65

67

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8
Project Designer: L. D. Chagnay
Chief Designer: Alvin H. Degenkolb

| | | | |
|---|---|---|---|
| DESIGN | By L.D. Chagnay 1-60 | Checked R. R. Johnson 2-60 | |
| DETAILS | By N. Chang 1-60 | Checked R. R. Johnson 2-60 | |
| QUANTITIES | By J. Nielsen 2-60 | Checked N. Chang 2-60 | |
| SPECIFICATIONS | By | Flow and Sym. Checked | |

Approval Recommended by W. H. Ford, Head of Design — CHS Engr. Licensed No. 6729

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

METAL CATWALK STAIR DETAILS

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| AS NOTED | 28-15L | | C-5913-27 |

Bx 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 5978

90

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-1-71 SIGNATURE [illegible] TITLE [illegible]

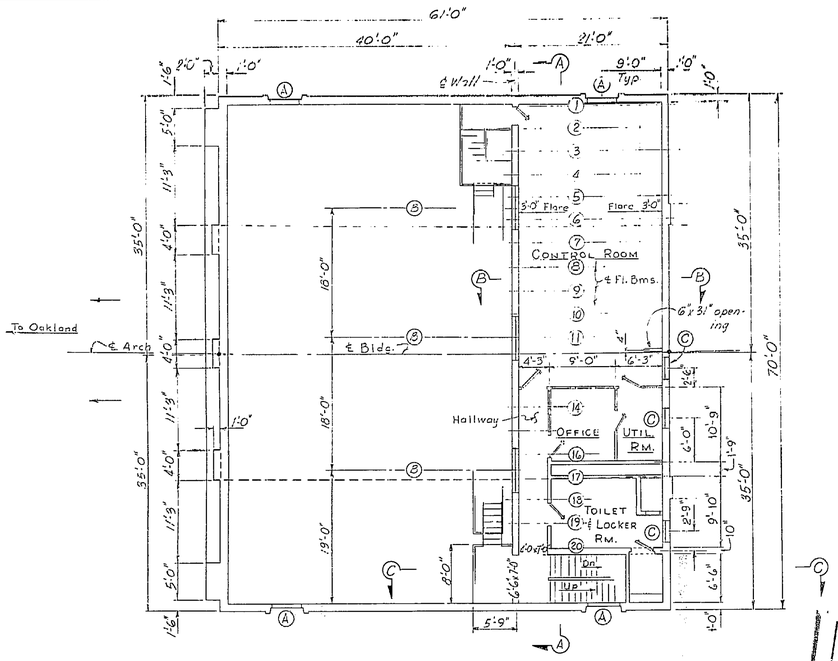
ClibPDF - www.fastio.com
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 68 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| IV | [illegible] | 75 | Oak-A | 28 | 83 |

Date Approved August 29 1960

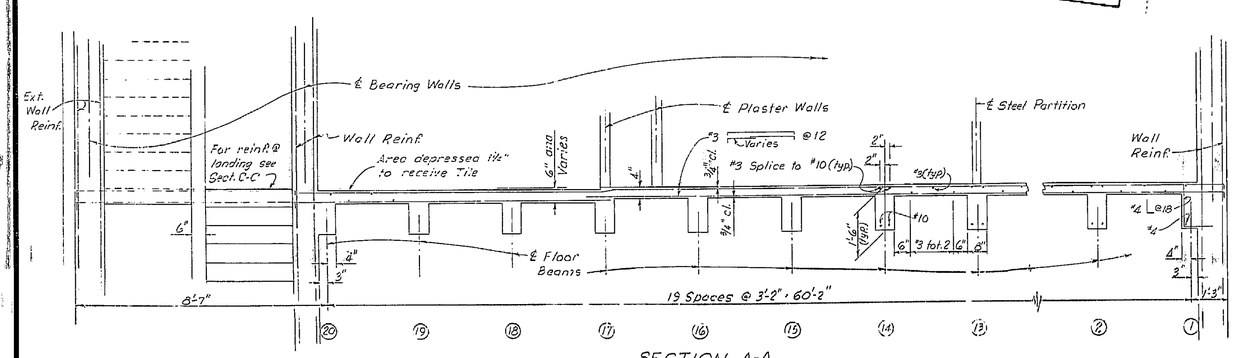



WEST PORTAL BUILDING

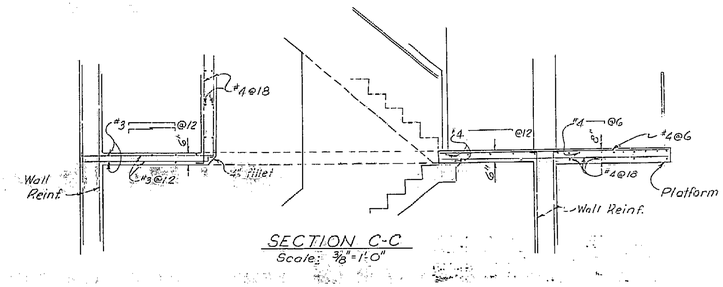
For details not shown see "Control Room Floor Details", Window Details", "Door Details", "Fan Rm. Catwalk" sheets.

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Blank
TRACINGS CORRECTED BY: VG DATE: 6-9-65




SECTION A-A
Scale: ½" = 1'-0"




SECTION C-C
Scale: ⅜" = 1'-0"

Note: For Section B-B and Flare Detail see "Plan At Storage Floor" sheet.

| BRIDGE DEPARTMENT | | | |
|---|---|---|---|
| ··· DESIGN SECTION ··· | | | 8 |
| Project Designer: W. A. Chesney | | | |
| Chief Designer: Jim H. Degnalle | | | |
| DESIGN | By W. A. Chesney 5-59 | Checked R. R. Johnson 2-60 | |
| DETAILS | By [illegible] 5-59 | Checked R. R. Johnson 2-60 | |
| QUANTITIES | By J. Wheeler 5-60 | Checked R. R. Johnson 2-60 | |
| SPECIFICATIONS | By | Plans and Specs. Compared | |
| Approved Recommended by: [signature] Engineer of Design | | Civil Engr. License No. 6729 | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY - TUNNEL

PLAN AT CONTROL ROOM

Except as noted SCALE ⅛" = 1'-0" | BRIDGE 28-15 L | FILE | DRAWING C-5978-28

PREL. DRAWING No. P-5978 | 1/62 | 10/62 | 20/62 | 4/62 | 5/62

BX 235

91

68

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

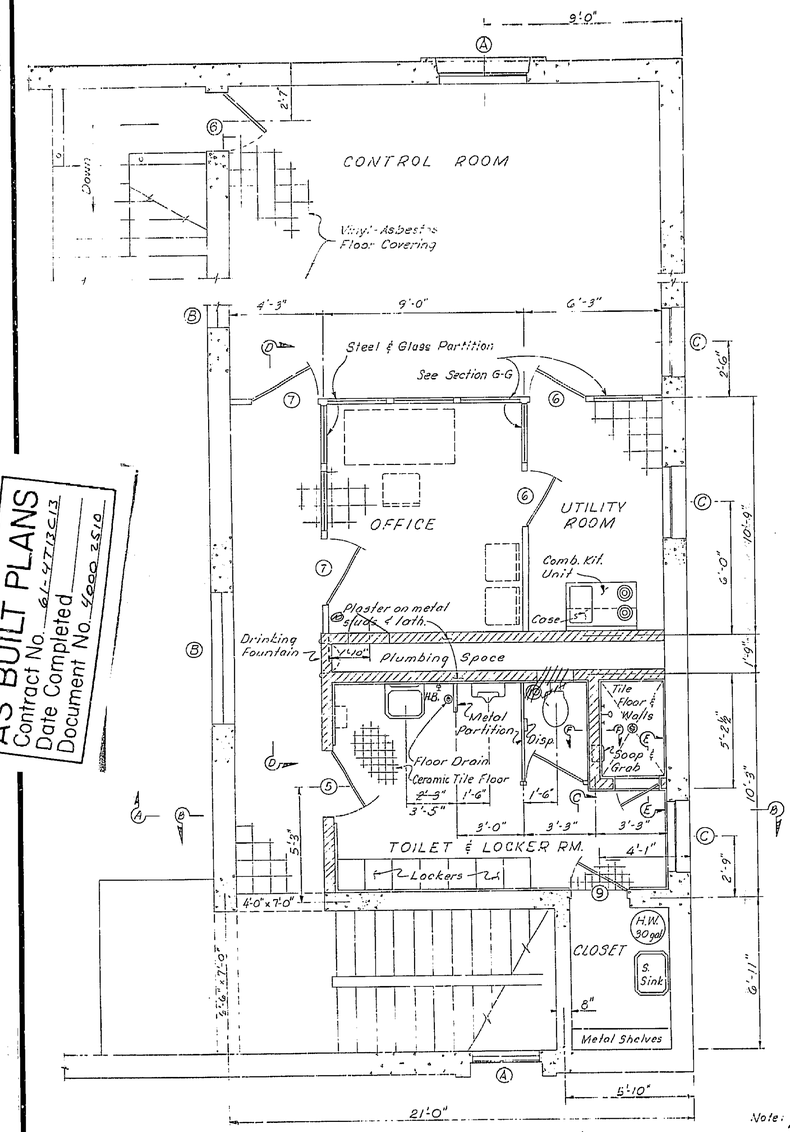
U-0039-1 (1)

| FED. ROAD DIST. NO. | STATE | F. A. PROJECT No. | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 69 | 163 |

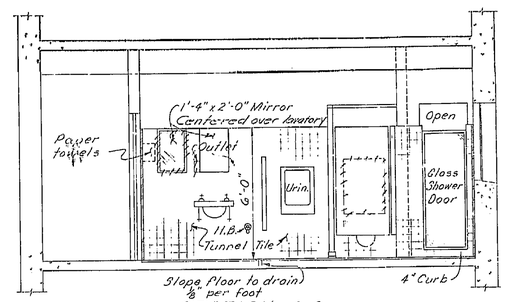
| DIST. | COUNTY | ROUTE | SECTION | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | SD.CO. | 10mm | Ont-A1 | 29m | 38 |

DISTRICT ENGINEER — CIVIL ENGINEER — ELECTRICAL ENGINEER

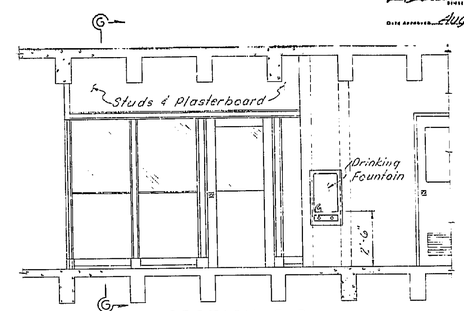
DATE APPROVED August 29, 1960



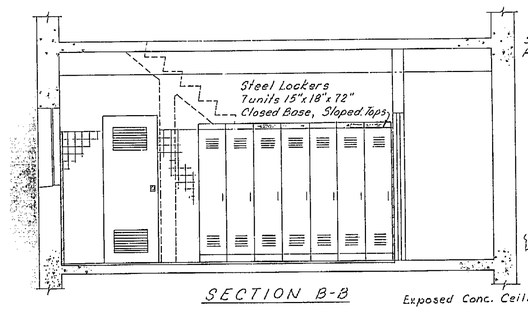

PART PLAN
West Portal Bldg.
Control Room Floor



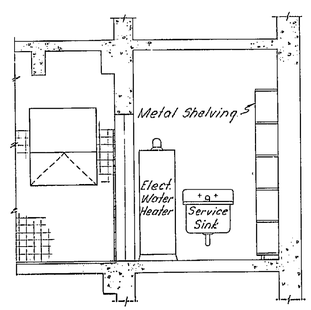

SECTION A-A



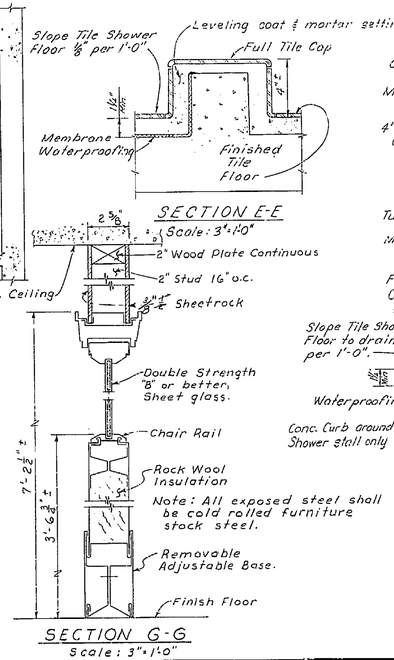

SECTION D-D




SECTION B-B

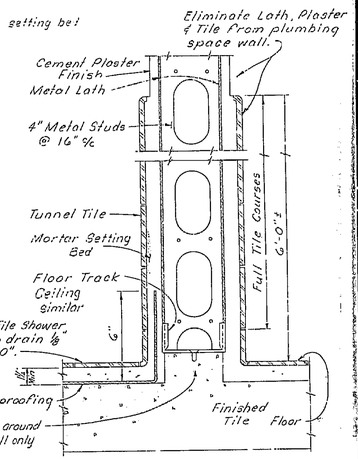



SECTION C-C




SECTION E-E
Scale: 3"=1'-0"

SECTION G-G
Scale: 3"=1'-0"




SECTION F-F
Scale: 3"=1'-0"

Note: For details not shown see "Plan At Control Room", "Door Details", "Window Details" sheets.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 28 1959, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: VG DATE: 6-9-65

AS BUILT PLANS
Contract No. 61-427213
Date Completed
Document No. 42000 2510

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: W. A. Chandler
Chief Designer: Chas. K. Reynolds

| | | | |
|---|---|---|---|
| DESIGN | By: F. W. Wardman 12-59 | Checked: R. R. Schram 2-60 |
| DETAILS | By: R. Kilcoyne 1-59 | Checked: R. R. Schram 2-60 |
| QUANTITIES | By: L. Whalen 2-60 | Checked: [illegible] 2-60 |
| SPECIFICATIONS | By: | Plans and Spec. Checked |

Approval Recommended by: [illegible] Engineer of Design — Civil Engr. License No. 6729

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

CONTROL ROOM FLOOR DETAILS

Except as noted SCALE 3/8" = 1'-0" | BRIDGE 28-19 L | FILE | DRAWING C-5978-29

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978

69

92

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-1-71 SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' 0 50 100
SCALE 1" = 20' 0 20 40 60
SCALE 1" = 20 0 50 100 200 300
ClibPDF - www.fastio.com

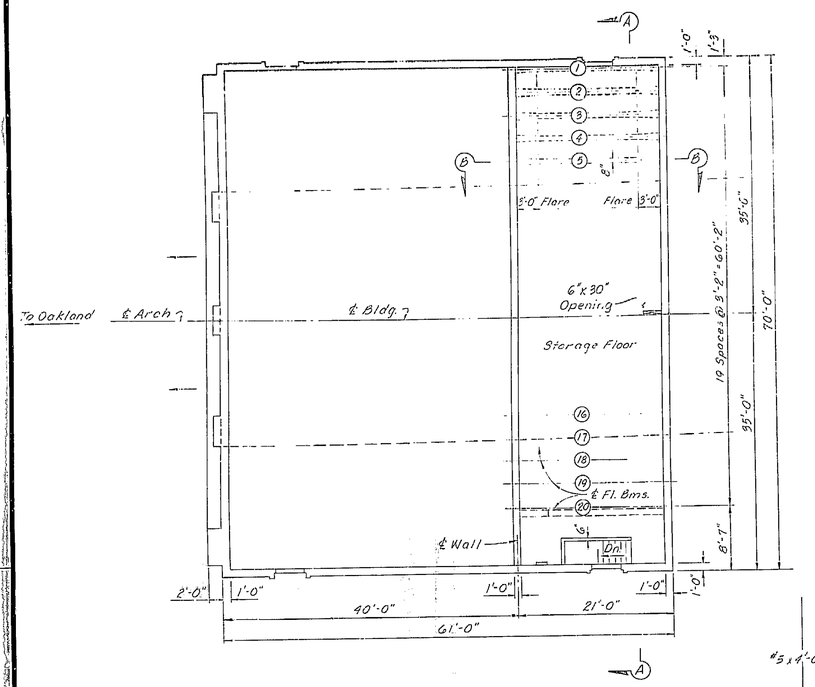
U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 70 | 163 |

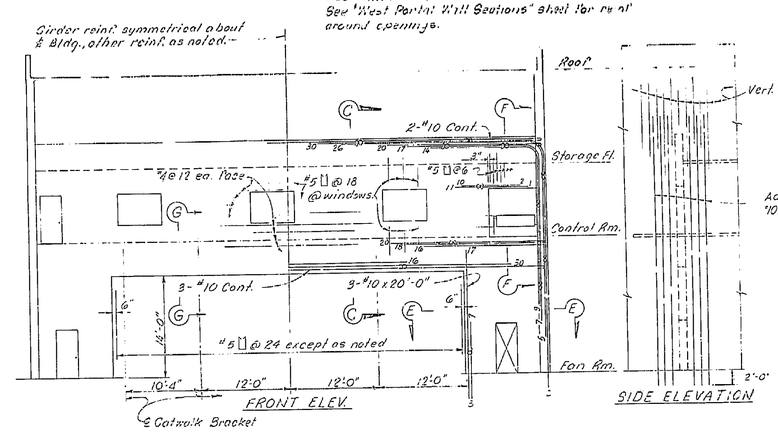
| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 1V | Ala. CC | 79 | Part of | 30 | 51 |

Date Approved August 29 1960

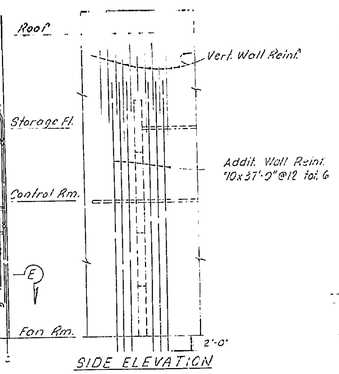
Note: All bars #10 unless noted otherwise.
Numbers at end of bars indicate distance in feet from ℄ Bldg., inside face of wall or Fan Room floor.
═══ indicates bundled bars.
See "West Portal Wall Sections" sheet for reinf. around openings.




WEST PORTAL BUILDING

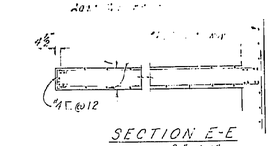



FRONT ELEV.

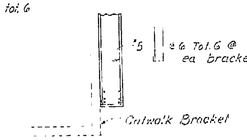



SIDE ELEVATION

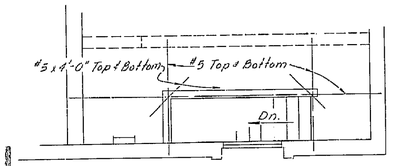
CONTROL ROOM AND STORAGE FLOOR GIRDER



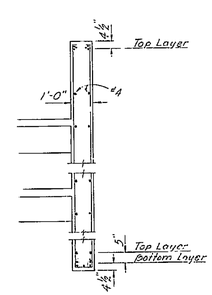

SECTION E-E
Scale: 3/8" = 1'-0"



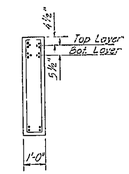

SECTION G-G
Scale: 3/8" = 1'-0"



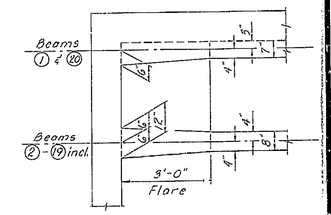

ADDITIONAL REINF. @ STAIRWELL
Scale: 1/4" = 1'-0"



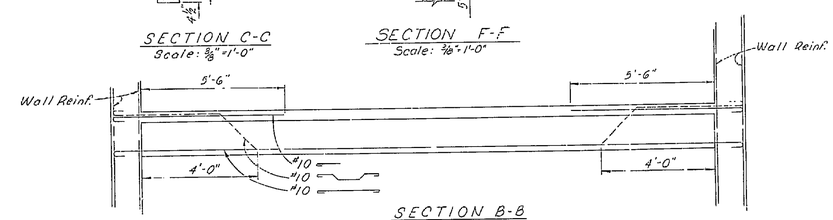

SECTION C-C
Scale: 3/8" = 1'-0"




SECTION F-F
Scale: 3/16" = 1'-0"

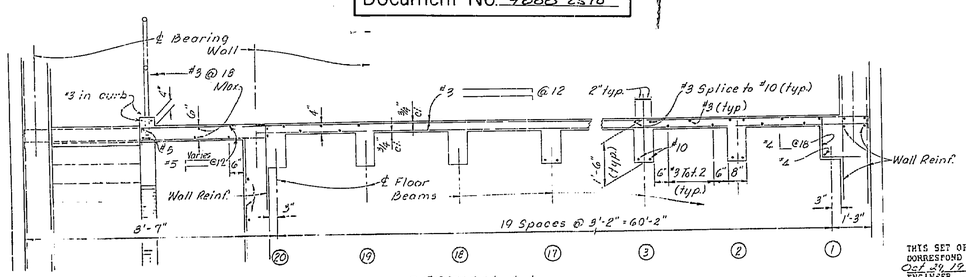



FLARE DIAGRAM
No Scale




SECTION B-B
Scale: 1/2" = 1'-0"
Detail shown is typical for Beams ② thru ⑲ incl.

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510




SECTION A-A
Scale: 1/2" = 1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 24 1964, AS SUBMITTED BY RESIDENT ENGINEER T. W. Clark
TRACINGS CORRECTED BY: [illegible] DATE: 5-9-65

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8

Project Designer: [illegible]
Chief Designer: [illegible]

| | | | |
|---|---|---|---|
| DESIGN | [illegible] 5-59 | Checked | [illegible] 2-59 |
| DETAILS | R. Kunsler 5-59 | Checked | [illegible] |
| QUANTITIES | [illegible] 4-60 | Checked | [illegible] |
| SPECIFICATIONS | | Plans and Specs. Completed | |

Approved Recommended by [illegible] Engineer of Design — Chief Engr. Bridge Dir. 6769

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

PLAN AT STORAGE FLOOR

SCALE 3/8" = 1'-0" or as noted | BRIDGE 28-15 L | FILE | DRAWING C-5978-30

PREL. DRAWING No. P-5978 [illegible] 93

70

BX 235

Disregard prints bearing earlier numbers →

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

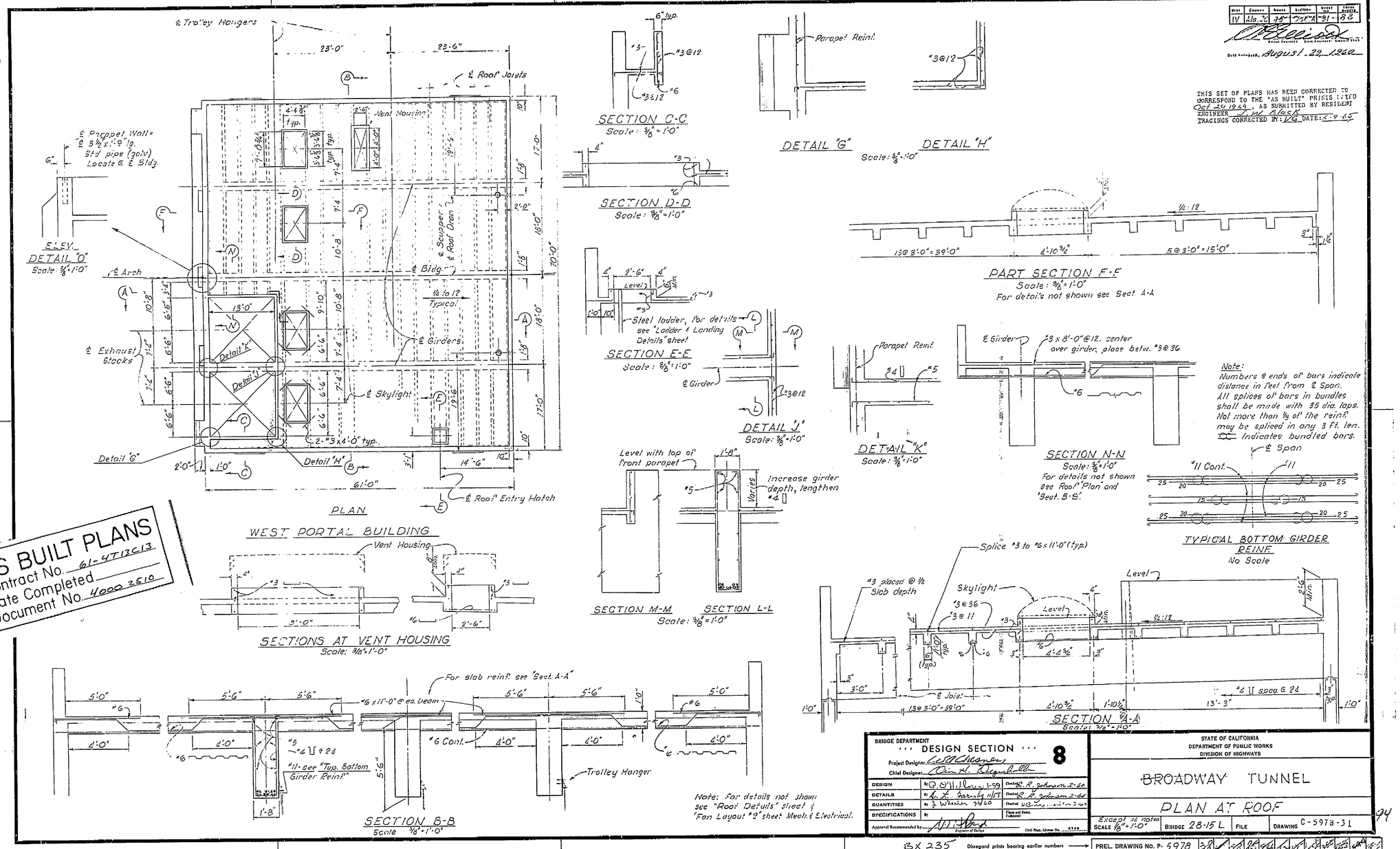
U-0039-1 (1)

| FED. ROADS DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 71 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | Ala. | 75 | 7.1-A | 31 | 82 |

Date approved August 29, 1962

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: LG DATE: 5-9-65




AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

71

BRIDGE DEPARTMENT
DESIGN SECTION
8
Project Designer: Carl Chesman
Chief Designer: Alan H. Dalgleish

| | | | |
|---|---|---|---|
| DESIGN | By O. O'H. Clancy 1-59 | Checked R. R. Johnson 2-60 | |
| DETAILS | By A. L. Farnsly 1/58 | Checked R. R. Johnson 2-60 | |
| QUANTITIES | By J. Wheeler 5/60 | Checked H. Hastings 2-60 | |
| SPECIFICATIONS | By | Plans and Specs. Checked | |

Approval Recommended by: Engineer of Design
Civil Engr. License No. 4729

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

PLAN AT ROOF

Except as noted
SCALE 1/8"=1'-0" | BRIDGE 28-15 L. | FILE | DRAWING C-5978-31

BX 235 Disregard prints bearing earlier numbers

PREL. DRAWING No. P-5978

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

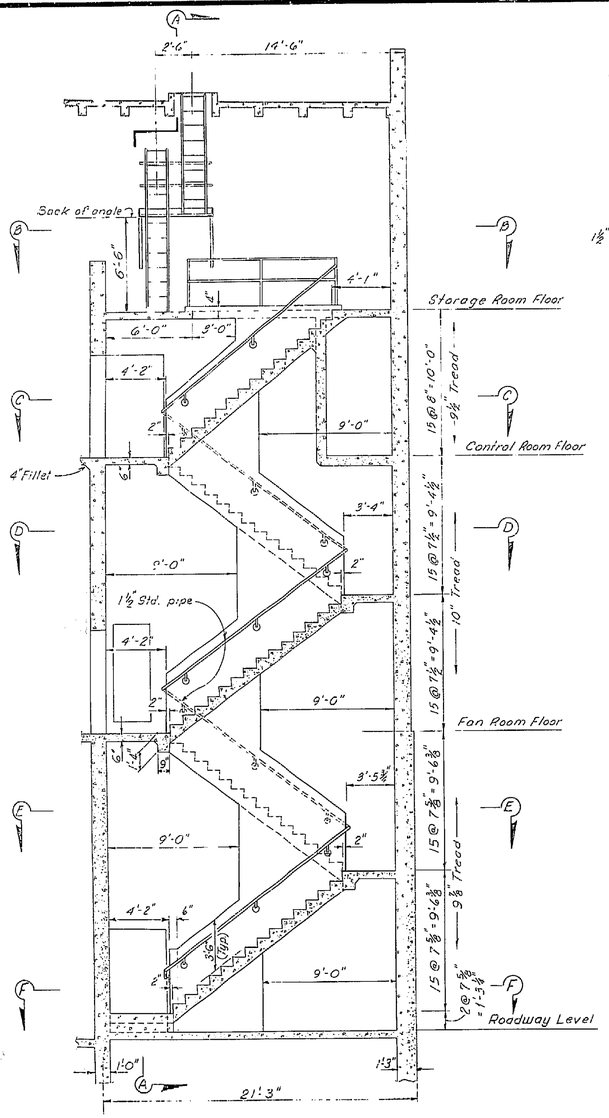
U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 73 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| IV | Alm, CC | 16 | Oak, 1A | 49 | 89 |

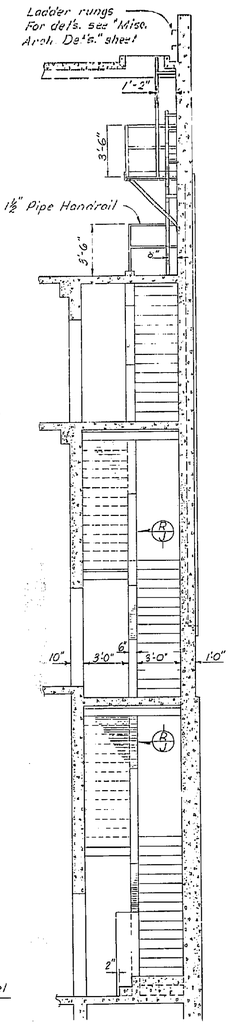
SIGNIFIES ELECTRIC CONDUCTOR ENGINEERING DATA

DATE APPROVED August 29 1960

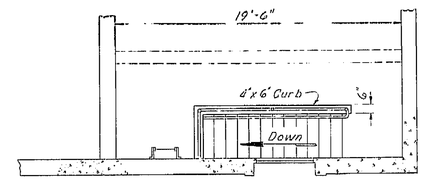



STAIRWELL ELEVATION

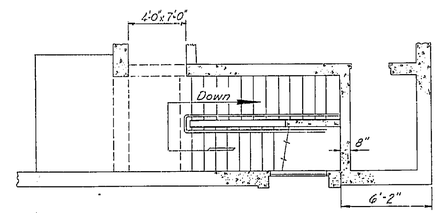
Elev. taken inside face exterior wall looking North.



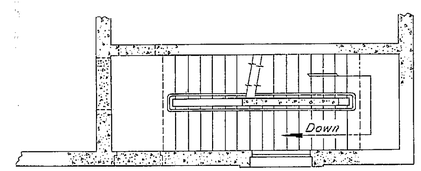

SECTION A-A



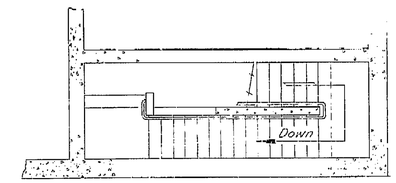

SECTION B-B



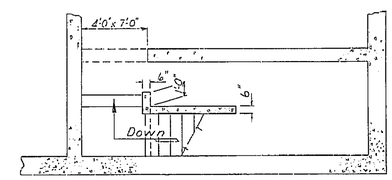

SECTION C-C



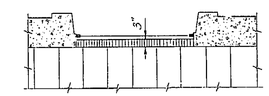

SECTION D-D



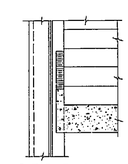

SECTION E-E



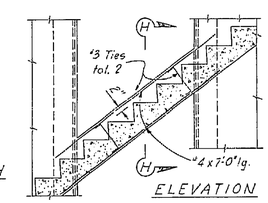

SECTION F-F



PLAN



SECTION H-H




ELEVATION

STAIR CURB AT WINDOW DETAIL

Scale: ½"=1'-0"

Note: For reinf. details (7) see "Typ. Stair Reinf. Details" sheet

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 24 1963, AS SUBMITTED BY RESIDENT ENGINEER J. M. Black
TRACINGS CORRECTED BY: KG DATE: 2-9-65

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: Leo H. Chesney
Chief Designer: Chas. H. Raymond

| | | | |
|---|---|---|---|
| DESIGN | By L.H.C. 1/61 | Checked R. P. Johnson 2-60 | |
| DETAILS | By R. Kuroko 1-59 | Checked R. P. Johnson 2-60 | |
| QUANTITIES | By J. W. Weber 2-60 | Checked H. Bunzmann 2-60 | |
| SPECIFICATIONS | By | Plans and Specs. Checked | |

Approved Recommended by: H. H. Head, Engineer of Design
Civil Dep. License No. 6789

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

W. PORTAL BLDG. STAIR DETAIL NO. 1

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| ½"=1'-0" or as noted | 28-15L | | C-5978-33 |

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978 | 1-58 | 1-59 | 2-60 | 2-65

96

73

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' SCALE 1"=20' SCALE 1"=10' or 1"=100' SCALE 1"=40'

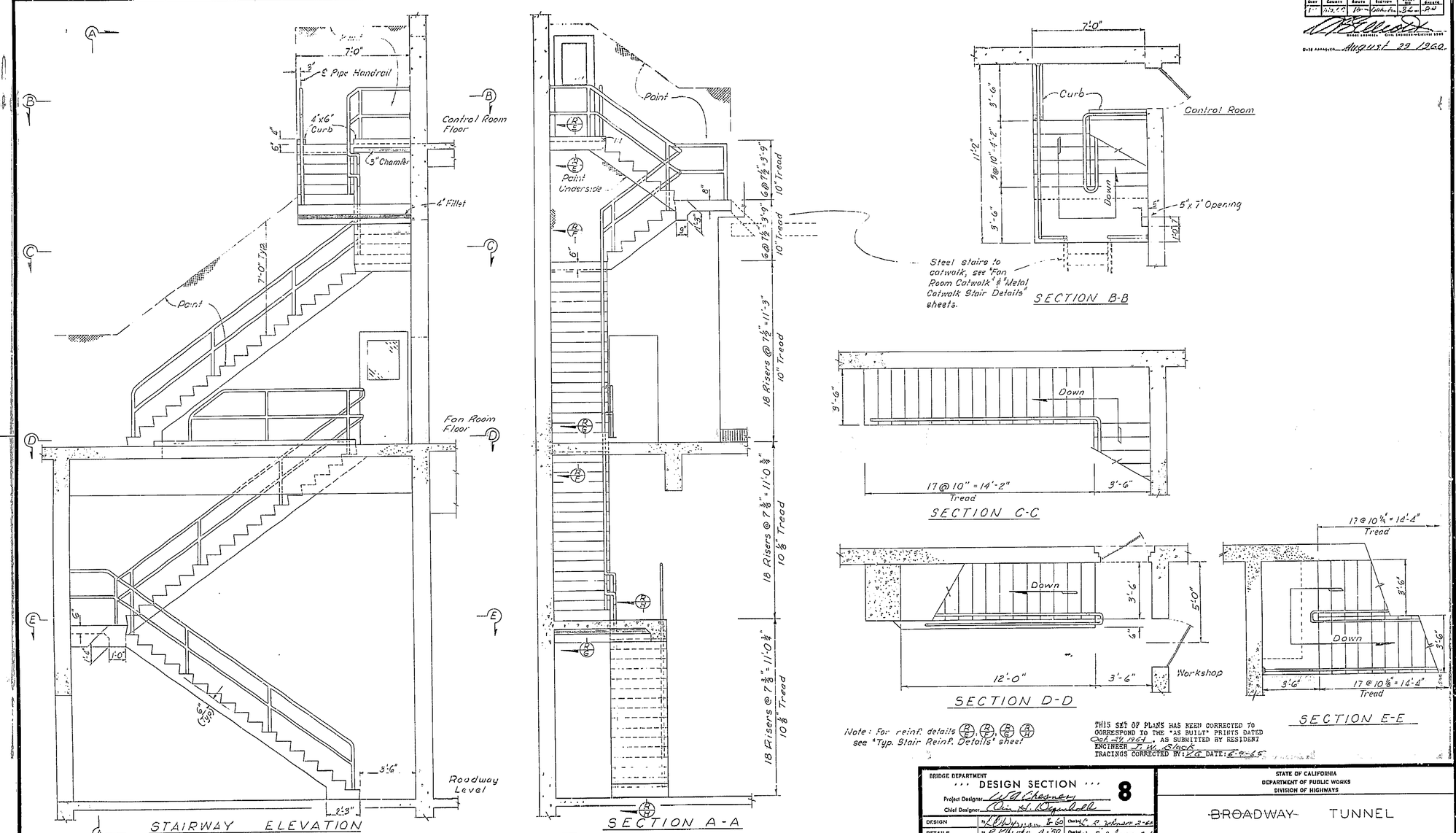
ClibPDF - www.fastio.com

U-0039-1 (1)

| FED. ROAD DIST. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF | | 74 | 169 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 1-7 | L.A., O.C. | 10-11 | Gdh.-Fr. | 32-2 | 84 |

DATE PREPARED: August 29 1960.




Note: for reinf. details (E), (F), (G), (H) see "Typ. Stair Reinf. Details" sheet

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 4, 1965 AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: VG DATE: 6-0-65

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8

Project Designer: W. A. Chesney
Chief Designer: Wm. H. Wagenbach

| | | | |
|---|---|---|---|
| DESIGN | W. A. Chesney 2-60 | Checked | C. R. Johnson 2-60 |
| DETAILS | R. Ellicks 4-59 | Checked | C. R. Johnson 2-60 |
| QUANTITIES | J. Wilson 2-60 | Checked | [illegible] |
| SPECIFICATIONS | | Field and Revis. Computed | |

Approved Recommended by: W. O. Peck, Asst. Engineer — Civil Engr. License No. 6720

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

W. PORTAL BLDG. STAIR DETAIL NO. 2

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| ⅜" = 1'-0" or as noted | 28-15L | | C-5918-34 |

Bx 235 — Disregard prints bearing earlier numbers

PREL. DRAWING No. P-5978

74

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONWHOL ON THIS DATE IN SACRAMENTO, CALIFORNIA PUNSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-1-71 SIGNATURE [illegible] TITLE [illegible]

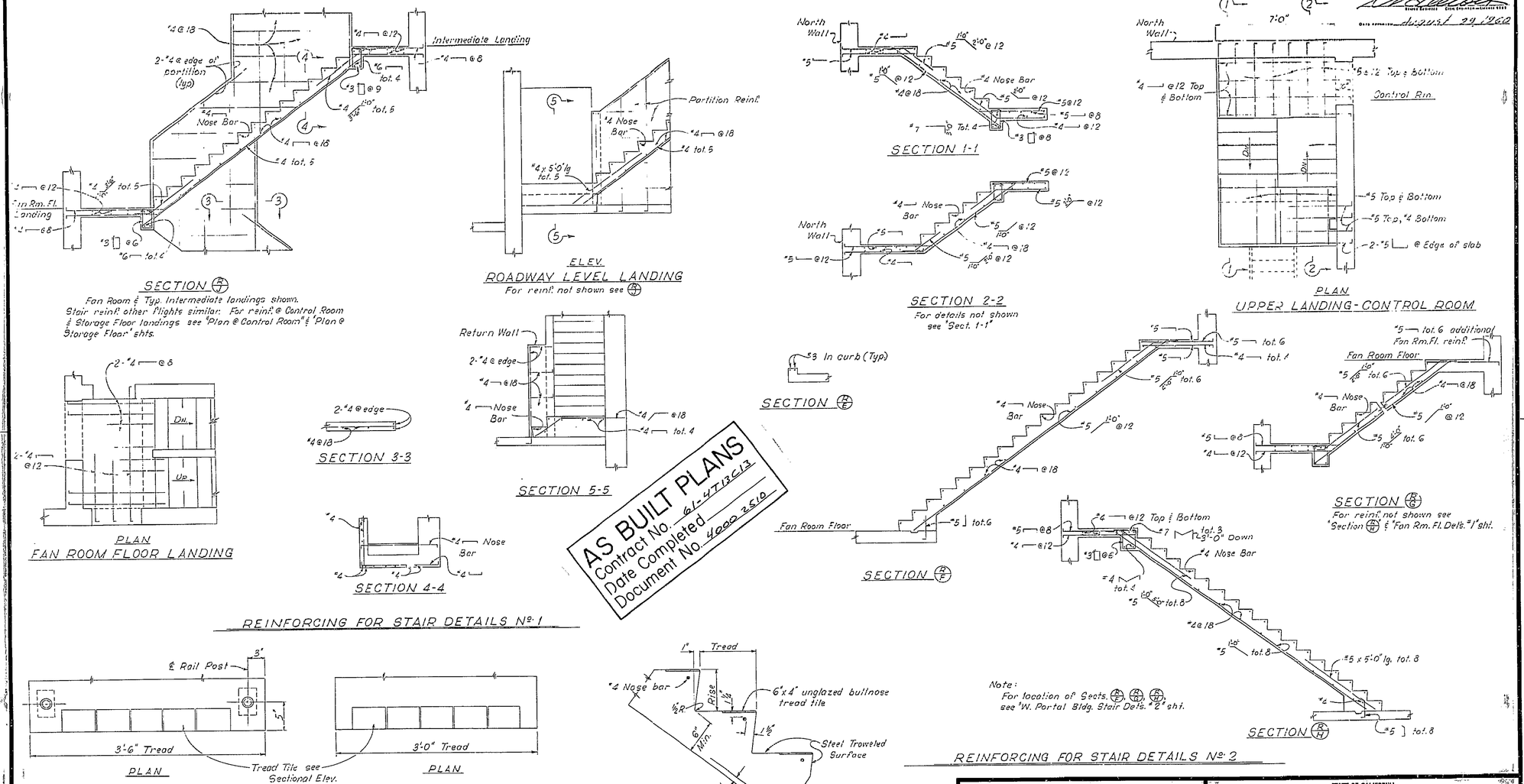
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' SCALE 1" = 10' SCALE 1" = 20' SCALE 1" = 20
ClibPDF - www.fastio.com

U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 75 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | Alameda | 75 | Group 4 | 55 | 98 |

Date approved August 29, 1962




THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS, Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: WG DATE: 8-4-65

BRIDGE DEPARTMENT
··· DESIGN SECTION ···
8

Project Designer: W. P. Chapman
Chief Designer: Alvin H. Rosenbloom

| | | | |
|---|---|---|---|
| DESIGN | By R. R. Wymore 1-60 | Checked R. R. Wymore 2-60 | |
| DETAILS | By C. K. Hornsby 1-60 | Checked R. Johnson 2-60 | |
| QUANTITIES | By J. Whalen 2-60 | Checked | |
| SPECIFICATIONS | By | Plans and Specs Checked | |

Approved Recommended by: Chief of Design — Chief Dept. Design Engr. — STAFF

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

TYPICAL STAIR REINF. DETAILS

Except as noted SCALE 3/8" = 1'-0" | BRIDGE 28-15L | FILE | DRAWING C-59/8-35

EX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978 | 98

75

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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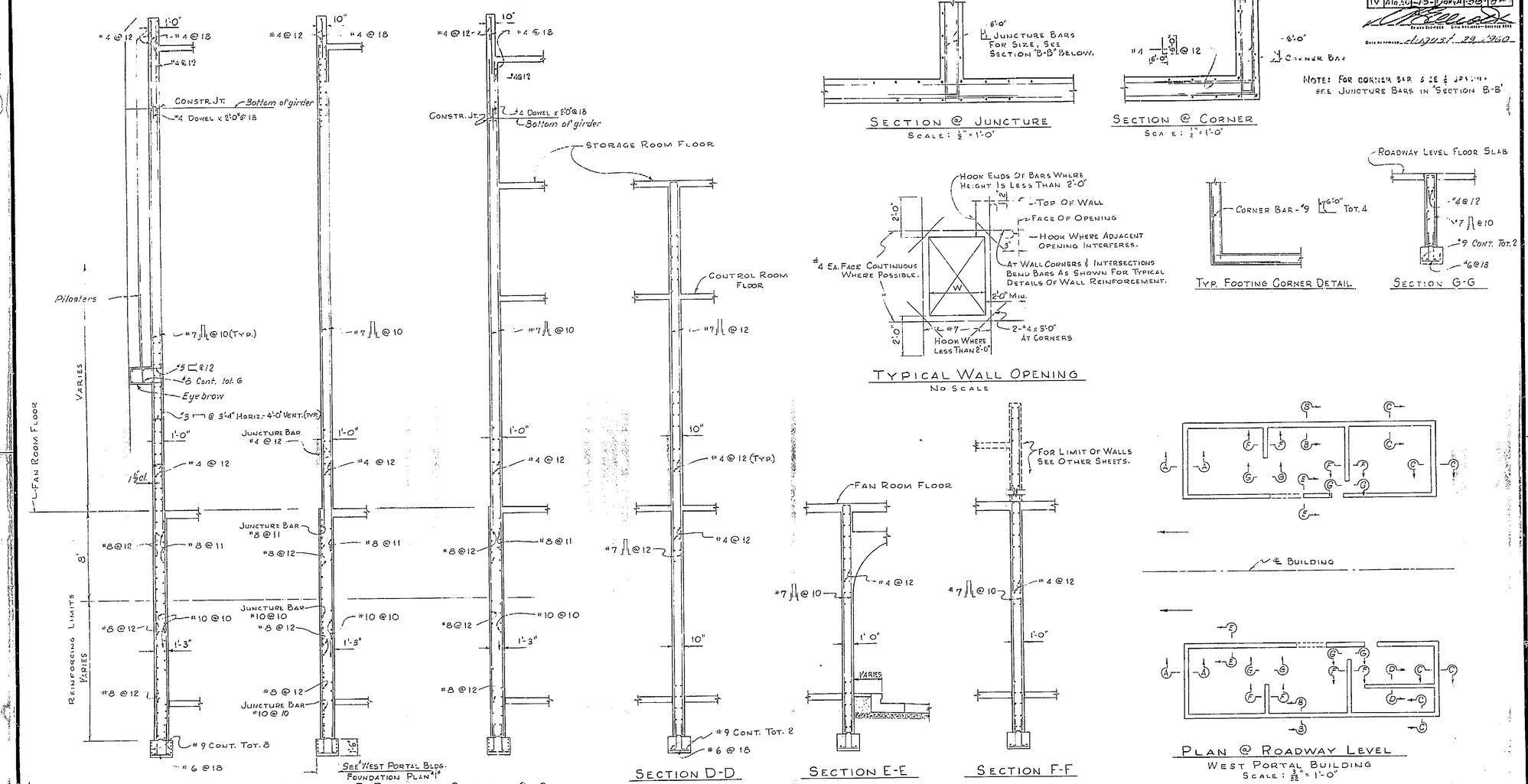
U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 76 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| IV | Alameda | 75 | Oakland | 36 | 84 |

Date Approved August 29, 1960




Section A-A

Section B-B

Section C-C

Section D-D

Section E-E

Section F-F

Plan @ Roadway Level
West Portal Building
Scale: 3/32" = 1'-0"




Section @ Juncture
Scale: 1/2" = 1'-0"

Section @ Corner
Scale: 1/2" = 1'-0"

Typical Wall Opening
No Scale

Typ. Footing Corner Detail

Section G-G

AS BUILT PLANS
Contract No. 61-471213
Date Completed
Document No. 4000 2510

76

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 27 1967 AS SUBMITTED BY RESIDENT ENGINEER W. Black
TRACINGS CORRECTED BY: EG DATE: 7-4-65

Note: For Details Not Shown See "Front & Rear Walls Reinf. Details", "Fan Room Floor Details #1", "Plan At Roadway Level", West Portal Bldg. Foundation Plan #1" sheets.

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: W. H. Chaney
Chief Designer: Carl H. Rhyne
DESIGN: By D. H. Wilson 1-59 Checked R. Johnson 2-60
DETAILS: By Checked R. Johnson 2-60
QUANTITIES: By J. Wheeler 2-60 Checked H. Burns 2-60
SPECIFICATIONS: By Plans and Revis. Checked
Approval Recommended by Engineer of Design
Civil Engr. License No. 4729

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

WEST PORTAL WALL SECTIONS

Except As Noted Scale 1/4" = 1'-0" | Bridge 28-151 | File | Drawing C-5978-36

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978 | 2/61 | 2/5/61 | 10/5/61 | 2/28/67 | 1/5/7 | 3/26/7 | 2/27/7

99

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-1-71 SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' SCALE 1" = 20' SCALE 1" = 20'
ClibPDF - www.fastio.com

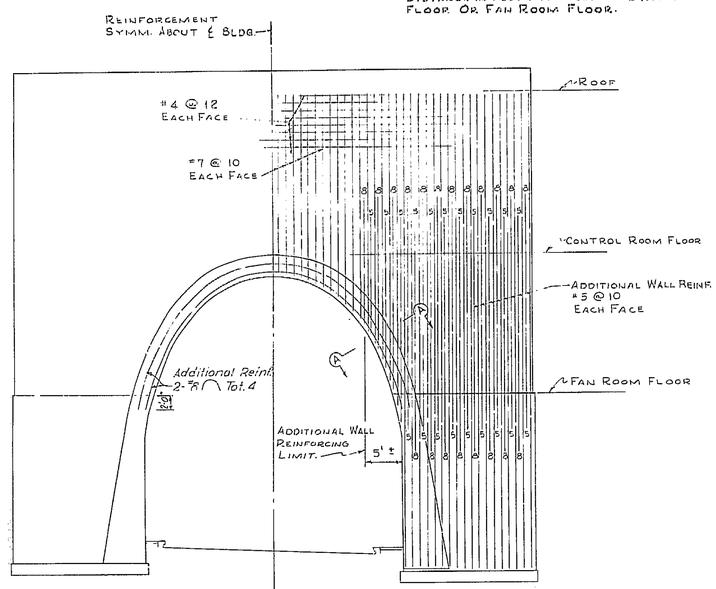
U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 77 | 163 |

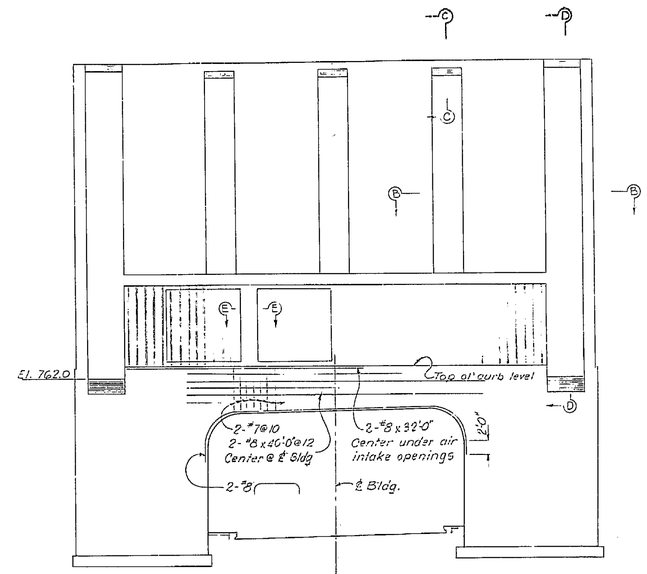
| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | SD | 75 | UNIT A | 37 | 80 |

DATE APPROVED August 29 1962

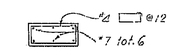
NOTE:
NUMBERS AT ENDS OF BARS INDICATE DISTANCE IN FEET FROM CONTROL ROOM FLOOR OR FAN ROOM FLOOR.



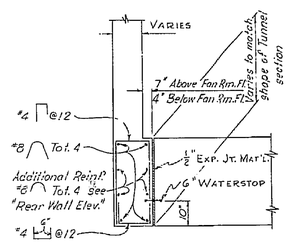

REAR WALL ELEVATION




FRONT WALL ELEVATION

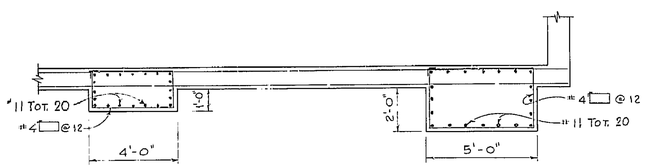



SECTION E-E
Scale: 3/8" = 1'-0"

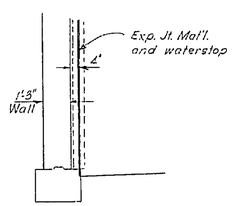



Note: Wall reinf. not shown

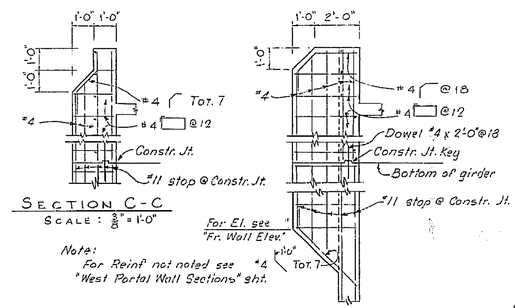
SECTION A-A
Scale: 1/2" = 1'-0"




SECTION B-B
Scale: 3/8" = 1'-0"
For Reinf not shown see "Sect. A-A", "West Portal Wall Sections" sheet




TUNNEL FTG. DETAIL @ PORTAL FTG.




SECTION C-C
Scale: 3/8" = 1'-0"

Note:
For Reinf not noted see "West Portal Wall Sections" sht.

SECTION D-D
Scale: 3/8" = 1'-0"

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

WEST PORTAL BUILDING

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 30 1964, AS SUBMITTED BY RESIDENT ENGINEER G. W. Slack
TRACINGS CORRECTED BY: W.G. DATE: 6-9-65

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: W. H. Chapman
Chief Designer: Wm. H. Riegelbeck

| | | | |
|---|---|---|---|
| DESIGN | W. O. Yellowlees 1-59 | Checked R. Johnson 2-60 | |
| DETAILS | W. L. [illegible] 1-59 | Checked R. Johnson 2-60 | |
| QUANTITIES | W. S. Wheeler 5-60 | Checked H. G. Thomas 2-60 | |
| SPECIFICATIONS | W. | Plans and Spec. Compared | |

Approval Recommended by [signature] Engineer of Design — Civil Engr. License No. ....6749....

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

FRONT & REAR WALLS REINF. DETAILS

EXCEPT AS NOTED
SCALE NONE | BRIDGE 28-15L | FILE | DRAWING 0-5[illegible]-0-1

BX 235 Disregard prints bearing earlier numbers

PREL. DRAWING NO. P-5973

77

100

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE [signature] TITLE Sr. Engr.

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' SCALE 1" = 20'
ClibPDF - www.fastio.com

U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 78 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 1V | Nev. | 80 | 7.5 - 0.0 | 33 | 33 |

DISTRICT ENGINEER — CHIEF ENGINEER — BRIDGE ENGINEER

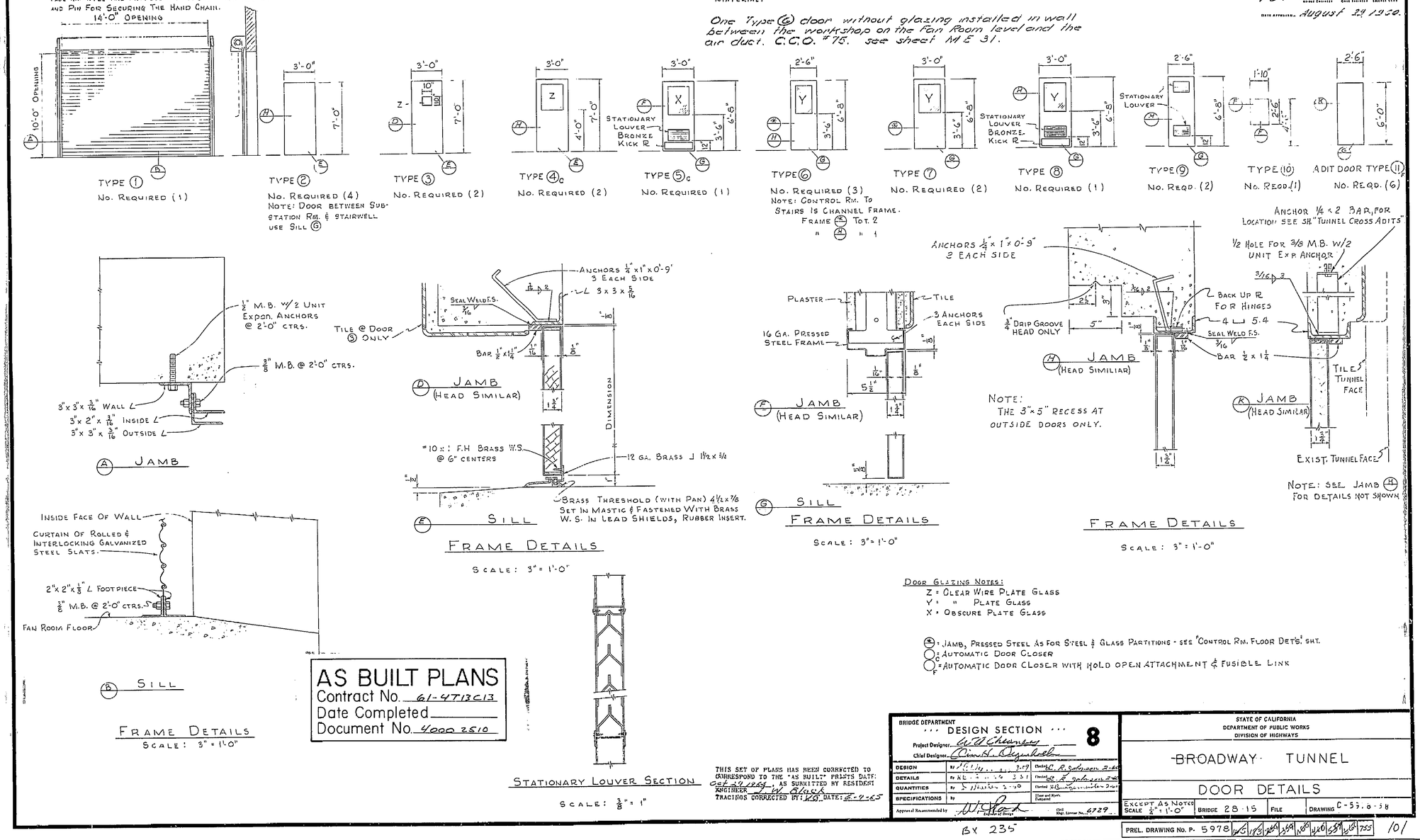
DATE APPROVED: August 24 1960.

DOOR TYPE (1)
14' x 10' STEEL ROLLING DOOR - CHAIN OPERATED - FACE MOUNTED AND PROVIDED WITH A CAST IRON KEEPER AND PIN FOR SECURING THE HAND CHAIN.

DOORS TYPE (2) (3) (4) & (11)
KALAMEIN - 16 OZ. COPPER CLAD, 1/2", 2 PLY FIR CORE. CONSTRUCTED EQUAL TO "OVERLY" "AETNA" OR "ATLAS" U.L. "B" LABELLED DOOR.

DOORS TYPE (5) (6) (7) (8) (9) & (10)
HOLLOW METAL DOORS TO BE FLUSH, 1 3/4", FORMED OF 16 GAGE STEEL FACE SHEETS & 18 GAGE INTERNAL STIFFENERS & SOUND DEADING MATERIAL.

*One Type (6) door without glazing installed in wall between the workshop on the Fan Room level and the air duct. C.C.O. #75. see sheet ME 31.*




DOOR GLAZING NOTES:
Z = CLEAR WIRE PLATE GLASS
Y = " PLATE GLASS
X = OBSCURE PLATE GLASS

(K) = JAMB, PRESSED STEEL AS FOR STEEL & GLASS PARTITIONS - SEE "CONTROL RM. FLOOR DET'S." SHT.
(C) = AUTOMATIC DOOR CLOSER
(F) = AUTOMATIC DOOR CLOSER WITH HOLD OPEN ATTACHMENT & FUSIBLE LINK

AS BUILT PLANS
Contract No. 61-4713C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATE: Oct. 29 1964, AS SUBMITTED BY RESIDENT ENGINEER W. Black
TRACINGS CORRECTED BY: KO DATE: 8-4-65

BRIDGE DEPARTMENT
... DESIGN SECTION ...
8

Project Designer: W. H. Cheanney
Chief Designer: Donald L. Reynolds

| | | | |
|---|---|---|---|
| DESIGN | By | Checked | |
| DETAILS | By | Checked | |
| QUANTITIES | By | Checked | |
| SPECIFICATIONS | By | Class and Work Evaluated | |
| Approval Recommended by | Chief of Design | Chief Engr. License No. | 4729 |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

DOOR DETAILS

EXCEPT AS NOTED SCALE 1/2" = 1'-0" | BRIDGE 28-15 | FILE | DRAWING C-53.0-3B

PREL. DRAWING NO. P-5978

78

BX 235

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

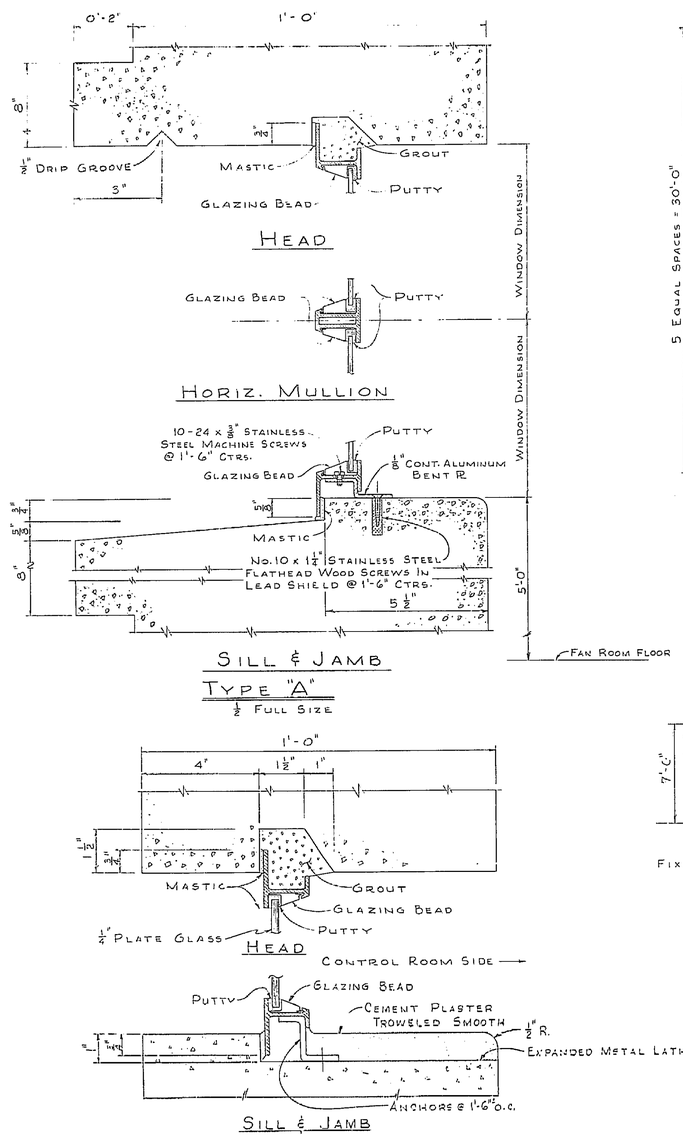
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
ClibPDF - www.fastio.com

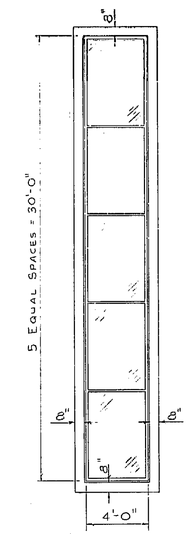
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 79 | 163 |

U-0039-1(1)

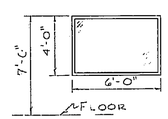
| DIST. | COUNTY | ROUTE | SECTION | PROJECT NO. | TOTAL PROJECT |
|---|---|---|---|---|---|
| 7 | Los Angeles | 15 | Oak-A | 39 | 88 |

DIST. ENGINEER, AUGUST 24, 1962

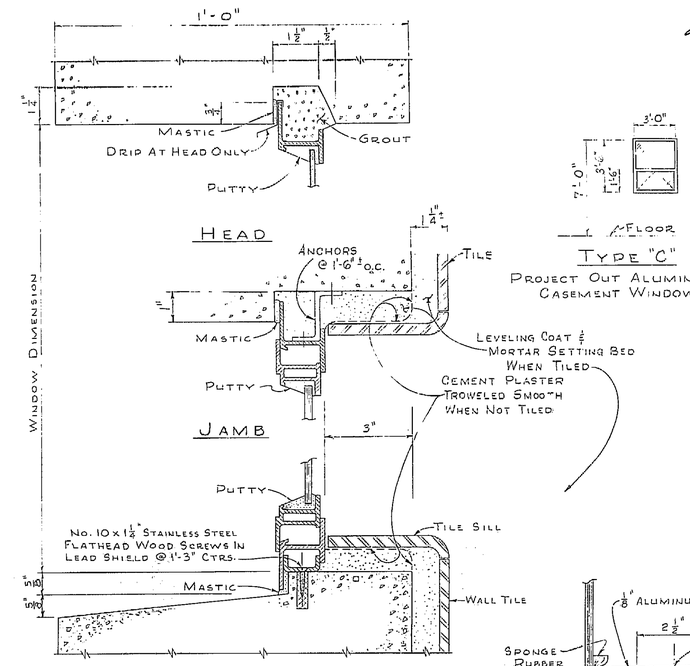



TYPE "A"
FIXED ALUMINUM WINDOWS




TYPE "B"
FIXED ALUMINUM WINDOW

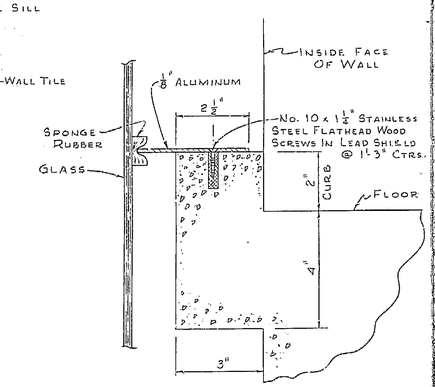



SILL
TYPE "C"
1/2 FULL SIZE




ALUMINUM TUBULAR SCREEN FRAMES & ROTO FLEX ARM OPERATOR

TYPE "C"
PROJECT OUT ALUMINUM CASEMENT WINDOW




CLOSURE BETWEEN FLOOR & WINDOW GLASS
1/2" FULL SCALE

NOTE:
ALL STRUCTURAL MEMBERS & GLAZING BEADS SHALL BE ALUMINUM

AS BUILT PLANS
Contract No. 61-4713C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 24 1962 AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: G. DATE: 6-1-65

| BRIDGE DEPARTMENT | | | | |
|---|---|---|---|---|
| DESIGN SECTION 8 | | | | |
| Project Designer: | | | | |
| Chief Designer: | | | | |
| DESIGN | By | | Checked | |
| DETAILS | By | | Checked | |
| QUANTITIES | By | | Checked | |
| SPECIFICATIONS | By | | Checked | |
| Approval Recommended by | | | | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

WINDOW DETAILS

| SCALE AS NOTED | BRIDGE 28-15 | FILE | DRAWING C-5978-39 |
|---|---|---|---|

PREL. DRAWING NO. P-5978

B.V. 235 Disregard prints bearing earlier numbers

102

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 10'
SCALE 1" = 20'

ClibPDF - www.fastio.com

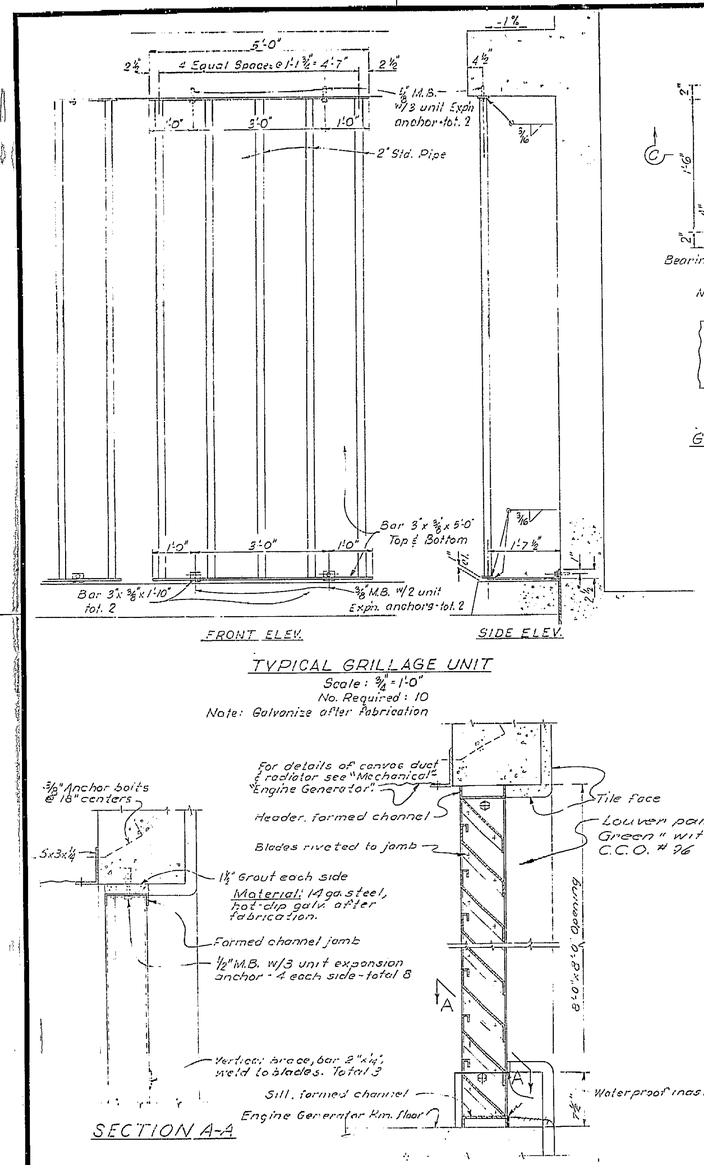
U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 80 | 163 |

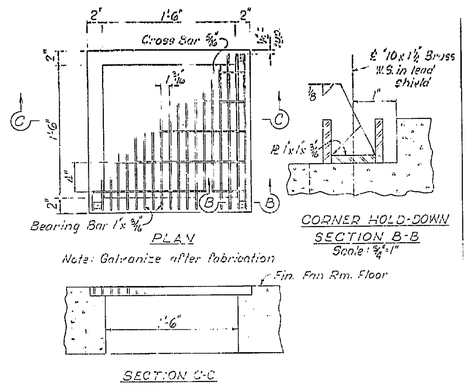
| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | SD. CO. | 175 | Oak. A | 40 | 87 |

DIRECT SUPERVISOR — CITY ENGINEER—COUNTY ENGINEER

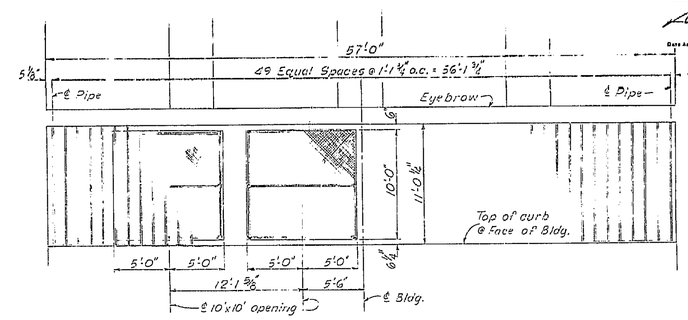
DATE APPROVED August 29, 1960



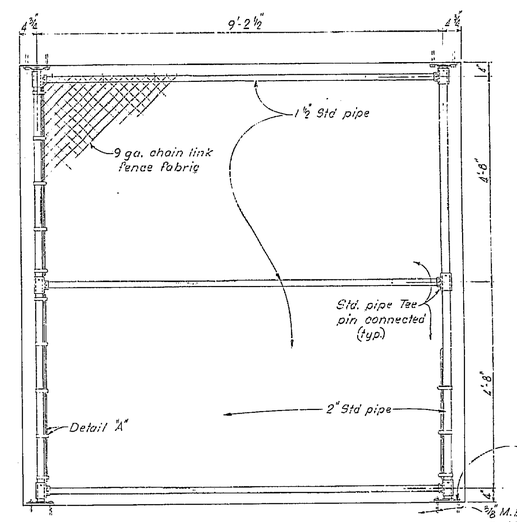

TYPICAL GRILLAGE UNIT
Scale: 3/4" = 1'-0"
No. Required: 10
Note: Galvanize after Fabrication

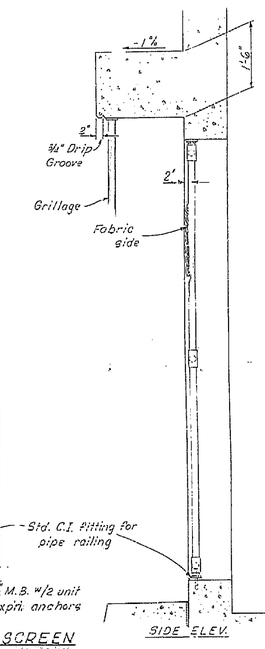



GRATE OVER SUBSTATION RM.
Scale: 1 1/2" = 1'-0"

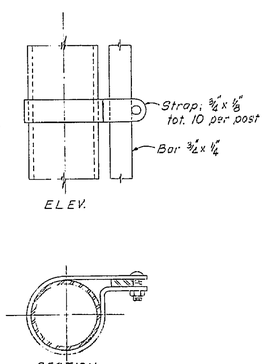



PART-FRONT ELEVATION
Scale: 3/16" = 1'-0"




AIR DUCT SCREEN
Scale: 3/4" = 1'-0" No. Req'd. 2




AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED OCT. 11, 1962, AS SUBMITTED BY RESIDENT ENGINEER J. W. QUACK
TRACINGS CORRECTED BY: LG DATE: 6-4-65

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8
Project Designer: G. Ed Chesney
Chief Designer: Dean K. Ringenbach

| | | | |
|---|---|---|---|
| DESIGN | G. Ed Chesney 1-60 | Checked R. Johnson 2-60 | |
| DETAILS | N. K. Hornsby 1-60 | Checked R. Johnson 2-60 | |
| QUANTITIES | W. Whitten 7-60 | Checked Bailey 7-60 | |
| SPECIFICATIONS | | Plans and Spec. Prepared | |
| Approval Recommended by | Chief of Design | Civil Eng. License No. | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
WEST PORTAL AIR DUCT GRILLAGE

| SCALE As Noted | BRIDGE 28-15 | FILE | DRAWING C-5978-40 |
|---|---|---|---|

PREL. DRAWING No. P-5978

Disregard prints bearing earlier numbers

BX 235

80

103

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

| FED. ROAD DIV. NO | STATE | F. A. PROJECT NO | SHEET NO | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 81 | 163 |

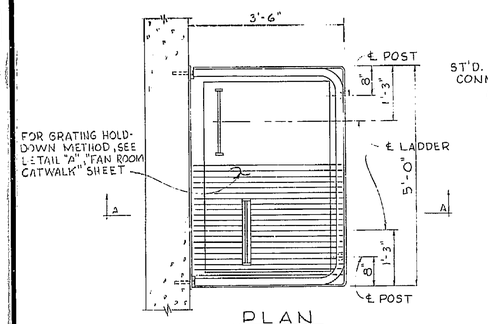
U-0039.1(1)

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO | TOTAL SHEETS |
|---|---|---|---|---|---|
| IV | Ala, CC | 75 | Oak-A | 41 | 92 |

ROAD ENGINEER — CIVIL ENGINEER—ARCHITECT

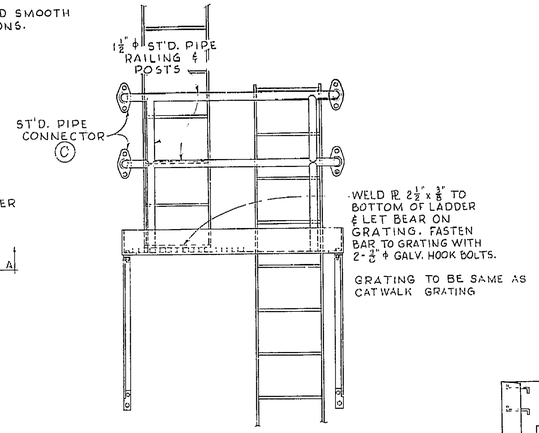
Date APPROVED August 29 1960

NOTE:
COPE WELD & GRIND SMOOTH ALL PIPE CONNECTIONS.

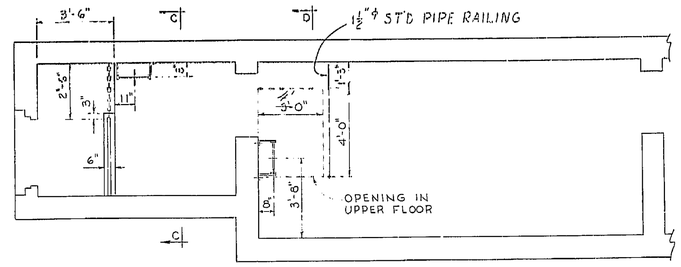



PLAN
SCALE: 3/8" = 1'-0"

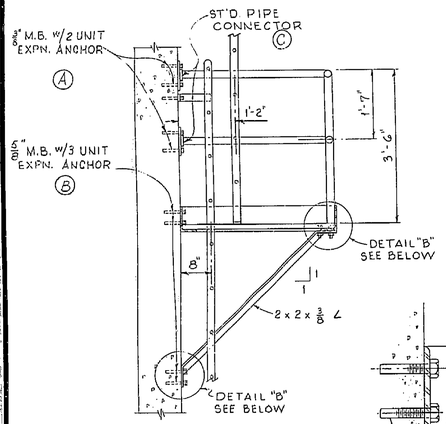
NOTE:
FOR POST CONNECTION TO FRAME DETAIL SEE "PIPE HANDRAIL" SHEET.



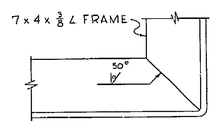

FRONT ELEVATION
SCALE: 3/4" = 1'-0"



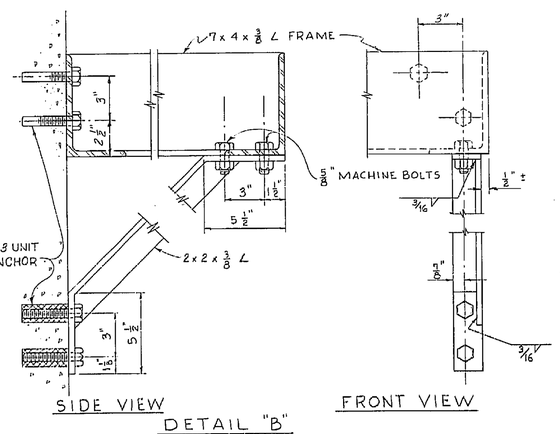

D HORIZONTAL SECTION
EAST PORTAL BLDG.
SCALE: 3/8" = 1'-0"



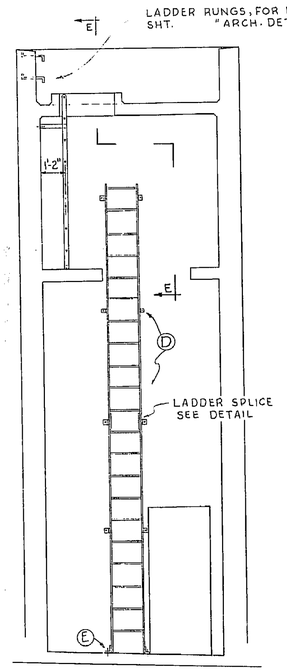

SECTION A-A
SCALE: 3/4" = 1'-0"



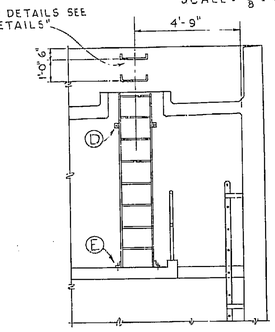

TYPICAL CORNER DETAIL
SCALE: 3" = 1'-0"



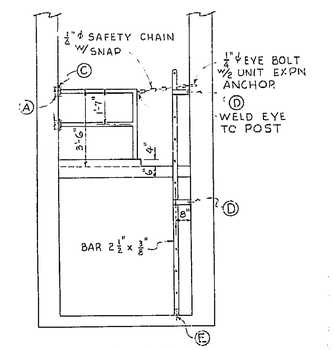

SIDE VIEW — FRONT VIEW
DETAIL "B"
SCALE: 3" = 1'-0"
WEST PORTAL




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

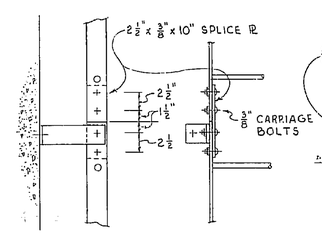



SECTION E-E
SCALE: 3/8" = 1'-0"

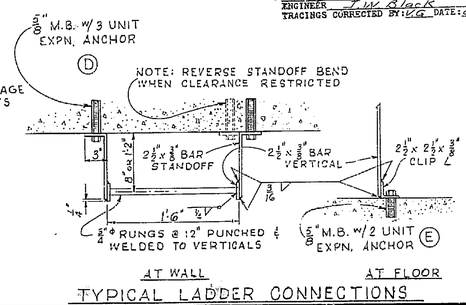



SECTION C-C
SCALE: 3/8" = 1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS LAST
Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: LG DATE: 2-9-65




LADDER SPLICE
SCALE: 1½" = 1'-0"




TYPICAL LADDER CONNECTIONS

NOTE:
GALVANIZE ALL UNITS OF THE ASSEMBLY AFTER FABRICATION. ALL BOLTS, NUTS AND WASHERS TO BE GALVANIZED OR CADMIUM PLATED.

AS BUILT PLANS
Contract No. 61-471313
Date Completed
Document No. 4000 2510

81

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: W. R. Chesney
Chief Designer: Chas. H. Bloomquist

| | | | |
|---|---|---|---|
| DESIGN | R. L. Johnson 11/57 | Checked | R. L. Johnson 2-60 |
| DETAILS | H. W. Lee 4-57 | Checked | R. L. Johnson 2-60 |
| QUANTITIES | R. J. Whelan 2-60 | Checked | R. L. Johnson 2-60 |
| SPECIFICATIONS | | Plans and Reports Checked | |

Approval Recommended by: Engineer of Design — Chief Engr. License No. 8728

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

LADDER & LANDING DETAILS

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| As Shown | 28-15 | | C-5978-41 |

RX 235 — Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 5978 | 6-60 | 1-58 | 11-57 | 10-57 | 4-56 | 3-57 | 4-57 | 4-56 | 6-11 | 104

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ' ' ' SIGNATURE [illegible] TITLE [illegible]

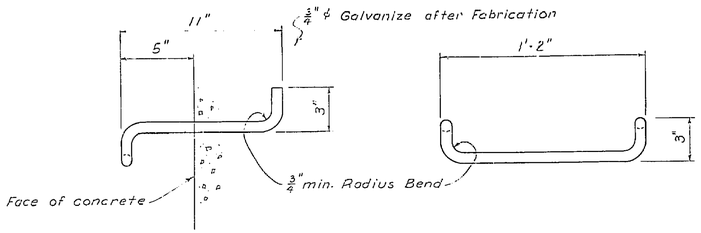
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' 0 200 400 500 600
SCALE 1" = 50' 0 100 200 300
SCALE 1" = 20' 0 10 20 30 40 50 60 70 80 90 100
SCALE 1" = 20' 0 10 20 30 40 50 60 70 80 90 200
SCALE 1" = 20' 0 10 20 30 40 50 60 70 80 90 300
ClibPDF - www.fastio.com

U-0039-1 (1) | FED. ROAD DIV. NO. 7 | STATE CALIF. | F. A. PROJ. | 82 | VOL.

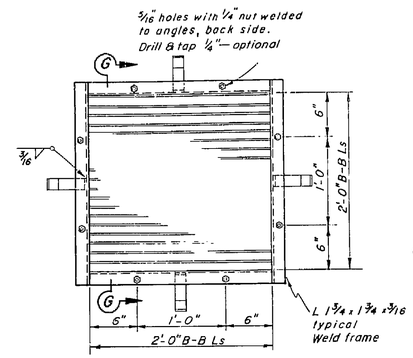
| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | L.A. | 75 | Gak-A | 42 | 225 |

Bridge Engineer — Civil Engineer—License 5588

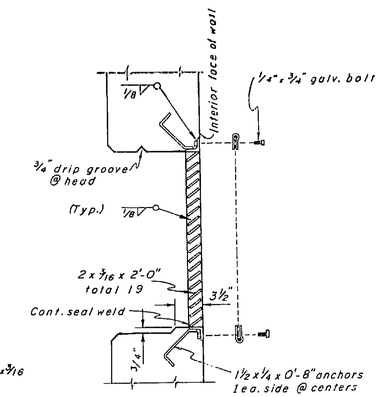
Date approved August 29 1960



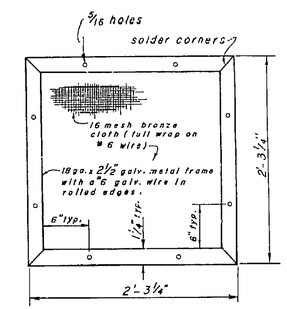

LADDER RUNG DETAIL
Scale: 3" = 1'-0"




ELEV. — LOUVER
Galvanize after welding

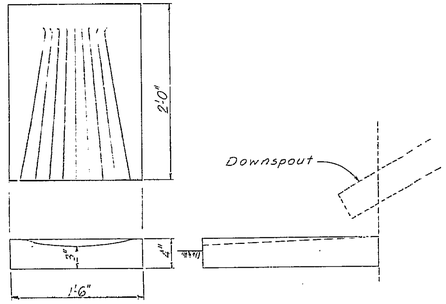



SECTION: "G-G"
SHOWING LOUVER IN PLACE



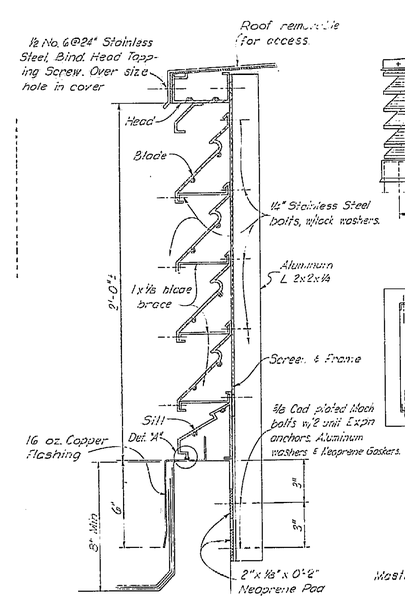

LOUVER SCREEN

WALL LOUVER DETAILS
Scale: 1 1/2" = 1'-0"

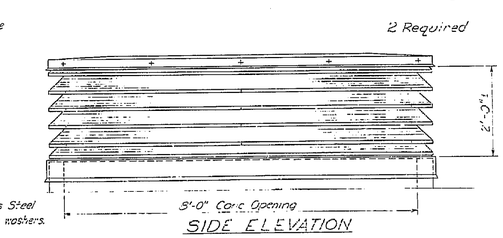



For location see "East Portal Details" sheet

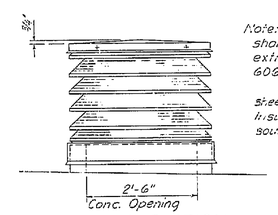
CONCRETE SPLASH BLOCK
No Scale
2 Required




SECTION A-A
Scale: 3" = 1'-0"

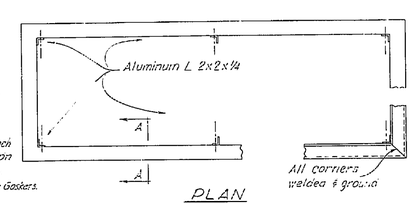



SIDE ELEVATION



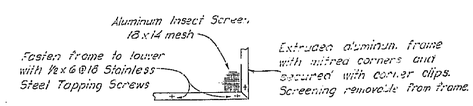

END ELEVATION

Note: Louver head, Blades, and Sill shall be fabricated of 12 gauge extruded aluminum sections 6063 T5 alloy.
Roof cover shall be 12 gauge sheet aluminum, one piece, removable, insulate underside with 1/2" of sound deadener.

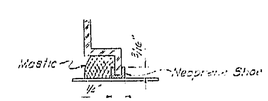



PLAN

VENT HOUSING
Scale: 3/4" = 1'-0"




SCREEN DETAIL




DETAIL "A"
Scale: Full Size

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER J.W. Black
TRACINGS CORRECTED BY [illegible] DATE: 5-9-69

AS BUILT PLANS
Contract No. 61-471313
Date Completed
Document No. 4000 2510

82

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8
Project Designer: W.A. Chenney
Chief Designer: Alin H. Regenbach

| | | | |
|---|---|---|---|
| DESIGN | By [illegible] | Checked R. S. Johnson 2-68 | |
| DETAILS | By [illegible] | Checked R. S. Johnson 2-68 | |
| QUANTITIES | By [illegible] | Checked [illegible] 2-68 | |
| SPECIFICATIONS | By | Plans and Revs. Completed | |

Approved Recommended by [illegible] Engineer of Design — Civil Engr. License No. 4784

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

ARCHITECTURAL DETAILS

SCALE AS NOTED | BRIDGE 28-15 | FILE | DRAWING C-5978-42

Bx 235 — Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978

105

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PUNSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

U-0039-1 (1)

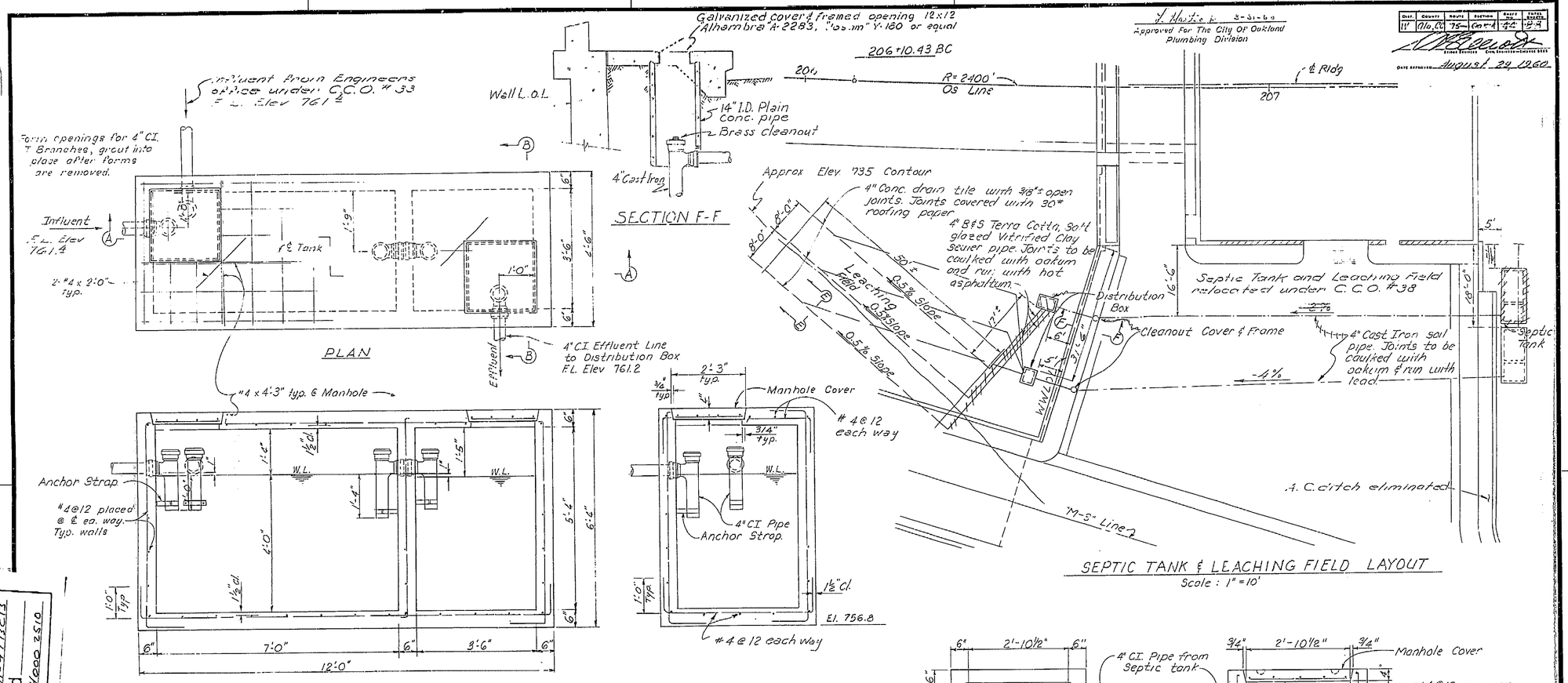
| FED. ROAD DIST. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 84 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | Alm.Co. | 75 | Con-A | 44 | 99 |

J. Hastie jr. 3-31-60
Approved For The City Of Oakland
Plumbing Division

DIST. ENGINEER — CIVIL ENGINEER-BRIDGE DESIGN

DATE APPROVED August 29 1960




AS BUILT PLANS
Contract No. 61-471313
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 19 1964 AS SUBMITTED BY RESIDENT ENGINEER F. W. Black
IRACINGS CORRECTED BY: KG DATE: 2-9-65

BRIDGE DEPARTMENT
··· DESIGN SECTION ···
8

Project Designer: W. A. Chesney
Chief Designer: Chas. E. Reynolds

| | | | |
|---|---|---|---|
| DESIGN | By L. H. Wilson 12-57 | Checked R. Schramm 2-60 | |
| DETAILS | By C. E. Barnhart 2-59 | Checked R. Schramm 2-60 | |
| QUANTITIES | By J. Dhesten 2-60 | Checked H. Bergstrom 2-60 | |
| SPECIFICATIONS | By | Plans and Revs. Compared | |

Approval Recommended by W. S. Ward — Bridge Engineer
Civil Engr. License No. 6728

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

SEPTIC TANK DETAILS

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| As Noted | 28-15 | | C-5978-44 |

Bx 235 — Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978

107

94

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ..... SIGNATURE ..... TITLE .....

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
SCALE 1" = 20
ClibPDF - www.fastio.com

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 85 | 163 |

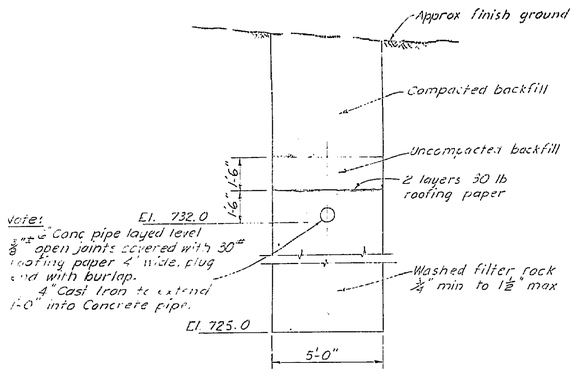
U-0039-1 (1)

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| IV | Ala. Co. | 45 | Oak-A | 45-018 | |

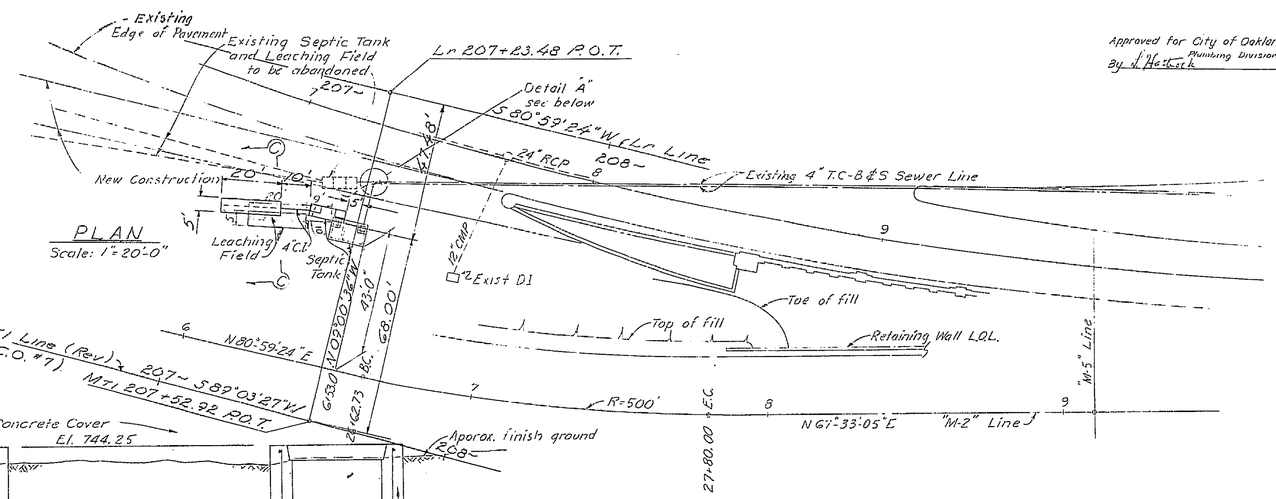
CHIEF ENGINEER — CIVIL DIVISION—DIVISION OF STATE

DATE APPROVED: August 29 1960

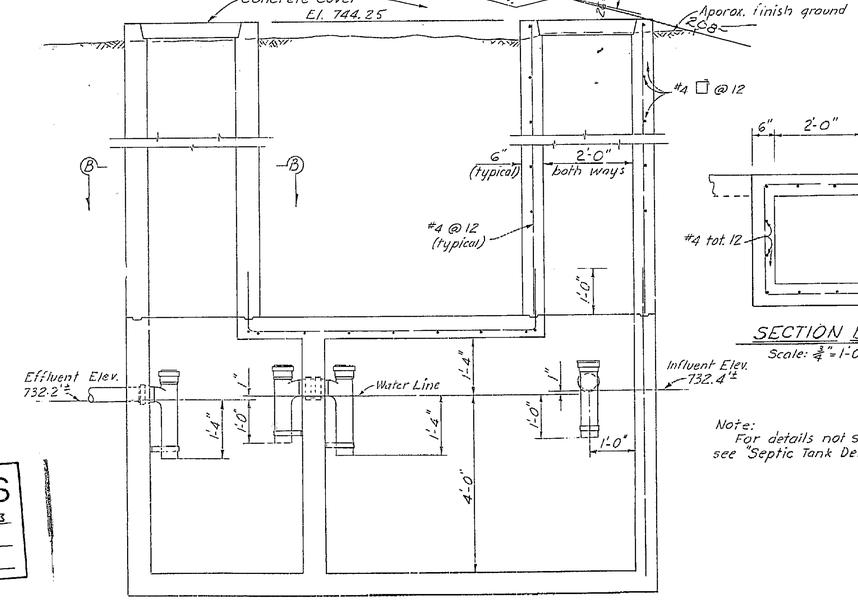
Approved for City of Oakland
By J. Hestock Plumbing Division



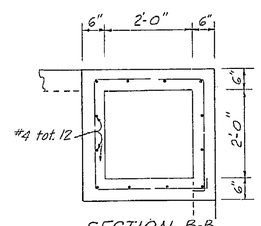

SECTION C-C
No Scale




PLAN
Scale: 1" = 20'-0"

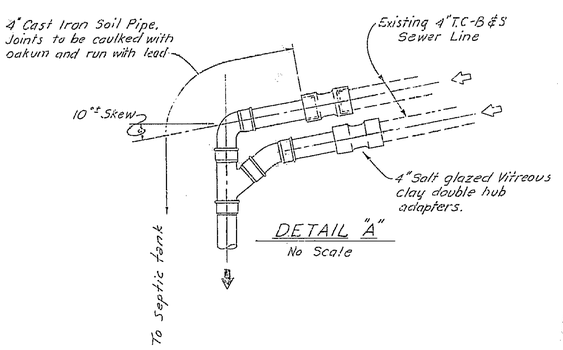



LONGITUDINAL SECTION
Scale: 1/4" = 1'-0"




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

Note:
For details not shown, see "Septic Tank Details"




DETAIL "A"
No Scale

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: KG DATE: 8-10-65

BRIDGE DEPARTMENT
*** DESIGN SECTION *** 8

Project Designer: W. M. Cheaney
Chief Designer: Ein H. Dopwell

| | | | |
|---|---|---|---|
| DESIGN | By R. A. Wyman 5-60 | Checked W. M. Cheaney 5-60 | |
| DETAILS | By J. H. Stoss 5-60 | Checked W. M. Cheaney 5-60 | |
| QUANTITIES | By — | Checked — | |
| SPECIFICATIONS | By | Date and Sym. Revised | |

Approval Recommended by: Engineer of Design — Civil Engr. License No. 6739

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

WEST PORTAL SEWAGE DISPOSAL RELOCATION

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| As shown | 28-15 | | C-5978-45 |

BK 235

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978 1/5

108

85

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-1-71 SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

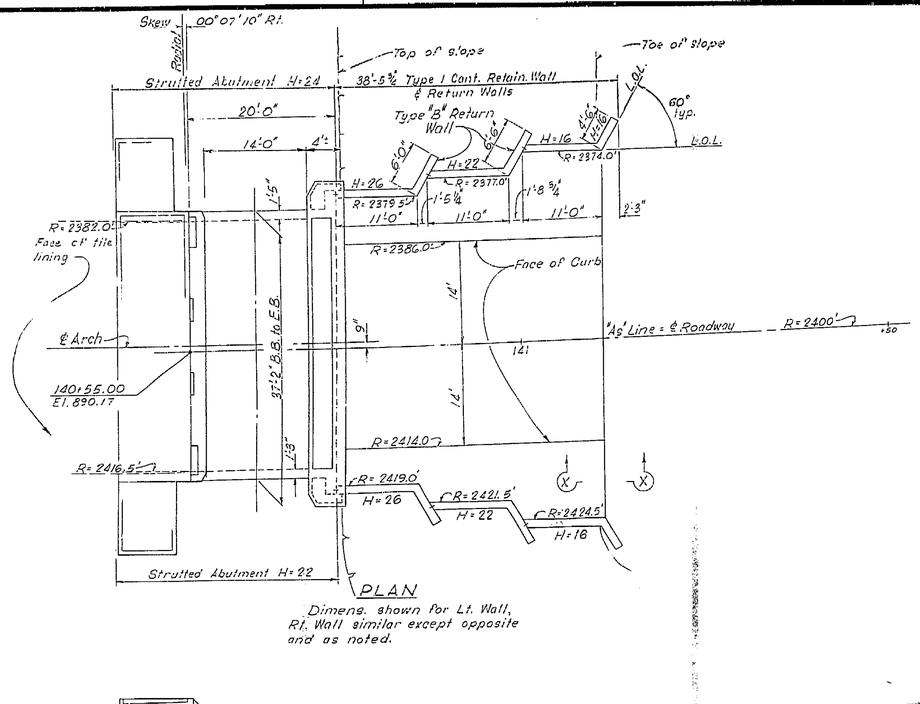
U-0039.1(1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 86 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| IV | Alameda | 75 | Oak-A | 49 | 89 |

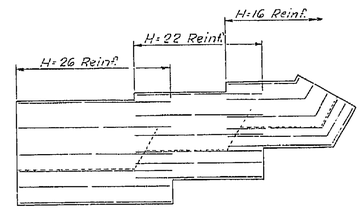
Bridge Engineer — City Engineer—Licensed Land Surveyor

Date approved: August 29, 1960

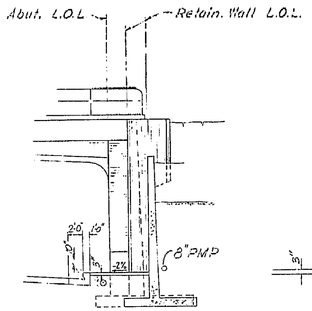



PLAN

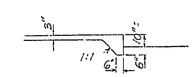
Dimens. shown for Lt. Wall, Rt. Wall similar except opposite and as noted.



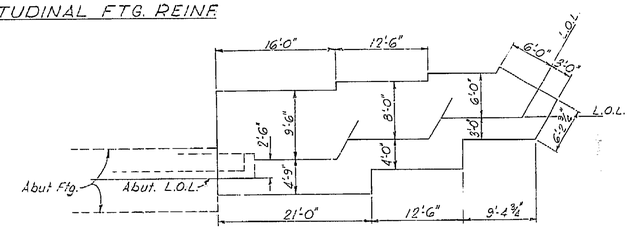

LONGITUDINAL FTG. REINF.

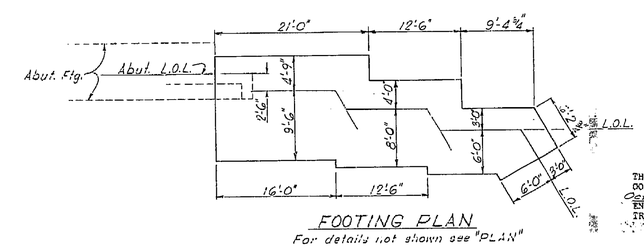



SECTION A-A

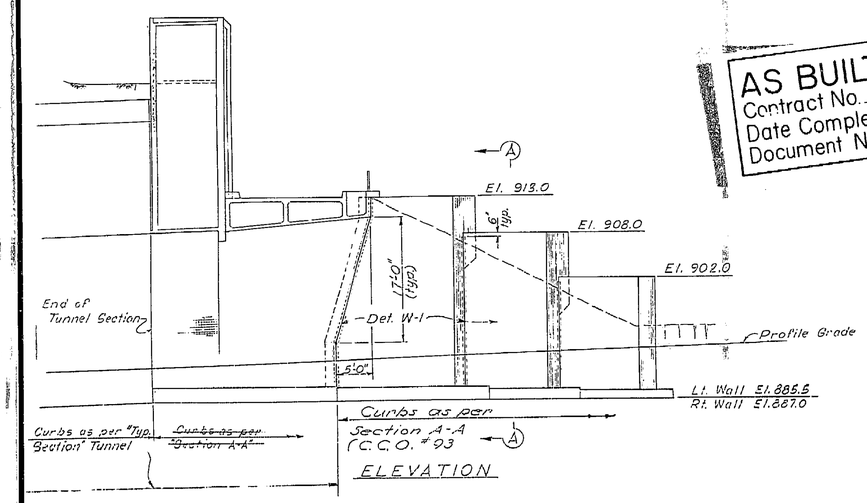



SECTION X-X
Scale: ½"=1'-0"




FOOTING PLAN
For details not shown see "PLAN"




ELEVATION

AS BUILT PLANS
Contract No. 61-471313
Date Completed
Document No. 4000 2510

Note: For Wall details not shown see "Type 1 Cont. Retain. Wall", "Retain. Wall Det's. No. 1", "Strutted Abut.-Spread Ftg." shts.
For Bridge details see "Portal Bldg. Bridge Details" sheet.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 17, 1962, AS SUBMITTED BY RESIDENT ENGINEER: F. W. Black
TRACINGS CORRECTED BY: VG DATE: 7-10-65

BRIDGE DEPARTMENT
··· DESIGN SECTION ···
8
Project Designer: W. Chaney
Chief Designer: Orin H. Degenkolb

| | | | |
|---|---|---|---|
| DESIGN | By W. R. Hawkins 7-59 | Checked R. Johnson 2-60 | |
| DETAILS | By W. R. Hawkins 7-59 | Checked R. Johnson 2-60 | |
| QUANTITIES | By J. Wheeler 3-60 | Checked J. Fitzgerald 3-60 | |
| SPECIFICATIONS | By | Plans and Specs. Prepared | |

Approval Recommended by: Engineer of Design — Civil Eng. License No. 6726

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

# BROADWAY TUNNEL

## EAST PORTAL - BRIDGE & RET. WALL LAYOUT

| Except as noted SCALE 1/8" = 1'-0" | BRIDGE 28-15 | FILE | DRAWING C-5978-46 |
|---|---|---|---|

BX 235 Disregard prints bearing earlier numbers

PREL. DRAWING No. 1-5978

104

86

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-1-61 SIGNATURE [illegible] TITLE [illegible]

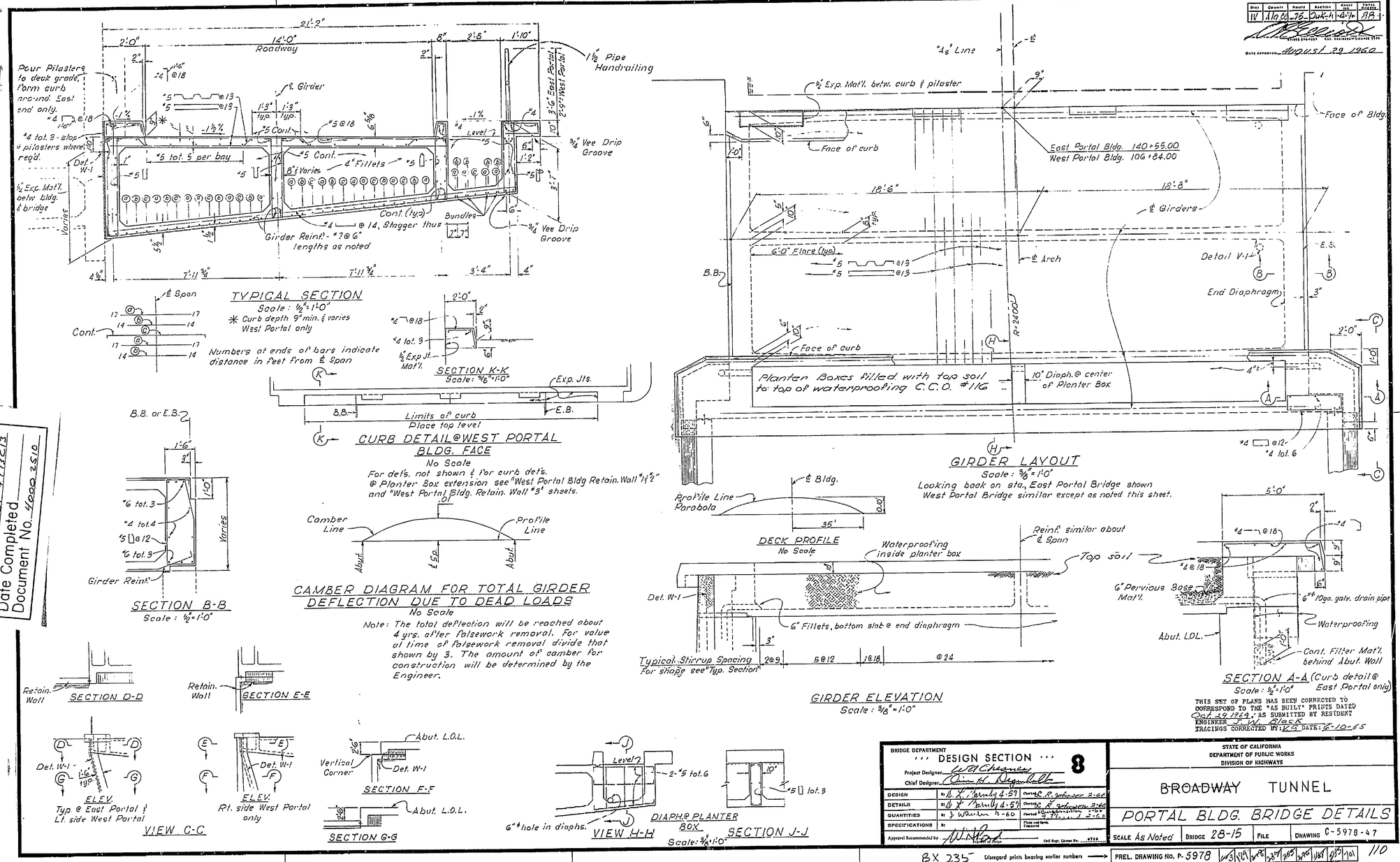
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

U-0039.1 (1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF | | 87 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | PROJECT | TOTAL SHEETS |
|---|---|---|---|---|---|
| IV | Ala | 06 | 76 | Oak-h | 88 |

August 29 1960




THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 30 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY JS DATE: 6-10-65

AS BUILT PLANS
Contract No. 61-471813
Date Completed
Document No. 4000 2510

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: W. H. Chapman
Chief Designer: Chas. H. Dugan Ballo

| | | | |
|---|---|---|---|
| DESIGN | By W. H. Chapman 4-59 | Checked C. R. Johnson 2-60 | |
| DETAILS | By W. H. Chapman 4-59 | Checked C. R. Johnson 2-60 | |
| QUANTITIES | By W. Wurlitzer 3-60 | Checked W. Wurlitzer 2-60 | |
| SPECIFICATIONS | By | Plans and Specs. Prepared | |
| Approval Recommended by | | Civil Engr. License No. | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

# BROADWAY TUNNEL

## PORTAL BLDG. BRIDGE DETAILS

SCALE As Noted | BRIDGE 28-15 | FILE | DRAWING C-5978-47

BX 235 Disregard prints bearing earlier numbers

PREL. DRAWING No. P-5978 | 1/63 | 1/63 | 1/63 | 1/63 | 1/63 | 1/63 | 1/63 | 1/63 | 1/63 | 1/63 | 110

87

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

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SCALE 1" = 50'
SCALE 1" = 20'
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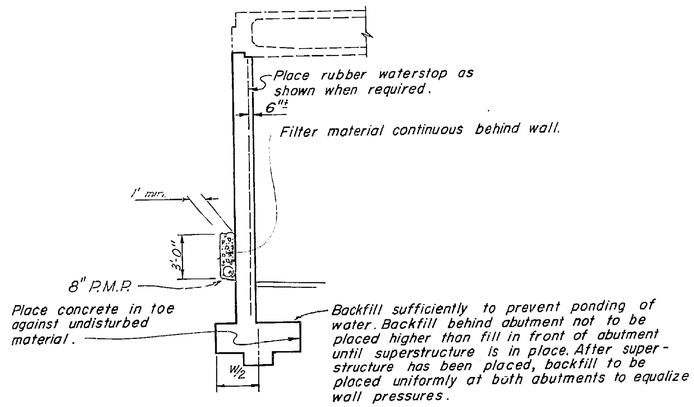
U-0039-1(1)

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF | | | 88 | 162 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 1V | ALA CO | 13 | OAK A | 48 | 83 |

Date approved August 29 1960

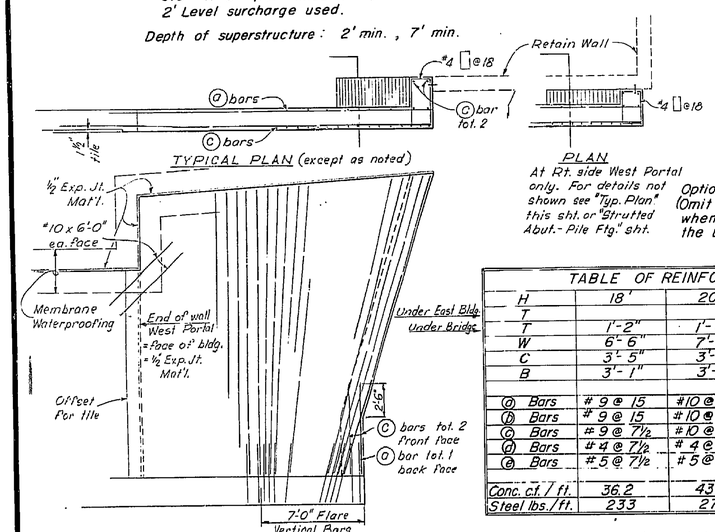



## DRAINAGE AND BACKFILL

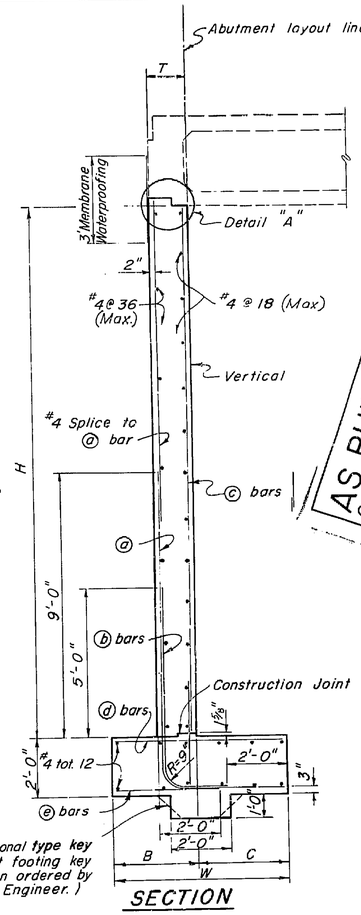
Loading Notes

Superstructure load assumed to vary between
5.0$^k$-20.0$^k$ per lineal foot, H=22 to H=28
5.0$^k$-17.5$^k$ per lineal foot, H=18 & H=20
2' Level surcharge used.

Depth of superstructure: 2' min., 7' min.




FLARE REINF. DETAIL



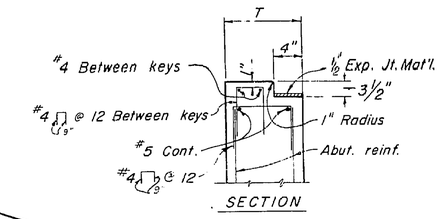

Optional type key (Omit footing key when ordered by the Engineer.)

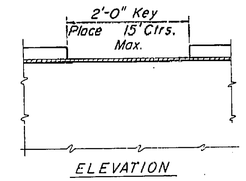
SECTION

| TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA | | | | | | |
|---|---|---|---|---|---|---|
| H | 18' | 20' | 22' | 24' | 26' | 28' |
| T | | | 1'-4 1/2" | 1'-6 1/2" | | |
| T | 1'-2" | 1'-4" | 1'-6" | 1'-8" | 1'-10" | 2'-0" |
| W | 6'-6" | 7'-3" | 8'-0" | 8'-9" | 9'-6" | 10'-3" |
| C | 3'-5" | 3'-10" | 4'-3" | 4'-7" | 5'-0" | 5'-5" |
| B | 3'-1" | 3'-5" | 3'-9" | 4'-2" | 4'-6" | 4'-10" |
| | | | | | | |
| ⓐ Bars | # 9 @ 15 | #10 @ 17 | #10 @ 15 | #11 @ 16 | #11 @ 15 | #11 @ 14 |
| ⓑ Bars | # 9 @ 15 | #10 @ 17 | #10 @ 15 | #11 @ 16 | #11 @ 15 | #11 @ 14 |
| ⓒ Bars | # 9 @ 7 1/2 | #10 @ 8 1/2 | #10 @ 7 1/2 | #11 @ 8 | #11 @ 7 1/2 | #11 @ 7 |
| ⓓ Bars | # 4 @ 7 1/2 | # 4 @ 8 1/2 | # 4 @ 7 1/2 | # 5 @ 8 | # 5 @ 7 1/2 | # 5 @ 7 |
| ⓔ Bars | # 5 @ 7 1/2 | # 5 @ 8 1/2 | # 5 @ 7 1/2 | # 6 @ 8 | # 6 @ 7 1/2 | # 6 @ 7 |
| | | | | | | |
| Conc. cf. / ft. | 36.2 | 43.3 | 51.3 | 59.8 | 68.0 | 78.8 |
| Steel lbs./ft. | 233 | 271 | 326 | 399 | 451 | 510 |

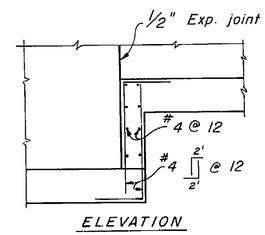
Note: Spacing of Vertical Reinf. within flared area to be meas. @ top of wall.

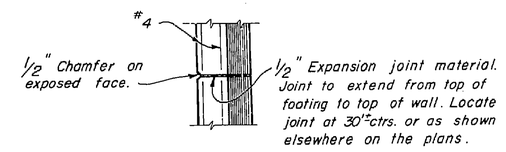
AS BUILT PLANS
Contract No. 67-47125
Date Completed
Document No. 4000 2510



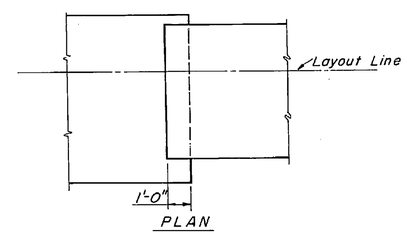




DETAIL "A"

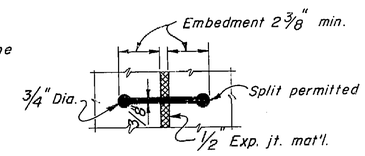



PLAN OF EXPANSION JOINT




FOOTING STEP




DETAIL W-1

RUBBER WATERSTOP

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29, 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: VG DATE: 6-10-65

STANDARD DRAWING REGISTER

| REVISION | DETAILS | Checked | Approved | Date |
|---|---|---|---|---|
| | | | | |

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8

Project Designer. W. H. Chalgren
Chief Designer. Donald H. Degenkolb

| | By | Checked By | Date |
|---|---|---|---|
| DESIGN | N. X. Nunn | R. R. Johnson | 2-66 |
| DETAILS | N. X. Nunn | R. R. Johnson | 2-66 |
| QUANTITIES | J. Wilson | J. Degenkolb | 2-66 |
| SPECIFICATIONS | By | Plans and Specs. Checked | |

Approved Recommended by: Engineer of Design
Date: Engineer in Charge 6729

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

STRUTTED ABUTMENT - SPREAD FOOTING

SCALE None | BRIDGE 28-15 | XS22-1 FILE | DRAWING C-5978-48

PREL. DRAWING No. P-5978

1BX 235

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ..... SIGNATURE ..... TITLE SR ENGR

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

U-0039.1 (1)

| FED. ROAD DIST. NO. | STATE | FUNC. NO. | PROJ. NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF | | | 89 | 153 |

| DIST. | COUNTY | ROUTE NO. | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | Alp | 70 | 75.0 | Ovx-4 | 4-9 |

Date approved August 29, 1960

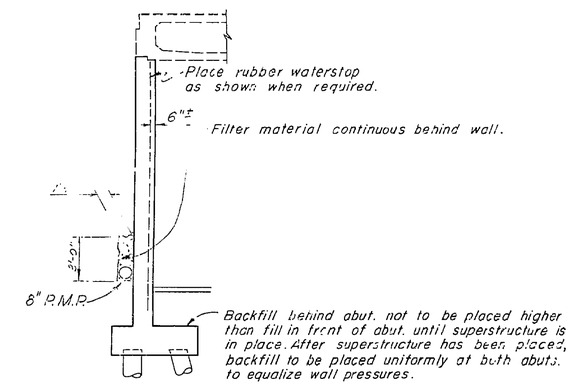
Notes Added 8/4/59 J.T.J. (Design Data) (Designer, check)

Note in Drainage Fill Detail. 1/63 JTJ

120' max. between abuts.
Effect of skew
No. of keys - Det. "A"
Actual ht. not to exceed H+6"

Design Data: $f_c$ = 20,000 psi, N=10, $f_s$=20,000 psi
Earth = 120 p.c.f. and equivalent fluid pressure = 36 psf per ft. of height

Footing Pressure: 3 tons per square foot, max.




## DRAINAGE AND BACKILL

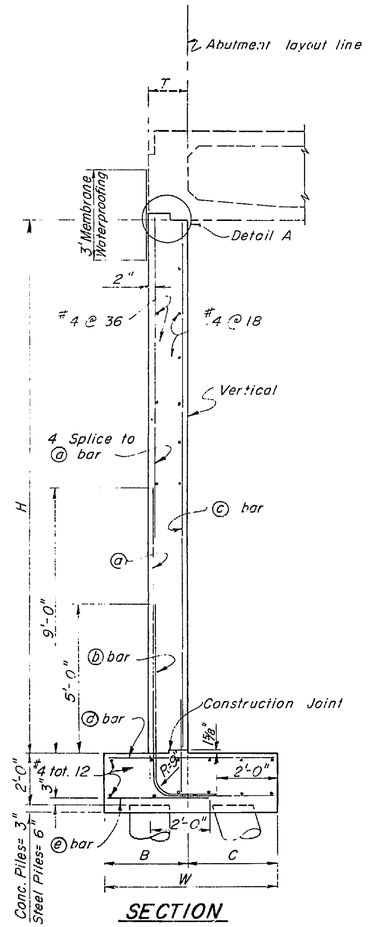
Loading Notes

Superstructure load assumed to vary between 5.0ᵏ 20.0ᵏ per lineal foot, H = 22 to H = 28
5.0ᵏ 17.5ᵏ per lineal foot, H = 18 & H = 20

2' Level surcharge used.

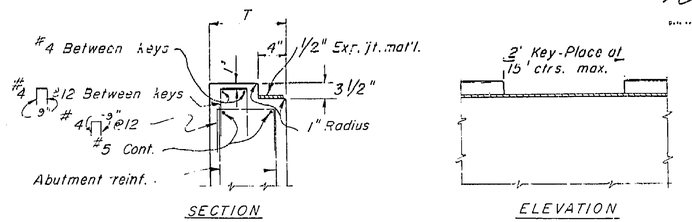
Depth of superstructure: 2' min, 7' max.

Note: For wall details not shown see "Strutted Abut.-Spread Ftg." sht.



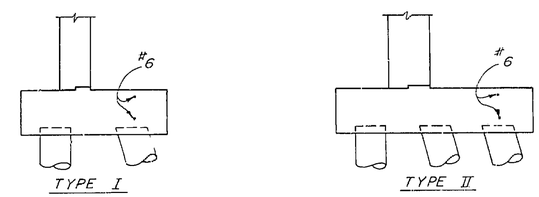

## SECTION

| TABLE OF REINFORCING STEEL, DIMENSION AND DATA | | | | | | |
|---|---|---|---|---|---|---|
| H | 18' | 20' | 22' | 24' | 26' | 28' |
| T | 1'-2" | 1'-4" | 1'-6" | 1'-8" | 1'-10" | 2'-0" |
| W | 6'-6" | 7'-3" | 8'-0" | 8'-9" | 9'-6" | 10'-3" |
| C | 3'-5" | 3'-10" | 4'-3" | 4'-7" | 5'-0" | 5'-5" |
| B | 3'-1" | 3'-5" | 3'-9" | 4'-2" | 4'-6" | 4'-10" |
| TYPE | I | I | I | I | II | II |
| ⓐ bars | #9 @ 15 | #10 @ 17 | #10 @ 15 | #11 @ 16 | #11 @ 15 | #11 @ 14 |
| ⓑ bars | #9 @ 15 | #10 @ 17 | #10 @ 15 | #11 @ 16 | #11 @ 15 | #11 @ 14 |
| ⓒ bars | #9 @ 7½ | #10 @ 8½ | #10 @ 7½ | #11 @ 8 | #11 @ 7½ | #11 @ 7 |
| ⓓ bars | #4 @ 7½ | #4 @ 8½ | #4 @ 7½ | #5 @ 8 | #5 @ 7½ | #5 @ 7 |
| ⓔ bars | #5 @ 7½ | #5 @ 8½ | #5 @ 7½ | #6 @ 8 | #6 @ 7½ | #6 @ 7 |
| Conc. cf. ft. | 35.6 | 42.9 | 51.0 | 59.7 | 69.1 | 79.1 |
| Steel lbs. ft. | 236 | 274 | 329 | 402 | 454 | 513 |



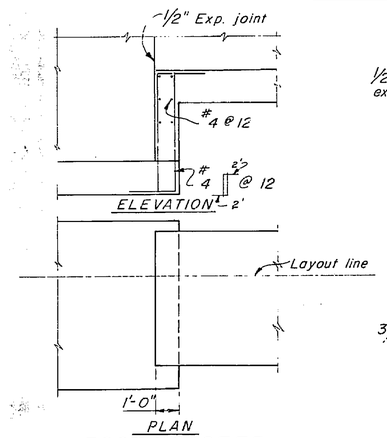

SECTION — ELEVATION

## DETAIL A




TYPE I — TYPE II

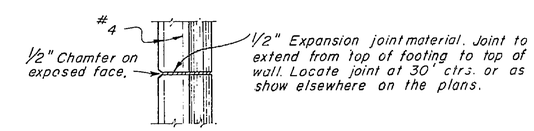
## TYPICAL SECTIONS



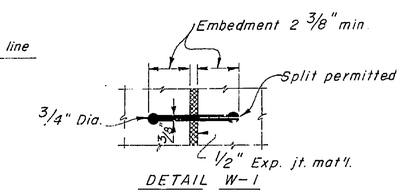

ELEVATION — PLAN

## FOOTING STEP

Note: See "West Portal Bldg. Retain. Wall #3" for pile spacg. Quantities based on 2'-3" footing.




## PLAN OF EXPANSION JOINTS




DETAIL W-1

## RUBBER WATERSTOP

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 29 1969, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: LS DATE: 6-20-65

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

STANDARD DRAWING

| BRIDGE DEPARTMENT | | | |
|---|---|---|---|
| ··· DESIGN SECTION ··· | | | 8 |
| Project Designer | Wld Chenney | | |
| Chief Designer | Alin H. Dignelbeck | | |
| DESIGN | K.L. Bromley 12-59 | Checked | R. Johnson 2-60 |
| DETAILS | K.L. Bromley 12-59 | Checked | R. Johnson 2-60 |
| QUANTITIES | BY | DETAILS 2-60 | Checked Structure Study |
| SPECIFICATIONS | BY | | Checked J.T. Lyngvad 4-65 |
| Approved Recommended by | W. H. Post | | Date Approved 6-29 |

| 10/59 | STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS |
|---|---|
| BROADWAY TUNNEL | |
| STRUTTED ABUTMENT - PILE FOOTING | |
| SCALE None | BRIDGE 28-15 / XS-22-2 FILE / DRAWING C-5978-49 |
| PREL. DRAWING NO. P-5978 | 112 |

BX 235

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PUNSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-1-71 SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

U-0039-1 (1)

90/163

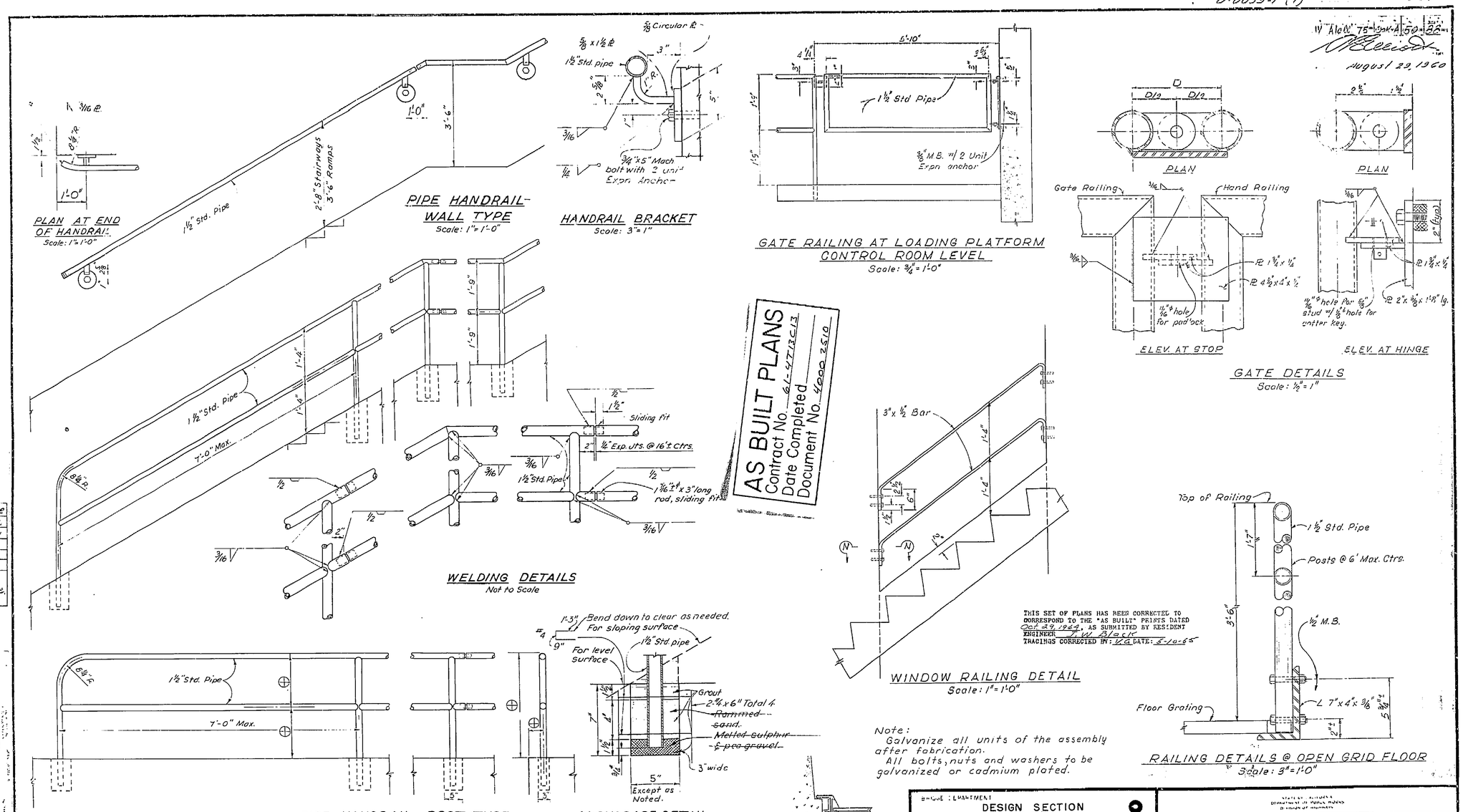
W A10W 75 50 22

August 29, 1960

Revised Anchor Detail
Rail Bracing 12-23-P.Clark
Rail Hgt. 4'6" added 5-19-5

BRIDGE DEPARTMENT

| | Initial | Date |
|---|---|---|
| Design | | |
| Detail | R.A. | 7-31 |
| Check | | |
| Quant. | | |
| Check | | |
| Supervised: | | |




AS BUILT PLANS
Contract No. 61-417813
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29, 1964, AS SUBMITTED BY RESIDENT ENGINEER J.W. Blocker
TRACINGS CORRECTED BY: KM DATE: 8-10-65

Note:
Galvanize all units of the assembly after fabrication.
All bolts, nuts and washers to be galvanized or cadmium plated.

RAILING NOTES
¼" Expansion Jts. at 16'± Ctrs.
Weld and grind smooth all connections.
All railing to be galvanized after fabrication.

⊕ For dimens. see various sheets where pipe Handrailing is shown.

BRIDGE DEPARTMENT
DESIGN SECTION 8
PROJECT DESIGNER: Alfred Chesney
CHIEF DESIGNER: Alan H. Dignalla
DETAILS BY: E.M. Jones 12/57 CHECKED: R. Gibson 2-60
QUANTITIES BY: O. E. Berning 10-59 CHECKED: R. Gibson 2-60
SPECIFICATIONS BY: J. Wooster CHECKED: [illegible] 2-60
PLANS AND SPECS COMPARED
APPROVAL RECOMMENDED BY: [illegible] ENG. LICENSE NO. 6729

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

PIPE HANDRAIL

SCALE As shown | BRIDGE 28-15 | FILE XS-9-35 | DRAWING C-5978-5

PREL. DRAWING No. P-5978

BK 235

90

113

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

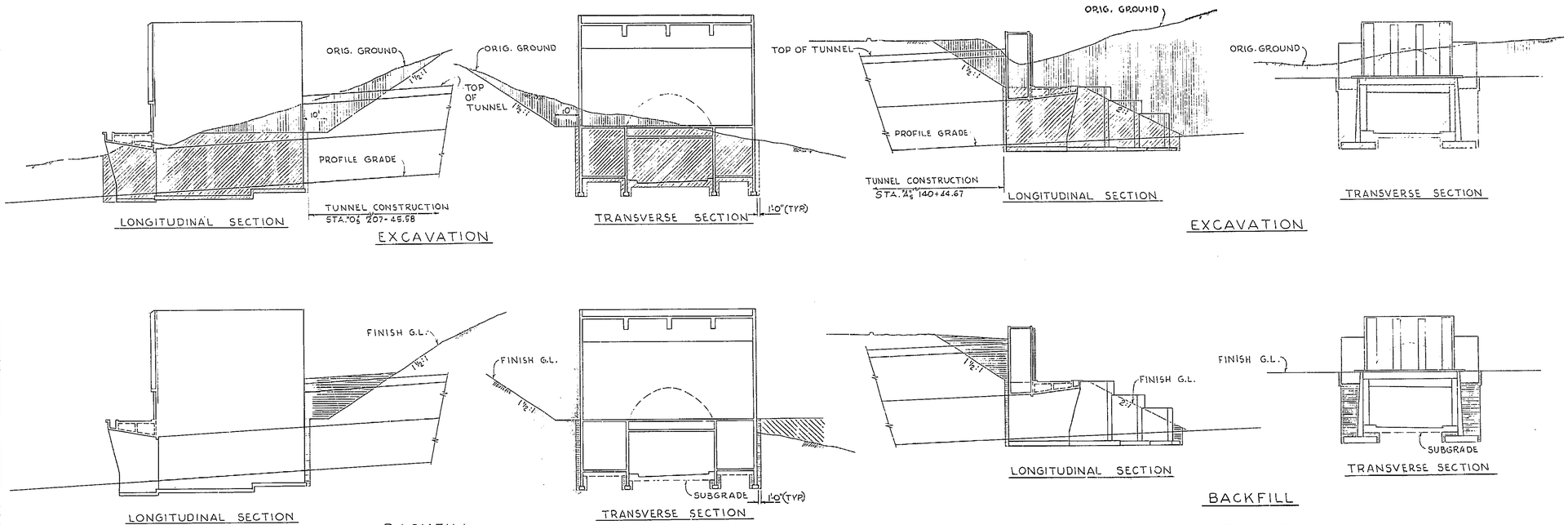
U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 91 | 163 |

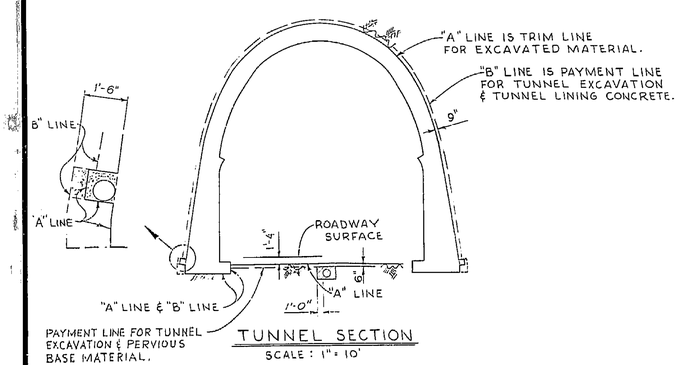
| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| IV | ALA.CC | 75 | OAK, A | 51 | 23 |

Bridge Engineer — Civil Engineer—Licensed Engineer

Date Approved: August 29, 1962




NOTE: DRAINS SHALL BE PLACED BEHIND TIMBER TUNNEL SUPPORTS, IF USED, LOCATION OF "B" LINE WILL NOT BE CHANGED, REGARDLESS OF THE TYPE OF TUNNEL SUPPORT.




TUNNEL SECTION
SCALE: 1" = 10'

LEGEND

- STRUCTURE EXCAVATION
- STRUCTURE BACKFILL
- ROADWAY EMBANKMENT
- ROADWAY EXCAVATION

NOTE:
LIMITS OF EXCAVATION SHOWN ARE FOR PURPOSES OF PAYMENT ONLY. THE CONTRACTOR MAY FOR REASONS OF SAFETY OR CONVENIENCE, WITH THE APPROVAL OF THE ENGINEER, EXCAVATE BEYOND THE LIMITS SHOWN. PAYMENT WILL BE BASED ON THE LIMITS SHOWN.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 29, 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: V.G. DATE: 7-10-65

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8
Project Designer W. A. Chesney
Chief Designer Alvin H. Degenkolb

| | | | |
|---|---|---|---|
| DESIGN | By W. A. Chesney 12-59 | Checked | |
| DETAILS | By [illegible] 12-59 | Checked | |
| QUANTITIES | By [illegible] 12-60 | Checked | |
| SPECIFICATIONS | By | Plans and Specs Checked | |

Approval Recommended by [illegible] Engineer of Design — Civil Engr. License No. 6720

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

EXCAVATION & BACKFILL

EXCEPT AS NOTED SCALE 1" = 20' | BRIDGE 28-15 | FILE | DRAWING C-5973

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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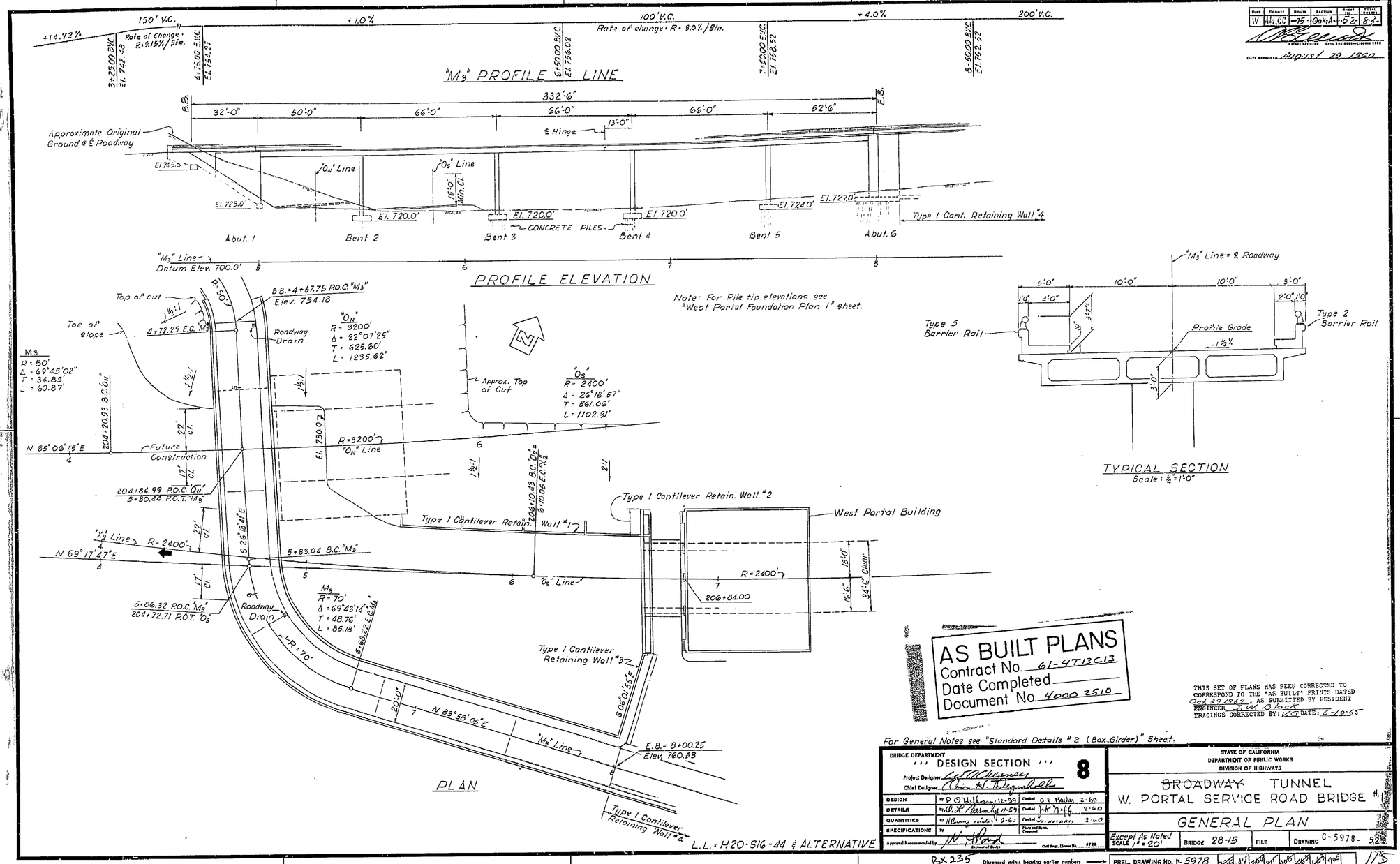
U-0039-1 (1)

| FED. ROAD DIV. No | STATE | F. A. PROJECT No. | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 92 | 163 |

| Dist. | County | Route | Section | Sheet No. | Total Sheets |
|---|---|---|---|---|---|
| IV | Alm.CC | 75 | Ook.A-1 | 52 | 84 |

STONE & WEBSTER — CIVIL ENGINEERS — LICENSE 5128

DATE APPROVED August 29, 1962




92

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: DATE: 8-10-65

For General Notes see "Standard Details #2 (Box Girder)" Sheet.

BRIDGE DEPARTMENT
''' DESIGN SECTION '''
8

Project Designer
Chief Designer

| | | | |
|---|---|---|---|
| DESIGN | By P. O. Hillman 12-59 | Checked O. S. Fischer 2-60 | |
| DETAILS | By O. L. Harvey 11-59 | Checked J. K. Neff 2-60 | |
| QUANTITIES | By H. Lung 11-6-59 | Checked J. K. Neff 2-60 | |
| SPECIFICATIONS | By | Plans and Specs. Compared | |
| Approval Recommended by | Engineer of Design | Civil Engr. License No. 6789 | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
W. PORTAL SERVICE ROAD BRIDGE

GENERAL PLAN

Except As Noted SCALE 1" = 20' | BRIDGE 28-15 | FILE | DRAWING C-5978-52

PREL. DRAWING No. P-5978

Bx 235 Disregard prints bearing earlier numbers

113

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-11-66 SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
SCALE 1" = 40'

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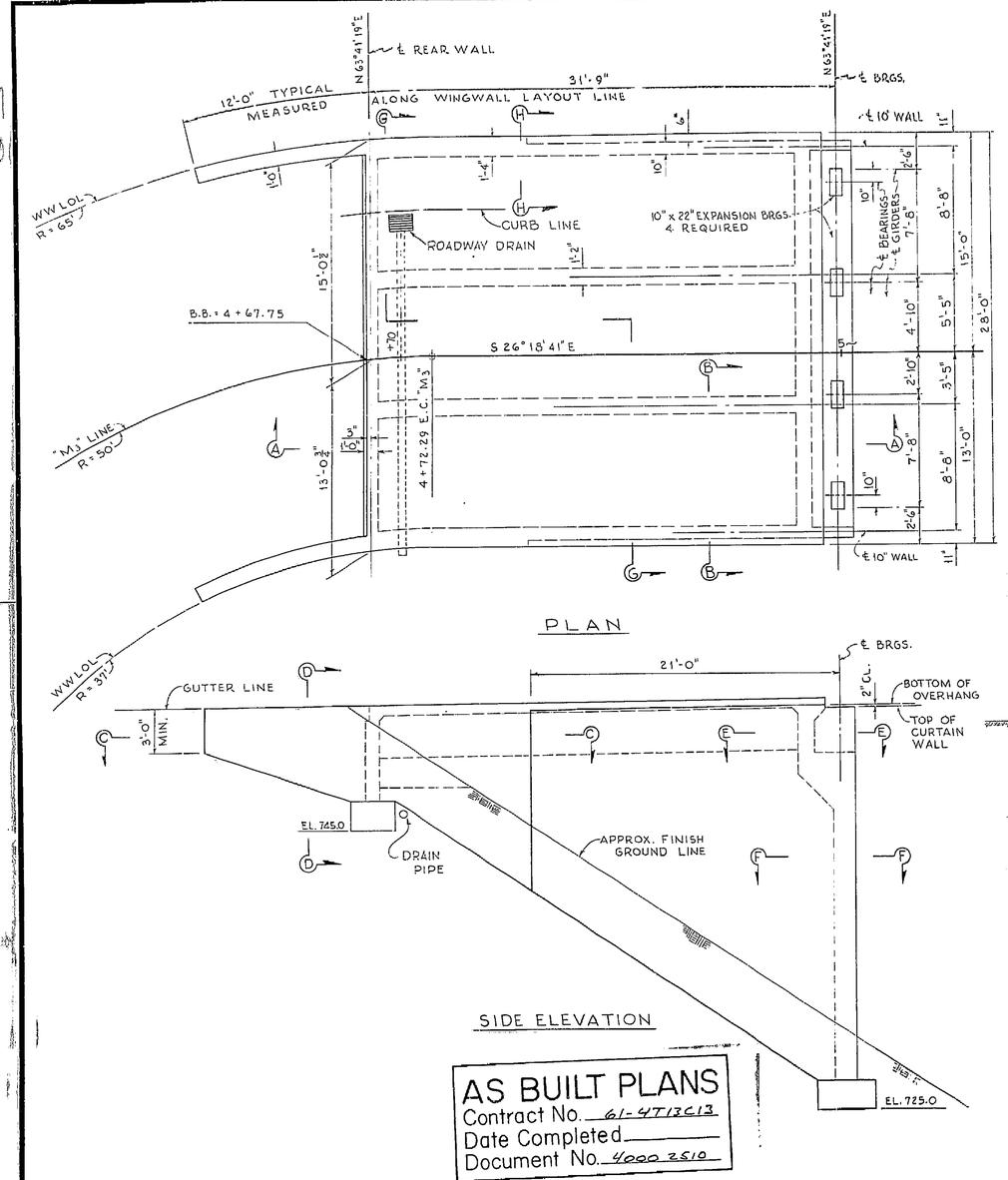
U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 93 | 163 |

| Dist. | County | Route | Section | Sheet No. | Total Sheets |
|---|---|---|---|---|---|
| 11 | Ala. | 75 | Oak-A | 53 | 88 |

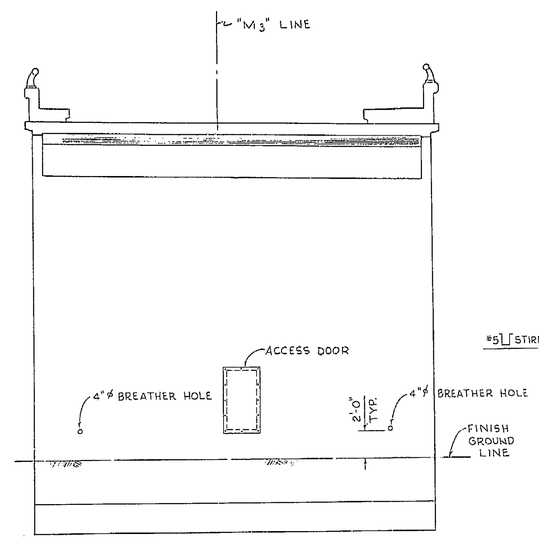
Date Approved August 29 1962



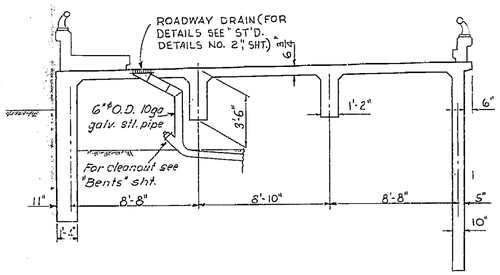

PLAN



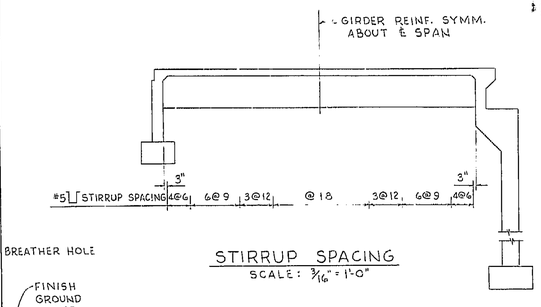
SIDE ELEVATION



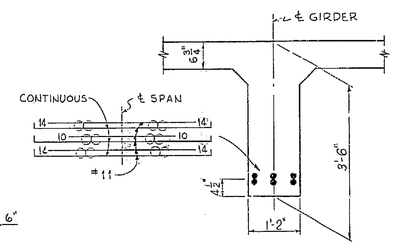

FRONT ELEVATION




SECTION G-G




STIRRUP SPACING
SCALE: 3/16" = 1'-0"




GIRDER REINF.
SCALE: ¾" = 1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29, 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: VG DATE: 5-10-65

NOTE:
FOR SECTIONS NOT SHOWN SEE "BIN TYPE ABUTMENT DETAILS" SHEET.

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

93

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8
Project Designer W. A. Chenney
Chief Designer Wm. H. Degenhardt

| | | | |
|---|---|---|---|
| DESIGN | By G. O'Halloran 12-59 | Checked A. F. Bacher 2-60 |
| DETAILS | By H. Burgemeister 12-59 | Checked J. F. Neff 2-60 |
| QUANTITIES | By H. Burgemeister 2-60 | Checked [illegible] 2-60 |
| SPECIFICATIONS | By | Plans and Specs. Compared |

Approval Recommended by W. A. Chenney, Engineer of Design — Civil Engr. License No. 6728

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL
W. PORTAL SERVICE RD. BR. #1
ABUTMENT NO. 1 LAYOUT

EXCEPT AS NOTED SCALE ¼" = 1'-0" | BRIDGE 28-15 | FILE | DRAWING C-5978-53

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978 | 262 | 273 | 440 | 570 | 664 | 116

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

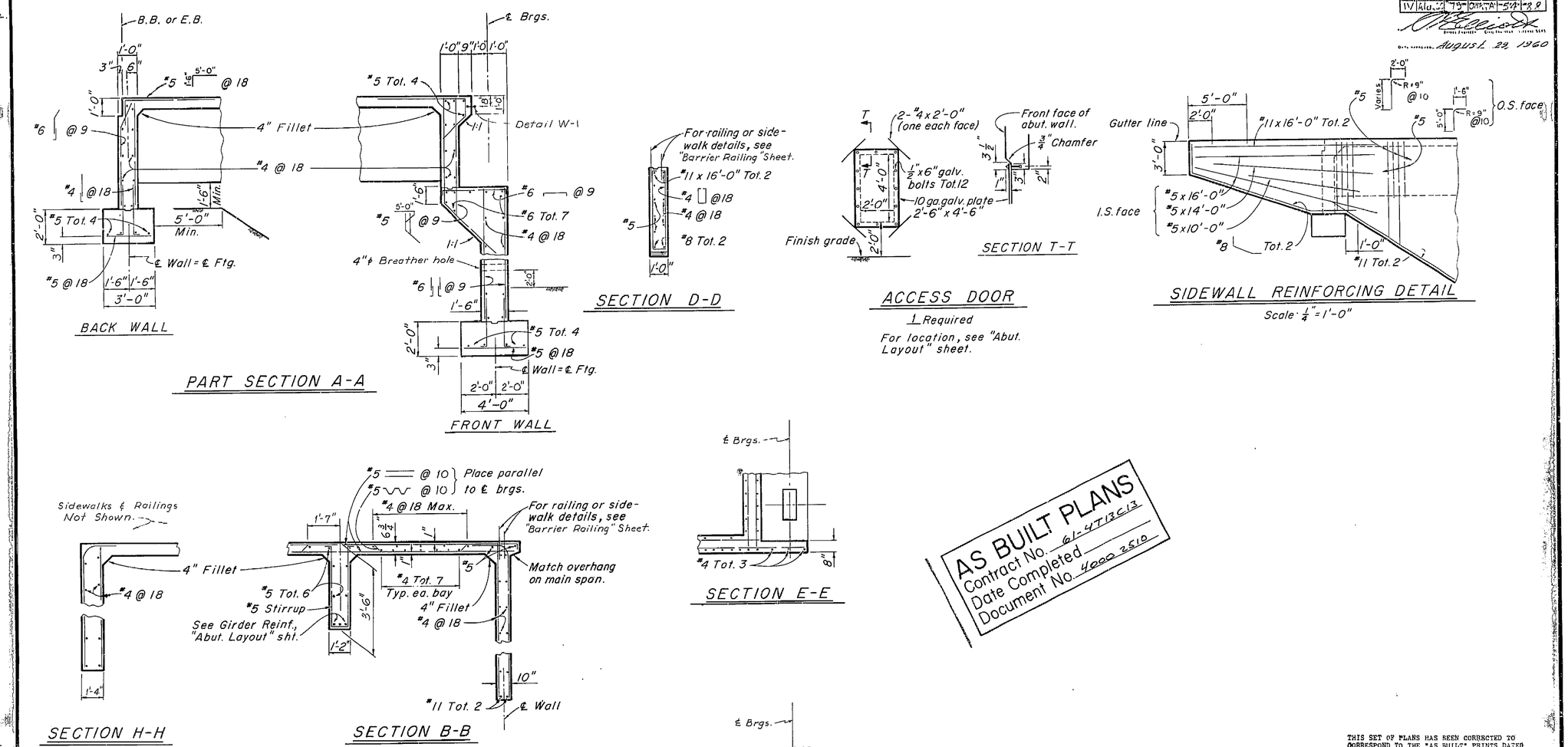
U-0039·1 (1)

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 94 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | Ala. | 79 | Orig. Pt. | 54 | 28 |

August 29, 1960

Revision
Note removed
7-10-59 DB.L.




AS BUILT PLANS
Contract No. 61-471313
Date Completed
Document No. 4000 3510

Note: For location of Sections, see "Abutment Layout" sheet.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 8-24-1960, AS SUBMITTED BY RESIDENT ENGINEER T. W. Black
TRACINGS CORRECTED BY: W.G. DATE: 5-10-65

STANDARD DRAWING
DESIGN
DETAILS
Revised 11-58

BRIDGE DEPARTMENT
... DESIGN SECTION ...
8
Project Designer
Chief Designer
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS
Special Recommendations
Bridge Engineer 6729

2/59
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL
W. PORTAL SERVICE RD. BR. #1
BIN TYPE ABUTMENT DETAILS

Except as shown
SCALE 1/4" = 1'-0"
BRIDGE 28-15
FILE XS-22-4
DRAWING C-5978-54

PREL. DRAWING NO. P-5978

BX 235

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-1-71 SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 95 | 153 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
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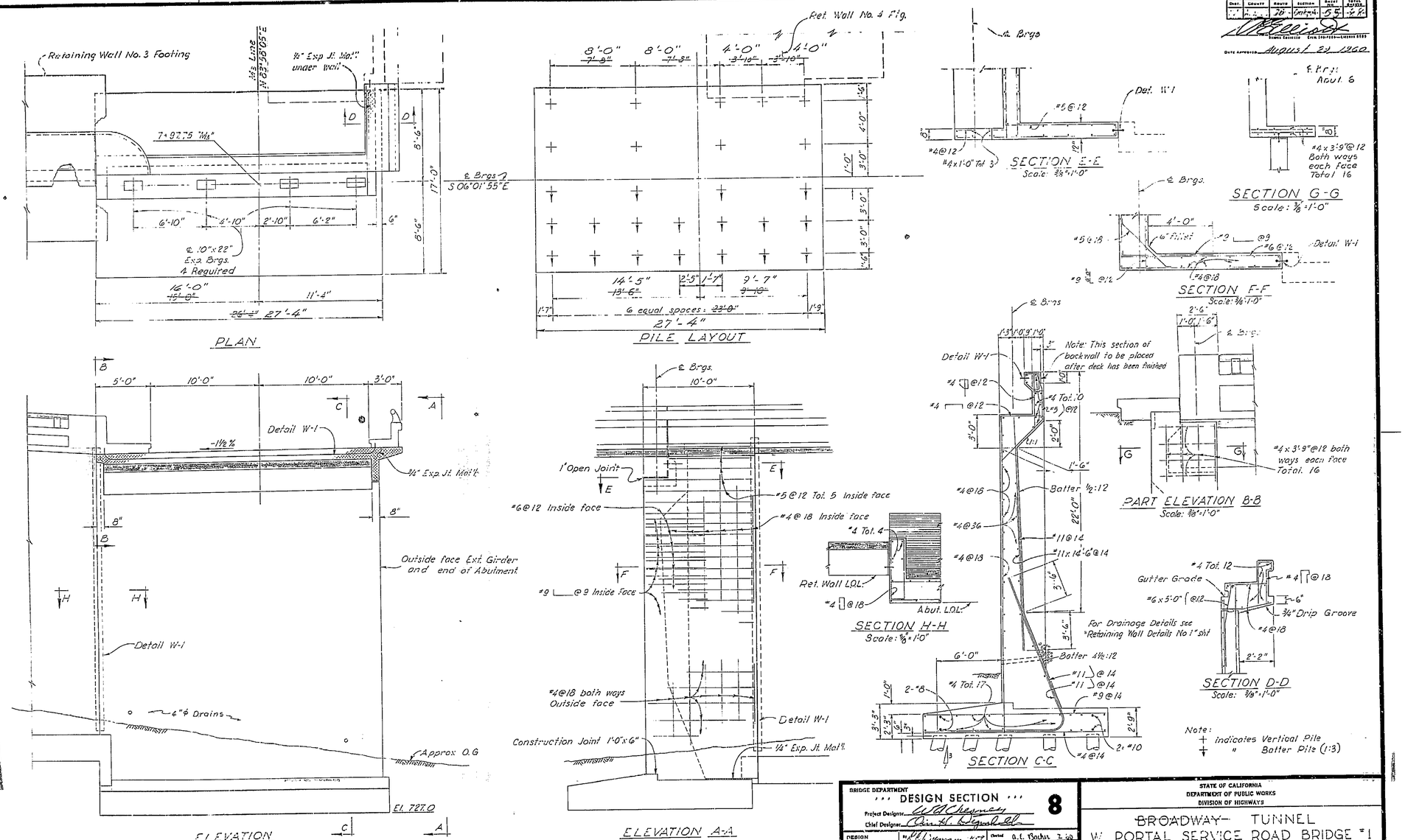
| | | 70 | Contract | 55 | |

DATE APPROVED August 29, 1960




AS BUILT PLANS
Contract No. 61-4713C13
Date Completed
Document No. 4000 25:0

95

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 9, 1969, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: VG DATE: 6-10-65

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: W. A. Chesney
Chief Designer: [signature]

| | | | |
|---|---|---|---|
| DESIGN | By [signature] | Checked | A. L. Bacher 2-60 |
| DETAILS | By [signature] | Checked | J. K. [signature] 2-60 |
| QUANTITIES | By [signature] | Checked | [signature] 2-60 |
| SPECIFICATIONS | By | Plans and Specs. Contained | |

Approval Recommended by [signature] Engineer of Design
Civil Engr. License No. 4728

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL
W. PORTAL SERVICE ROAD BRIDGE #1

ABUTMENT NO. 6

EXCEPT AS NOTED SCALE ¼"=1'-0" | BRIDGE 28-15 | FILE | DRAWING C-5978-55

Bx 235 Disregard prints bearing earlier numbers

PREL. DRAWING No. P-5978 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [signature] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' SCALE 1" = 20' SCALE 1" = 20'
ClibPDF - www.fastio.com

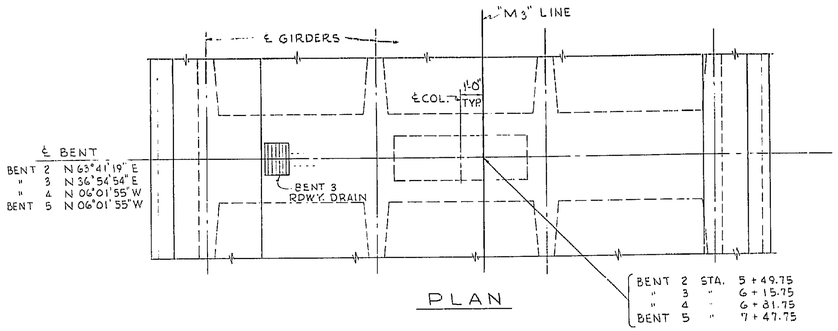
| FED. ROAD DIST. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 96 | 163 |

U-0039-1 (1)

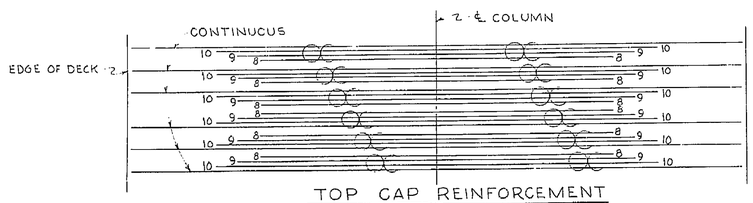
| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| IV | Alp. | Co | 25-Only | 56 | 57 |

DATE APPROVED August 29 1960

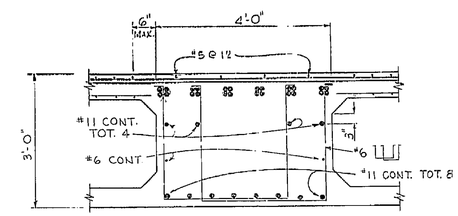
BRIDGE ENGINEER — CIVIL ENGINEER—HIGHWAY BRIDGE



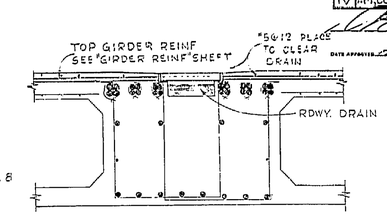

PLAN




TOP CAP REINFORCEMENT

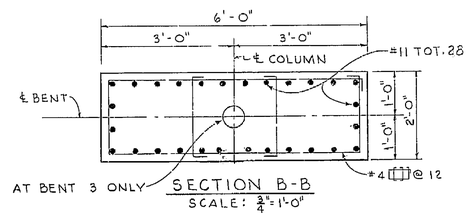



SECTION A-A
BENTS 2-4-5

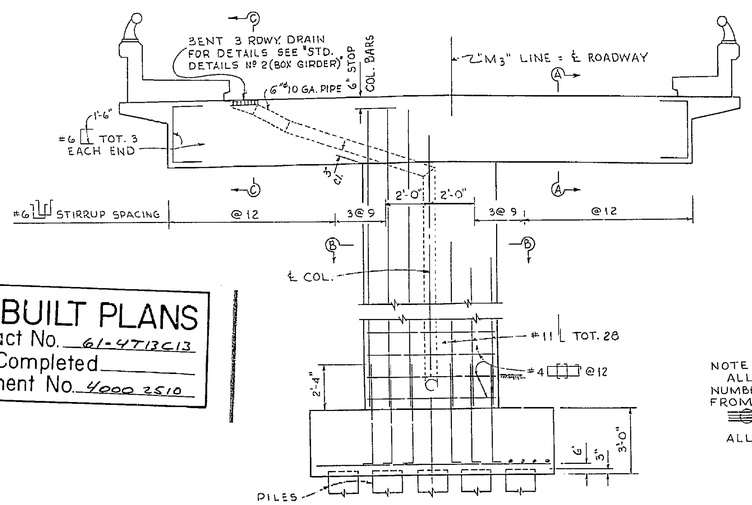



SECTION C-C
BENT 3
FOR DETAILS NOT SHOWN SEE SECTION A-A

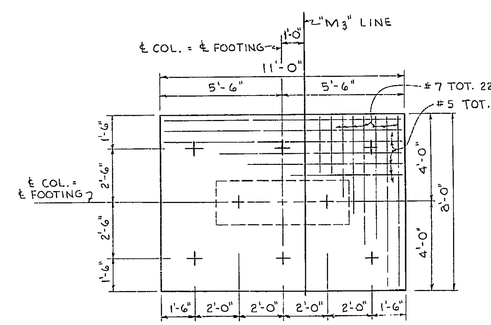
SCALE: 3/8" = 1'-0"



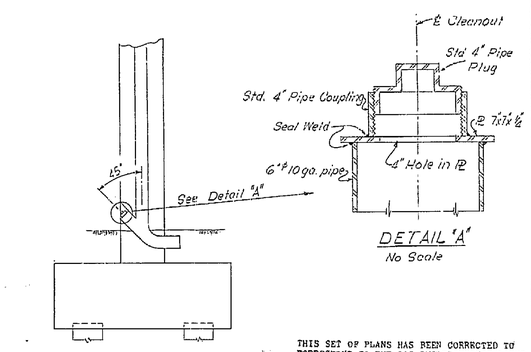

SECTION B-B
SCALE: 3/4" = 1'-0"




ELEVATION




FOOTING PLAN




DOWNSPOUT CLEANOUT
Scale: 3/8" = 1'-0"

DETAIL "A"
No Scale

NOTE:
ALL REINFORCEMENT #11 UNLESS NOTED OTHERWISE.
NUMBERS AT ENDS OF BARS INDICATE DISTANCE IN FEET FROM ℄ COLUMN FOR TOP REINFORCEMENT.
INDICATES BUNDLED BARS.

ALL BENTS SIMILAR EXCEPT AS NOTED

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER [illegible]
TRACINGS CORRECTED BY: [illegible] DATE: 6-10-65

AS BUILT PLANS
Contract No. 61-471313
Date Completed
Document No. 4000 2510

96

BRIDGE DEPARTMENT
... DESIGN SECTION ...
8

Project Designer: [illegible]
Chief Designer: [illegible]

| | | | |
|---|---|---|---|
| DESIGN | [illegible] 12-59 | Checked | [illegible] 2-60 |
| DETAILS | [illegible] 12-59 | Checked | [illegible] 2-60 |
| QUANTITIES | [illegible] 2-60 | Checked | [illegible] 2-60 |
| SPECIFICATIONS | By | Plans and Spec. Checked | |

Approved Recommended by [illegible] Engineer of Design — Civil Eng. License No. ..... Date

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
W. PORTAL SERVICE RD. BR. #1

BENTS

EXCEPT AS NOTED SCALE 3/8" = 1'-0" | BRIDGE 28-15 | FILE | DRAWING P-5978

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978

119

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

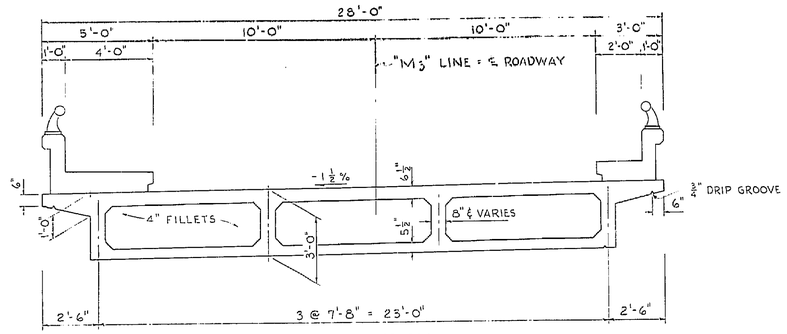
U-0039-1(1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 97 | 163 |

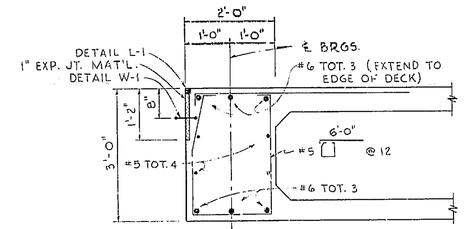
| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 1V | Ala. | 45 | Oak-A | 5.7-A.1 | |

BRIDGE ENGINEER — CIVIL ENGINEER—TUNNEL DIV.

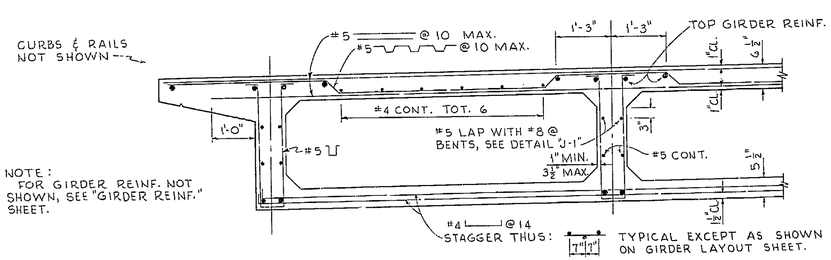
DATE APPROVED August 29 1960




TYPICAL SECTION
SCALE: ⅜" = 1'-0"



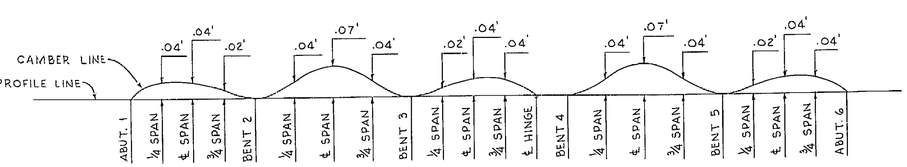

END DIAPHRAGM
SCALE: ¾" = 1'-0"




NOTE:
FOR GIRDER REINF. NOT SHOWN, SEE "GIRDER REINF." SHEET.

PART TYPICAL SECTION
SCALE: ¾" = 1'-0"

AS BUILT PLANS
Contract No. 61-471213
Date Completed
Document No. 4000 2510




CAMBER DIAGRAM FOR TOTAL GIRDER DEFLECTION DUE TO DEAD LOADS

NOTES:
THE TOTAL DEFLECTION WILL BE REACHED ABOUT 4 YEARS AFTER FALSEWORK REMOVAL. FOR VALUES AT TIME OF FALSEWORK REMOVAL DIVIDE THOSE SHOWN BY 4. THE AMOUNT OF CAMBER FOR CONSTRUCTION WILL BE DETERMINED BY THE ENGINEER.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1965, AS SUBMITTED BY RESIDENT ENGINEER J. W. Block
TRACINGS CORRECTED BY: LG DATE: 6-10-65

97

BRIDGE DEPARTMENT
*** DESIGN SECTION *** 8
Project Designer: W. M. Chesney
Chief Designer: Chas. H. Raymond

| | | | |
|---|---|---|---|
| DESIGN | BY W. M. Chesney 12-1-59 | Checked | O.F. Marks 2-4-60 |
| DETAILS | BY [illegible] 12-1-59 | Checked | O.F. Marks 2-4-60 |
| QUANTITIES | BY [illegible] 2-4-60 | Checked | [illegible] 2-4-60 |
| SPECIFICATIONS | BY | Plans and Bases Completed | |

Approval Recommended by [illegible] Engineer of Design
Civil Engr. License No. 6718

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
W. PORTAL SERVICE RD. BR. #1

TYPICAL SECTION

SCALE AS NOTED | BRIDGE 28-15 | FILE | DRAWING C-5978-57

BX 235 Disregard prints bearing earlier numbers

PREL. DRAWING No. P-5978

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

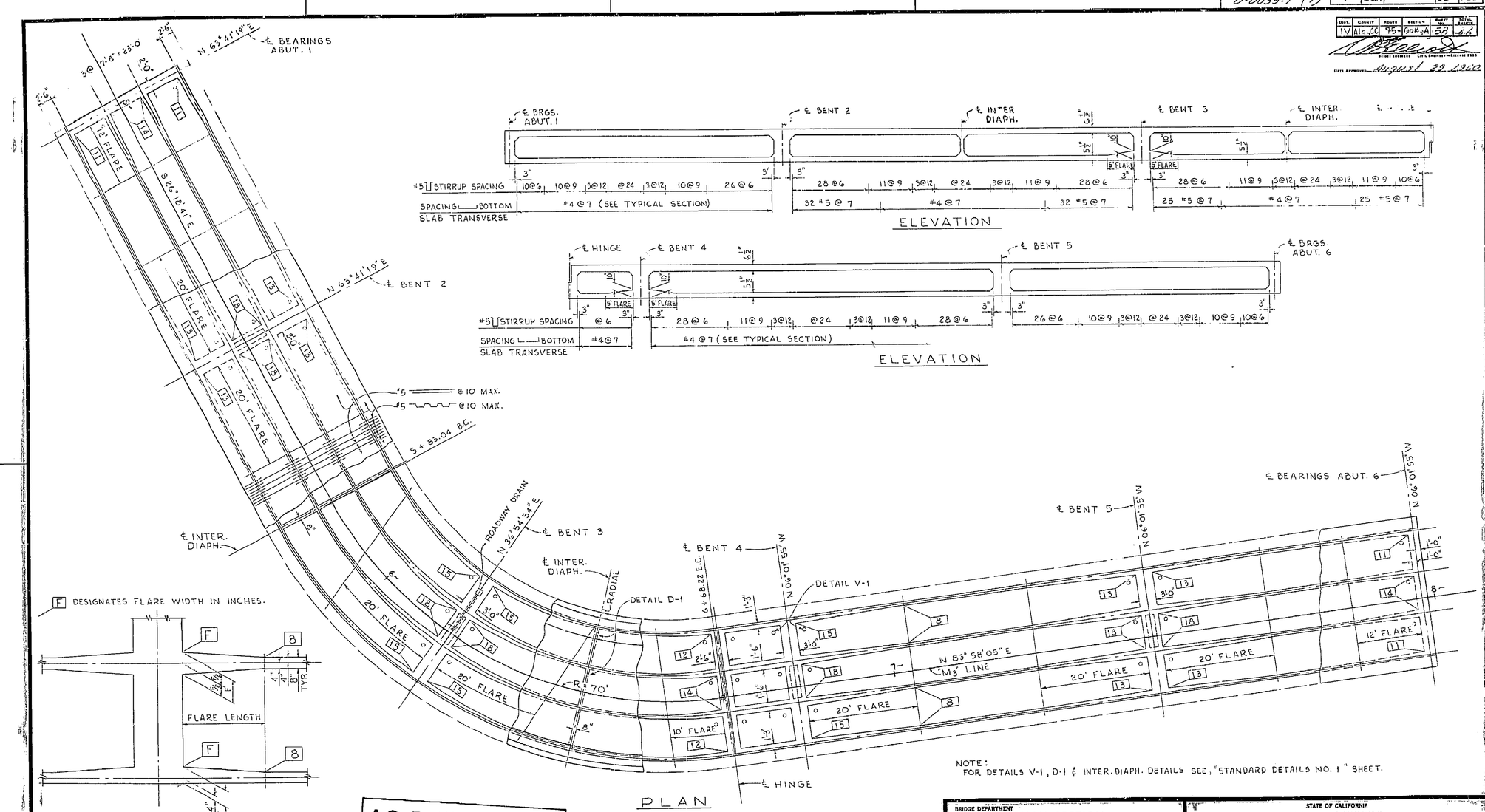
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

U-0039-1 (1)

| FED. ROAD DIV. No. | STATE | F. A. PROJECT No. | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 98 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| IV | Ala. CO | 95 | GOK & A | 58 | 66 |

DATE APPROVED August 29, 1960




NOTE:
FOR DETAILS V-1, D-1 & INTER. DIAPH. DETAILS SEE, "STANDARD DETAILS NO. 1" SHEET.

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29, 1969, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: VG DATE: 6-10-65

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer W. A. Chesnessy
Chief Designer Ain H. Degenkolb

| | | | |
|---|---|---|---|
| DESIGN | By Q. O'Hollow 12-59 | Checked A. S. Bailey 2-60 | |
| DETAILS | By [illegible] 12-59 | Checked J. K. Hill 2-60 | |
| QUANTITIES | By [illegible] 2-60 | Checked [illegible] 2-60 | |
| SPECIFICATIONS | By | Plans and Specs. Compared | |

Approval Recommended by [signature] Engineer of Design — CIVIL Engr. License No. 4728

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
W. PORTAL SERVICE RD. BR. #1
GIRDER LAYOUT

EXCEPT AS NOTED SCALE 1/8" = 1'-0" | BRIDGE 28-15 | FILE | DRAWING C-5978-5P

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978 | 26T | 3-4 | 4-4 | 66 | 121

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [signature] TITLE [illegible]

98

ClibPDF - www.fastio.com

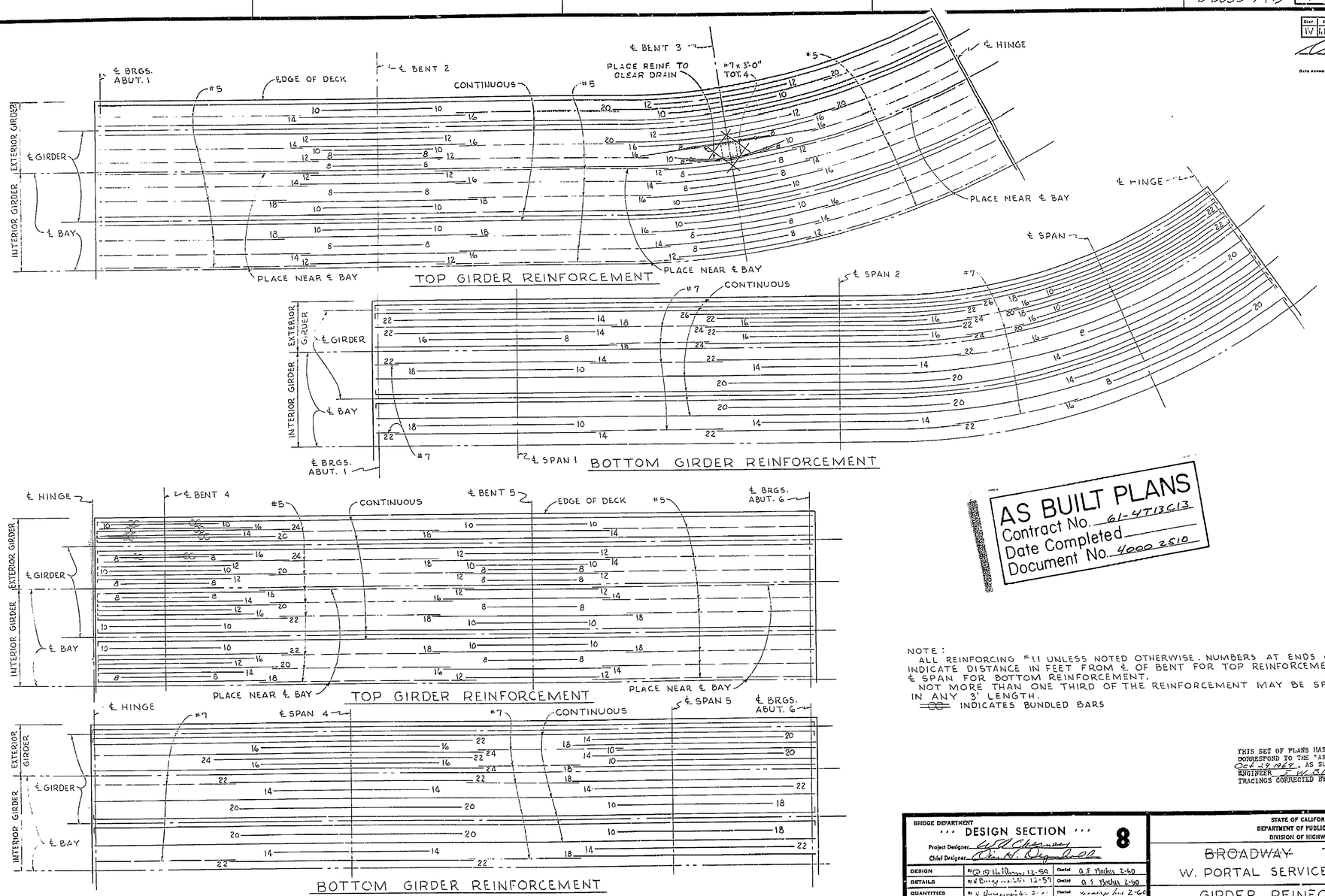
V-0039-1 (1)

| FED. ROAD DIV. NO | STATE | F. A. PROJECT NO | SHEET NO | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 99 | 103 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| IV | Ala. Co. | 25 | Oak. A | 59 | 84 |

Bridge Engineer  Civil Engineer

Date approved: August 29 1962




AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

NOTE:
ALL REINFORCING #11 UNLESS NOTED OTHERWISE. NUMBERS AT ENDS OF BARS INDICATE DISTANCE IN FEET FROM ℄ OF BENT FOR TOP REINFORCEMENT OR ℄ SPAN FOR BOTTOM REINFORCEMENT.
NOT MORE THAN ONE THIRD OF THE REINFORCEMENT MAY BE SPLICED IN ANY 3' LENGTH.
⊂⊃ INDICATES BUNDLED BARS

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1962, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: KG DATE: 8-10-65

99

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer
Chief Designer

| | | | |
|---|---|---|---|
| DESIGN | By O. H. Hoffman 12-59 | Checked | A. F. Mathes 2-60 |
| DETAILS | By N. Bingamin 12-59 | Checked | A. F. Mathes 2-60 |
| QUANTITIES | By N. Bingamin 2-60 | Checked | [illegible] 2-60 |
| SPECIFICATIONS | By | Plans and Spec. Checked | |

Approval Recommended by: Engineer of Design  Chief Engr. License No. 4728

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
W. PORTAL SERVICE RD. BR. #1

GIRDER REINFORCEMENT

SCALE NONE | BRIDGE 28-15 | FILE | DRAWING C-59-8. 5S

BX 235  Disregard prints bearing earlier numbers →  PREL. DRAWING No. P-5978  122

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

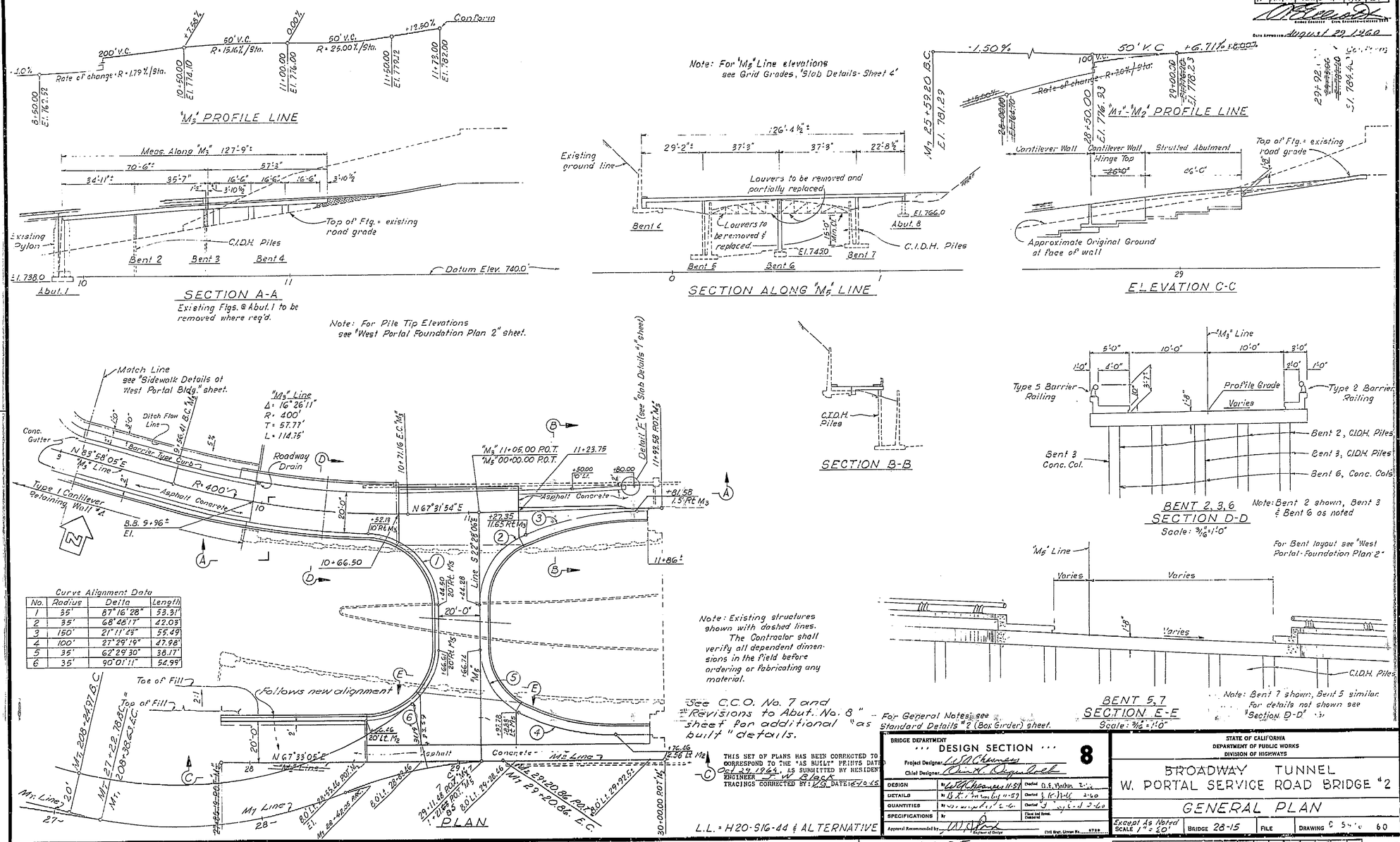
ClibPDF - www.fastio.com

U-0039-1 (1)

| FED. ROAD DIV. No | STATE | F.A. PROJECT No | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 100 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | San Diego | 75 | Oak A | 60 | 81 |

Date Approved August 29 1960




Curve Alignment Data

| No. | Radius | Delta | Length |
|---|---|---|---|
| 1 | 35' | 87°16'28" | 53.31' |
| 2 | 35' | 68°48'17" | 42.03' |
| 3 | 150' | 21°11'43" | 55.49' |
| 4 | 100' | 27°29'19" | 47.98' |
| 5 | 35' | 62°29'30" | 38.17' |
| 6 | 35' | 90°01'11" | 54.99' |

Note: Existing structures shown with dashed lines. The Contractor shall verify all dependent dimensions in the field before ordering or fabricating any material.

See C.C.O. No. 7 and Revisions to Abut. No. 8 sheet for additional "as built" details.

For General Notes see Standard Details "2 (Box Girder) sheet.

L.L. = H20-S16-44 & ALTERNATIVE

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer: W. A. Chenoweth
Chief Designer: Dirk H. Dijenbeck
Approval Recommended by: Engineer of Design
Civil Engr. License No. 5728

| | | | |
|---|---|---|---|
| DESIGN | W. A. Chenoweth 11-59 | Checked | O. E. Nielsen 2-60 |
| DETAILS | W. K. Fitzmaurice 11-59 | Checked | J. K. Ingalls 2-60 |
| QUANTITIES | W. A. Chenoweth 2-60 | Checked | J. K. Ingalls 2-60 |
| SPECIFICATIONS | By | Checked | Final and Final Checked |

8

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29, 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: J.S. DATE 6-10-65

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
W. PORTAL SERVICE ROAD BRIDGE #2

GENERAL PLAN

Except As Noted SCALE 1" = 50' | BRIDGE 28-15 | FILE | DRAWING C 54-60

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 5978

123

AS BUILT PLANS
Contract No. 61-471313
Date Completed
Document No. 4000 2510

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
ClibPDF - www.fastio.com

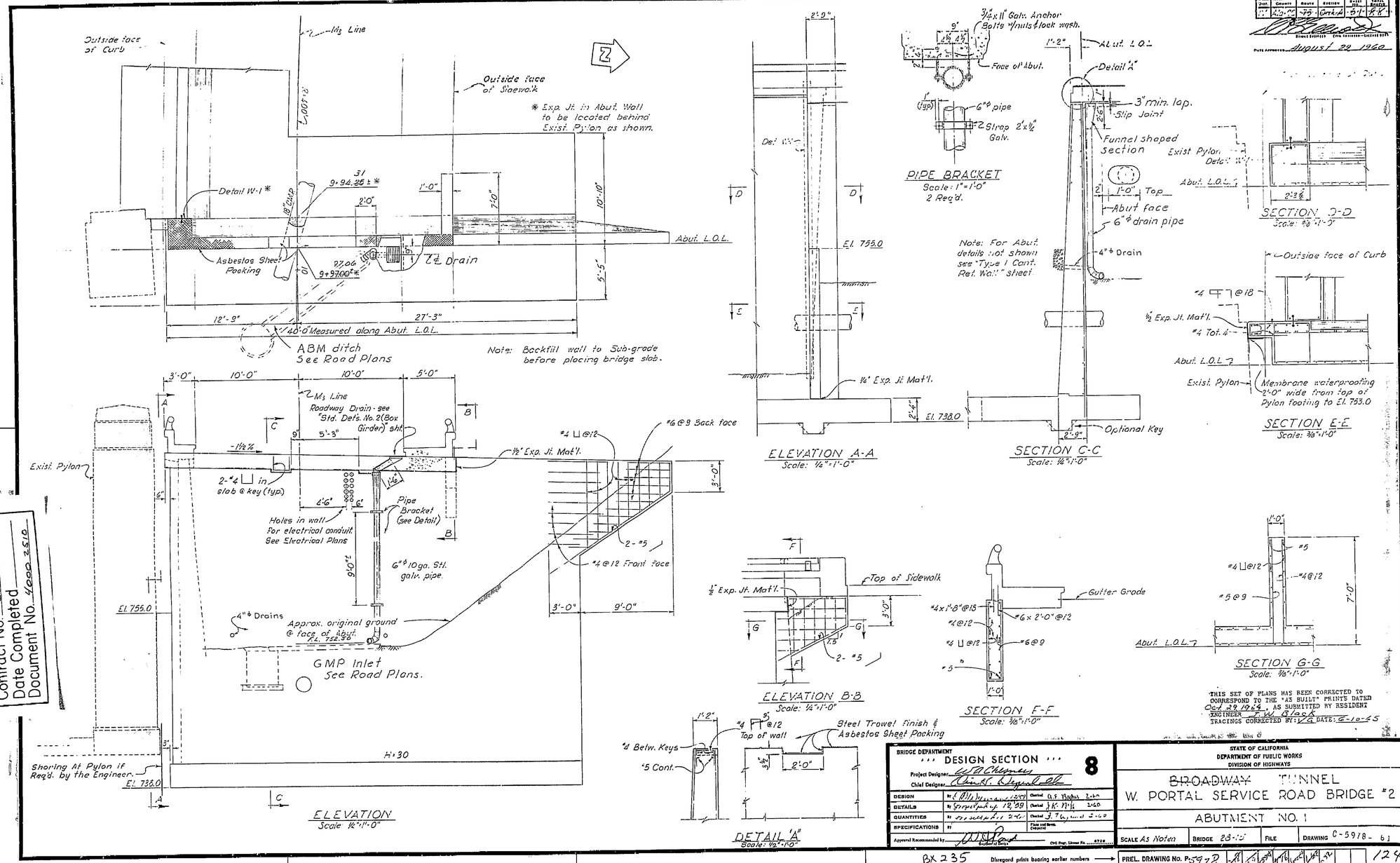
| FED. ROAD DIST. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 101 | 163 |

V-0039.1 (1)

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | Los Ang. | 99 | Grade Sep. | 5-1-R.R. | |

DIRECTOR OF PUBLIC WORKS — CHIEF ENGINEER-GOVERNOR

DATE APPROVED August 22 1960




AS BUILT PLANS
Contract No. 61-417213
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER T. W. Black
TRACINGS CORRECTED BY: VG DATE: 6-10-65

BRIDGE DEPARTMENT
"DESIGN SECTION" 8
Project Designer: W. H. Chapman
Chief Designer: Chas. S. Siegel
DESIGN — Checked: A. F. Bogdan
DETAILS — Checked: J. K. Mills
QUANTITIES — Checked: J. Thomas
SPECIFICATIONS
Plans and Data Checked
Approval Recommended by: Bridge Engineer — Civil Engr. License No. 6728

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
W. PORTAL SERVICE ROAD BRIDGE #2
ABUTMENT NO. 1

SCALE As Noted | BRIDGE 28-1.5 | FILE | DRAWING C-5978-61

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978

124

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ___ SIGNATURE ___ TITLE ___

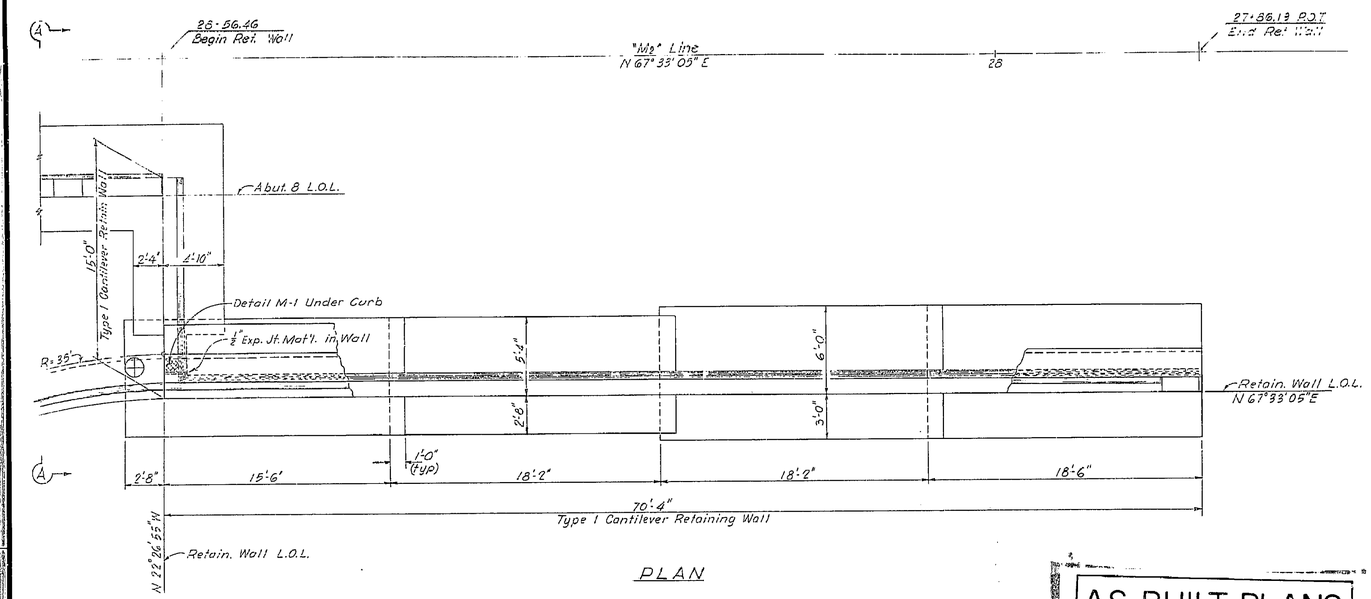
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 103 | 163 |

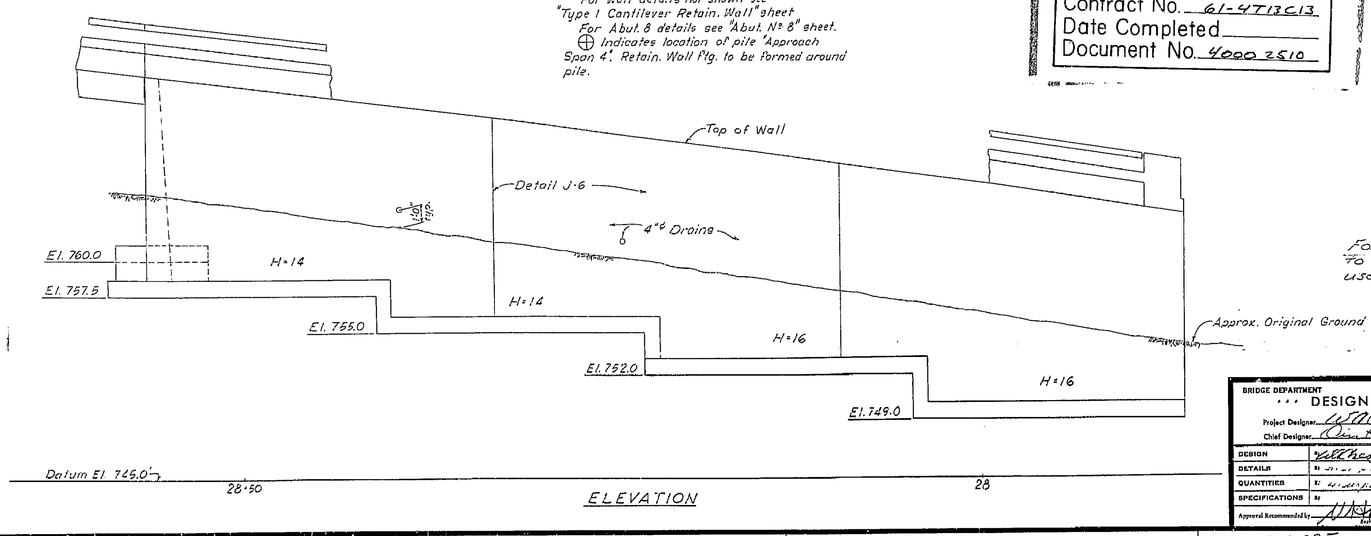
| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| | | | | 63 | 99 |

DATE APPROVED August 29, 1960

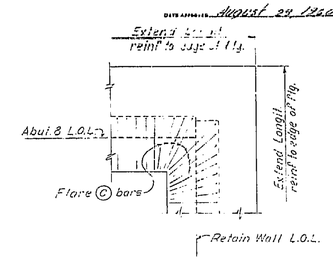



PLAN

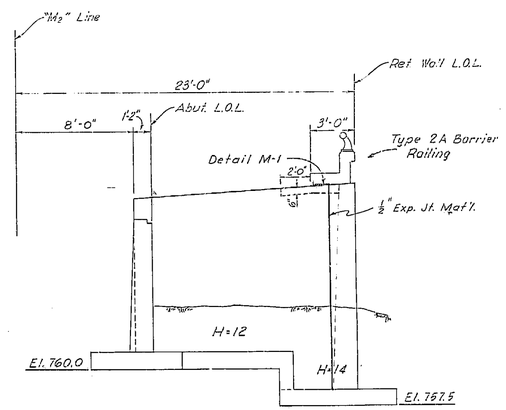
Note:
For wall details not shown see "Type 1 Cantilever Retain. Wall" sheet
For Abut. 8 details see "Abut. No. 8" sheet.
⊕ Indicates location of pile "Approach Span 4". Retain. Wall Ftg. to be formed around pile.




ELEVATION




FOOTING CORNER DETAIL




ELEVATION A-A

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

For "As Built" information see "Revisions to Abutment No. 8" sheet. This sheet not used

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 29, 1969, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: VG DATE: 6-10-65

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8
Project Designer W. A. Chesney
Chief Designer Dan H. Dyndall

| | | | |
|---|---|---|---|
| DESIGN | W. A. Chesney 12-59 | Checked | A. F. Bacher 2-60 |
| DETAILS | | Checked | J. K. Nuff 2-60 |
| QUANTITIES | | Checked | J. Cyrus 2-60 |
| SPECIFICATIONS | | Plans and Specs. Compared | |
| Approval Recommended by | Engineer of Design | Civil Engr. License No. | 4789 |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
PORTAL SERVICE ROAD BRIDGE #2
ABUTMENT NO. 3 RETAINING WALL

SCALE 1/4" = 1'-0" | BRIDGE 28-15 | FILE | DRAWING C-5978-63

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978 | 127

103

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

ClibPDF - www.fastio.com

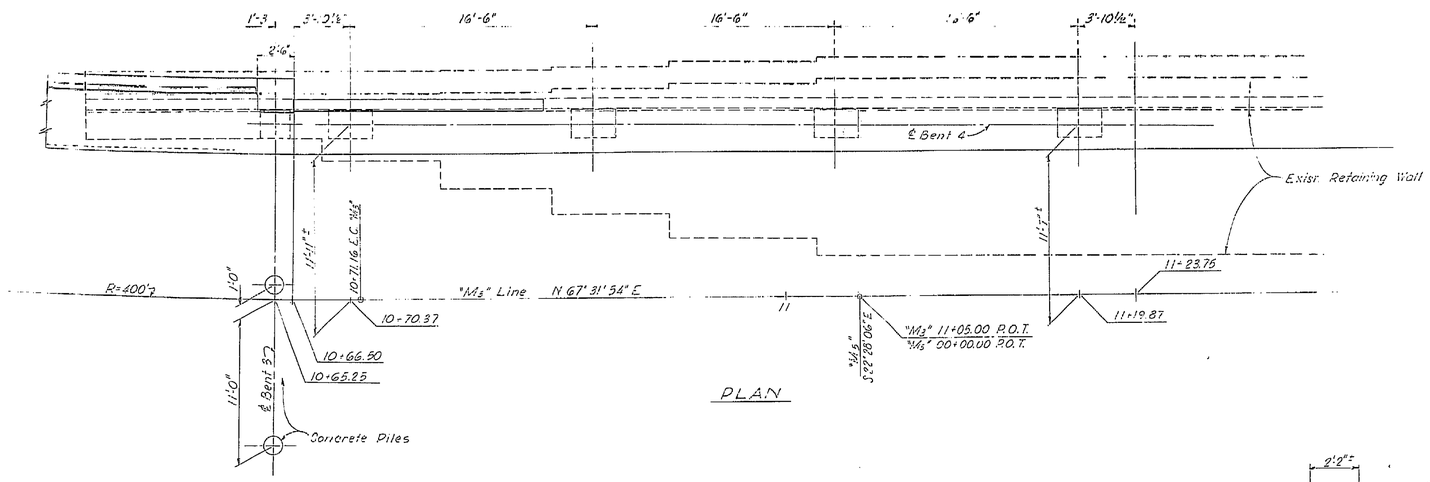
U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 104 | 163 |

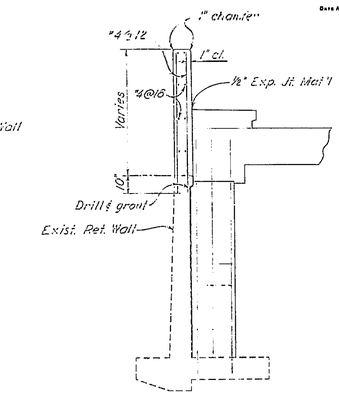
| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| | | -10- | CALIF. A | 6-4 | -98- |

ENGINEER ENGINEER CIVIL ENGINEER—CONTROL SYSTEM

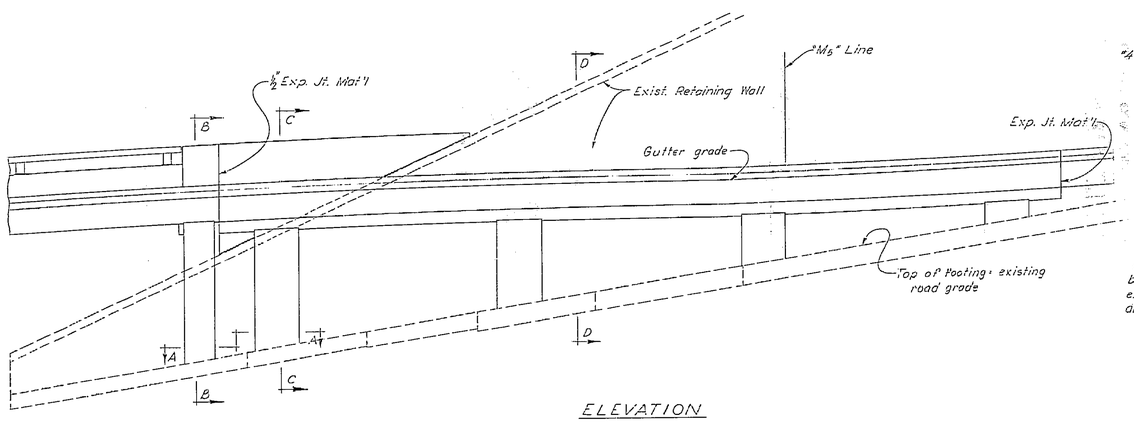
DATE APPROVED August 29, 1960



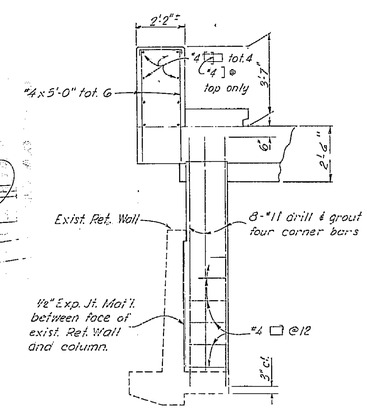

PLAN



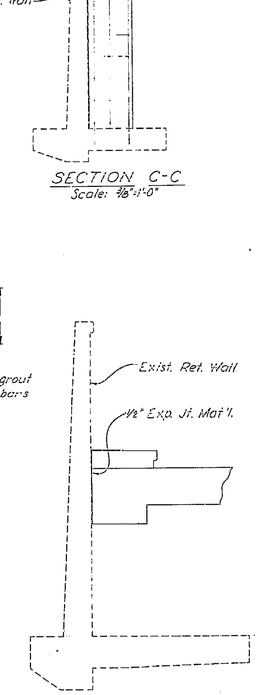

SECTION C-C
Scale: ⅜"=1'-0"



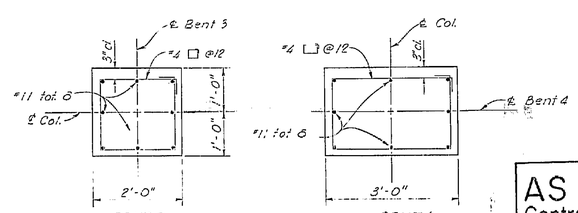

ELEVATION




SECTION B-B
AT BENT 3
Scale: ⅜"=1'-0"




SECTION D-D
Scale: ⅜"=1'-0"




SECTION A-A
Scale: ⅜"=1'-0"

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER F. W. Black
TRACINGS CORRECTED BY: VG DATE: 2-10-65

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

| BRIDGE DEPARTMENT *** DESIGN SECTION *** 8 | | | |
|---|---|---|---|
| Project Designer: W. M. Chesney | | | |
| Chief Designer: Chas. H. Dyrdek | | | |
| DESIGN | W. M. Chesney 12-59 | Checked | O. F. Nacho 2-60 |
| DETAILS | W. Simpsky 12/59 | Checked | J. K. Tyler 2-60 |
| QUANTITIES | W. Simpsky 12-59 | Checked | J. Figueroa 2-60 |
| SPECIFICATIONS | W. | Field and Bdgs. Designer | |
| Approval Recommended by: H. Rad, Engineer of Design | | Civil Eng. License No. 8789 | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
W. PORTAL SERVICE ROAD BRIDGE #2

BENTS NO. 3 AND 4

| Except as noted SCALE 1/2"=1'-0" | BRIDGE 28-15 | FILE | DRAWING C-5978-64 |
|---|---|---|---|

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P- 5-1-6 2-4-59

128

104

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

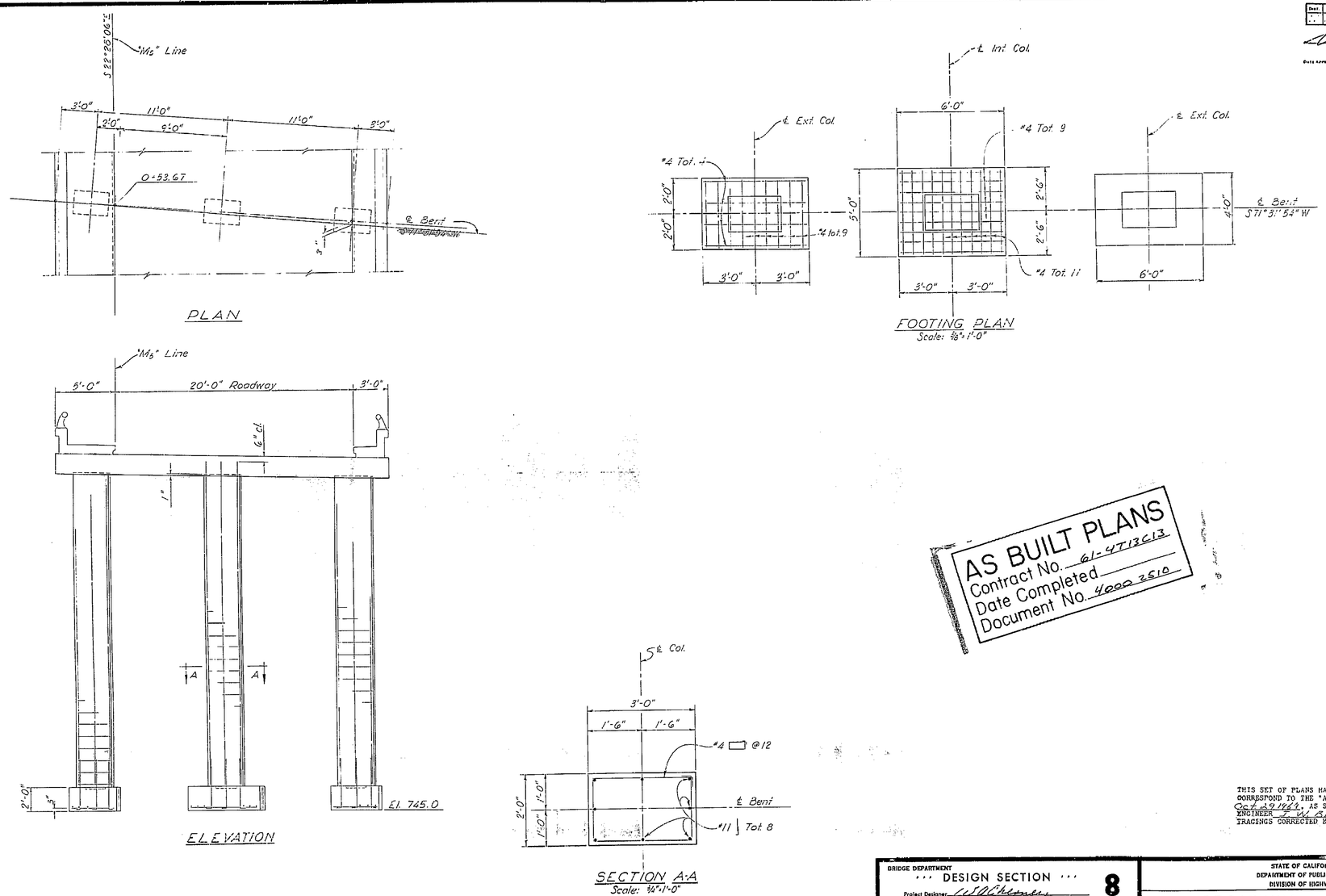
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"= 50' SCALE 1"= 20 SCALE 1"=20
ClibPDF - www.fastio.com

U-0039-1 (1)

| FED. ROAD DIST. No. | STATE | F. A. PROJECT No. | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 105 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| | | | | 65 | 80 |

Date approved August 29 1960




AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1969, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: VG DATE: 6-10-65

BRIDGE DEPARTMENT
DESIGN SECTION
8
Project Designer W. S. Chesney
Chief Designer Chris H. Degenkolb

| | | | |
|---|---|---|---|
| DESIGN | By W. S. Chesney 12-59 | Checked A. E. Barbu 2-60 | |
| DETAILS | By [illegible] 12/59 | Checked G. K. [illegible] 2-60 | |
| QUANTITIES | By [illegible] 2-60 | Checked [illegible] 2-60 | |
| SPECIFICATIONS | By | Plans and Specs. Compared | |
| Approval Recommended by | Engineer of Design | Civil Engr. License No. 6789 | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
W. PORTAL SERVICE ROAD BRIDGE #2

BENT NO. 6

Except As Noted SCALE 3/4"=1'-0" | BRIDGE 28-15 | FILE | DRAWING C-5978-65

Bx 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978 | 25 | 390 | 479 | 129

105

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

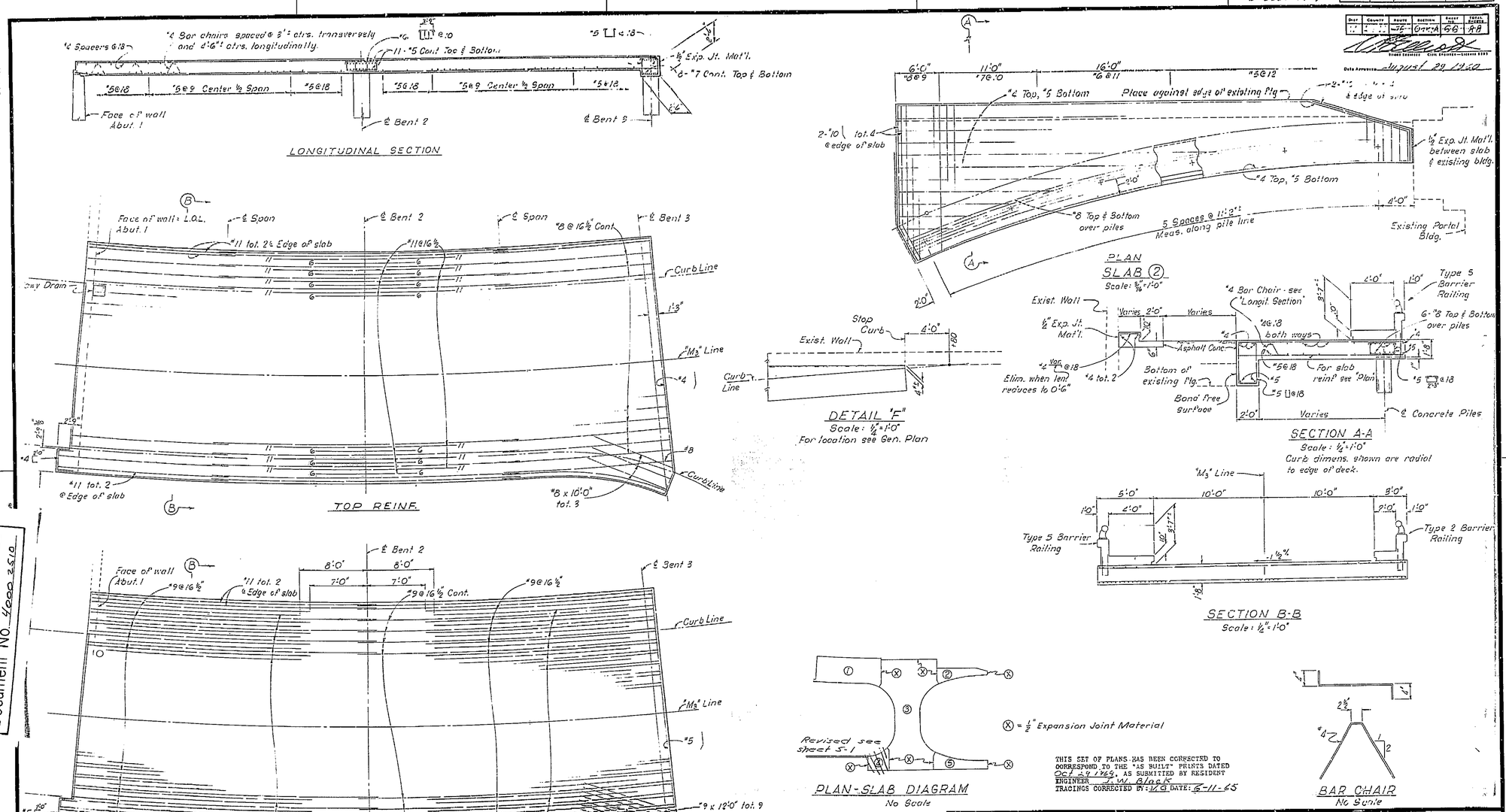
ClibPDF - www.fastio.com

U-0039-1(1)

| FED. ROAD DIV. No. | STATE | P. A. PROJECT No. | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 106 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|---|
| [illegible] | [illegible] | 75 | Oak-A | 66 | 88 |

Date Approved August 29 1960




THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1969, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: V.G. DATE: 6-11-65

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

106

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer W. A. Chesnes
Chief Designer Ain H. Degenkolb

| | | | |
|---|---|---|---|
| DESIGN | By W. A. Chesnes 1-60 | Checked | O. E. Barker 2-60 |
| DETAILS | By [illegible] 1-60 | Checked | O. E. Barker 2-60 |
| QUANTITIES | By [illegible] 4-60 | Checked | [illegible] |
| SPECIFICATIONS | By | Plans and Specs. Compared | |

Approval Recommended by W. A. Rock, Engineer of Design — Civil Engr. License No. 5789

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL
W. PORTAL SERVICE ROAD BRIDGE #2
SLAB DETAILS #1

SCALE As Noted | BRIDGE 28-15 | FILE | DRAWING C-5978-66

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. F-5978 | 130

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

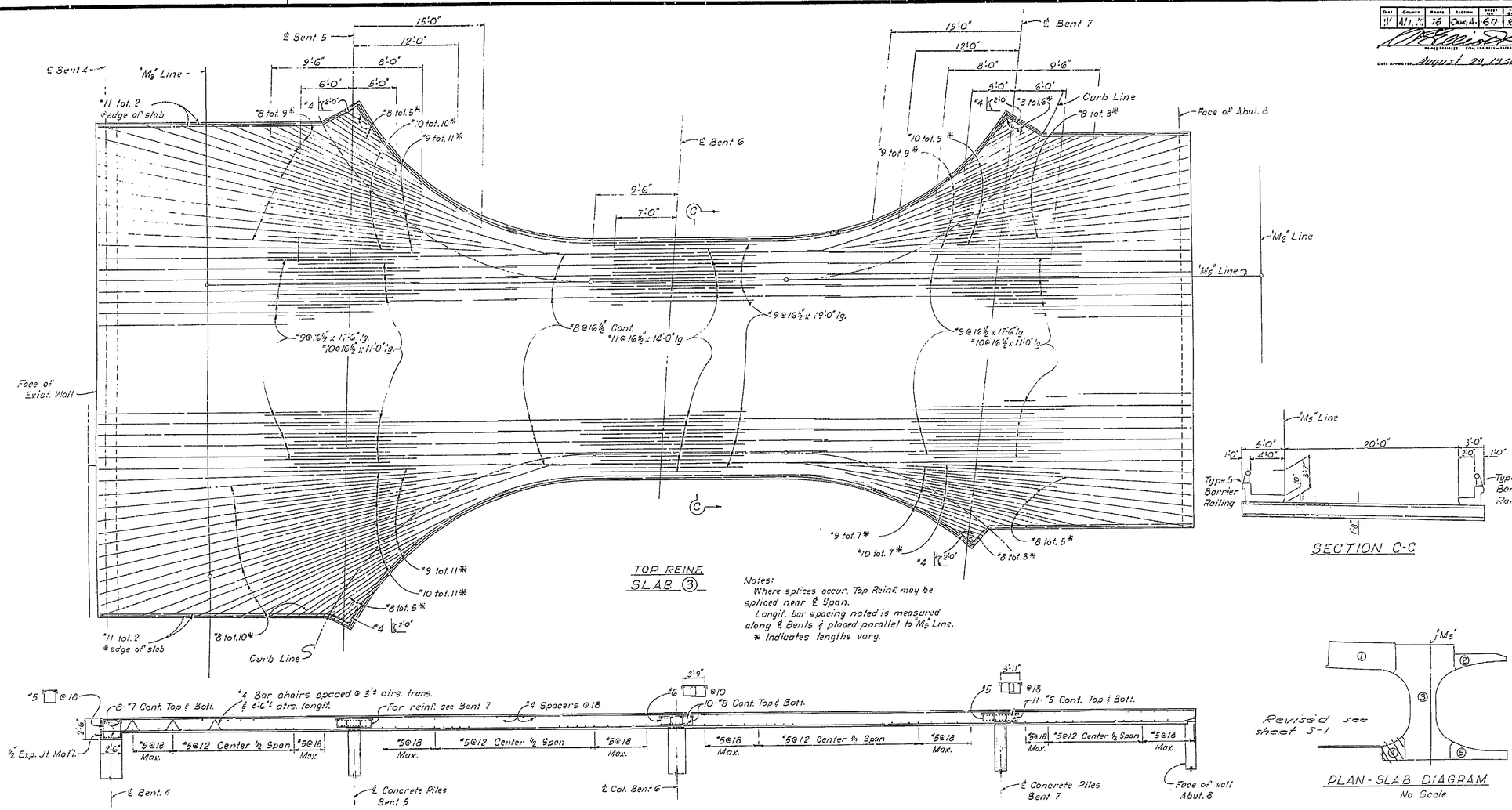
ClibPDF - www.fastio.com

U-0039-1 (4)

| FED. ROAD DIV. No. | STATE | F. A. PROJECT No. | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 107 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | POST MILE | SHEET No. |
|---|---|---|---|---|---|
| 11 | Alameda | 15 | Oak. A. | 6.11 | 84 |

DATE APPROVED August 29, 1960




TOP REINF. SLAB (3)

Notes:
Where splices occur, Top Reinf. may be spliced near ℄ Span.
Longit. bar spacing noted is measured along ℄ Bents & placed parallel to M5 Line.
* Indicates lengths vary.




SECTION C-C




LONGITUDINAL SECTION
For placing of distribution steel see "Slab Details - Sheet "3"
For Bar Chair det's, see "Slab Details - Sheet "1"




Revised see sheet S-1

PLAN - SLAB DIAGRAM
No Scale

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: _____ DATE: _____

BRIDGE DEPARTMENT
''' DESIGN SECTION '''
8
Project Designer: W. H. Chesney
Chief Designer: Alan H. Deguerd

| | | | |
|---|---|---|---|
| DESIGN | W. H. Chesney 12-59 | Checked | A. S. Yoshida 2-60 |
| DETAILS | H. S. K. Yoshida 12-59 | Checked | A. S. Yoshida 2-60 |
| QUANTITIES | [illegible] 2/61 | Checked | [illegible] 2-6-61 |
| SPECIFICATIONS | By | Plans and Rem. Compared | |

Approval Recommended by: [illegible] Engineer of Design — Civil Engr. License No. 6729

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
W. PORTAL SERVICE ROAD BRIDGE #2

SLAB DETAILS #2

Except As Noted
SCALE 3/16" = 1'-0"
BRIDGE 28-15
FILE
DRAWING C-5978-67

PREL. DRAWING No. P-5978

Box 235

Disregard prints bearing earlier numbers

131

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

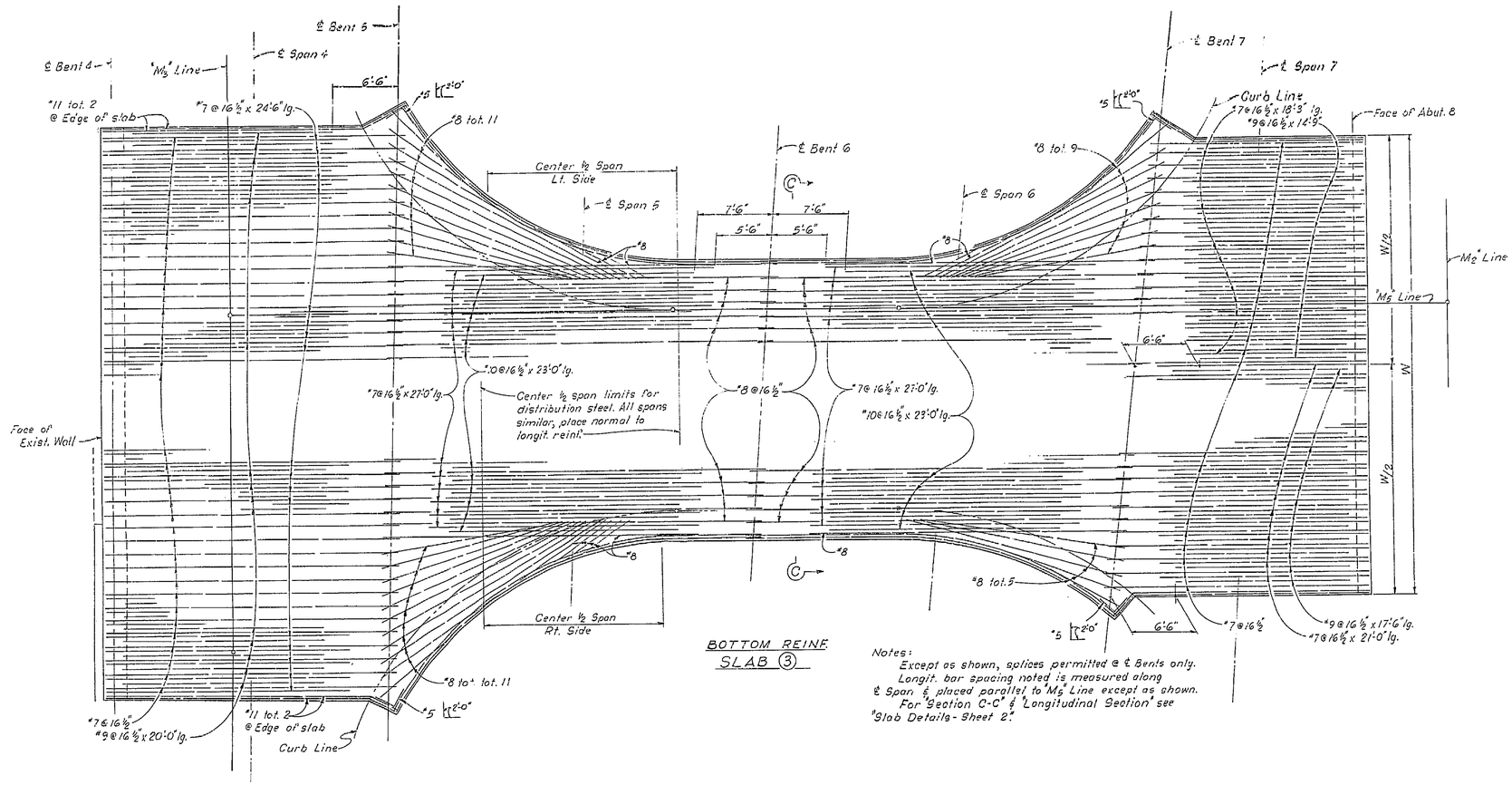
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

U-0039-1(1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 108 | 163 |

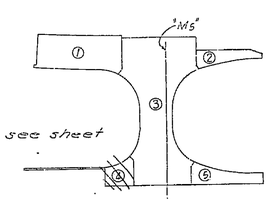
| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | Ala. | 00 | 28-Oak A | 63 | 89 |

DATE APPROVED August 29 1960




BOTTOM REINF.
SLAB ③

Notes:
Except as shown, splices permitted @ ℄ Bents only.
Longit. bar spacing noted is measured along ℄ Span & placed parallel to "Ms" Line except as shown.
For "Section C-C" & "Longitudinal Section" see "Slab Details - Sheet 2."




Revised see sheet S-1

PLAN - SLAB DIAGRAM
No Scale

AS BUILT PLANS
Contract No. 61-4713C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____ AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: _____ DATE: _____

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8

Project Designer: W. D. Chesney
Chief Designer: Chas. H. Dagnall

| | | | |
|---|---|---|---|
| DESIGN | W. D. Chesney 12-59 | Checked | A. J. Barber 2-60 |
| DETAILS | R. L. Barnsley 12-59 | Checked | A. J. Barber 2-60 |
| QUANTITIES | | Checked | |
| SPECIFICATIONS | | Plans Ind Spec. Checked | |

Approval Recommended by: H. W. Plank, Engineer of Design — Civil Engr. License No. 6728

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
W. PORTAL SERVICE ROAD BRIDGE #2

SLAB DETAILS #3

Except As Noted SCALE 3/16" = 1'-0" | BRIDGE 28-15 | FILE | DRAWING C-5478-08

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978 | 3-A | NO. | 1-2 | 132

108

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-1-72 SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

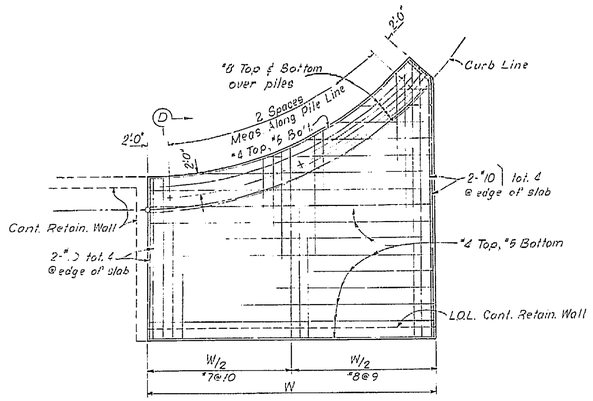
U-0039.1(1)

| FED. ROAD DIST. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 109 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | DATE APPROVED |
|---|---|---|---|---|---|
| 11 | [illegible] | 75 | 08-A-69-AA | | |

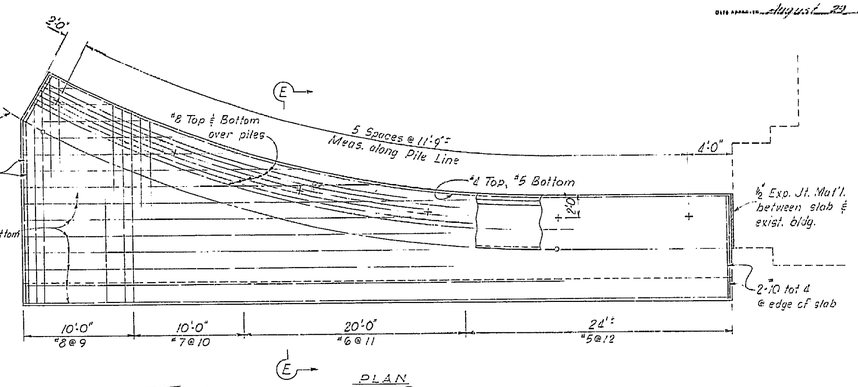
DIRECT ELEVATION — ELEV. DATUM — LOCATION REF.

DATE APPROVED August 29, 1969

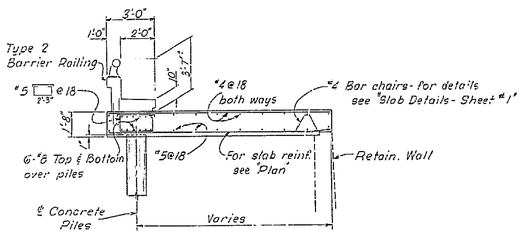



PLAN
SLAB (4)
Scale: 3/16"=1'-0"

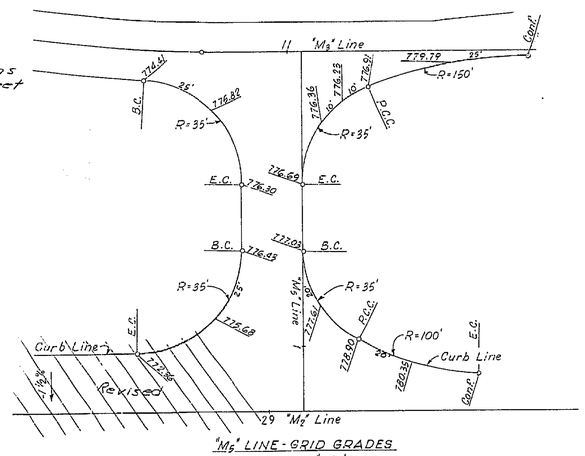
Revised. See Revisions to Abutment No. 8 sheet



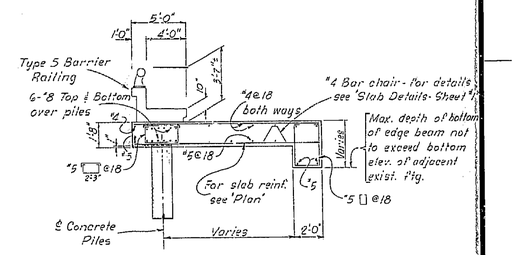

PLAN
SLAB (5)
Scale: 3/16"=1'-0"




SECTION D-D
Scale: 1/4"=1'-0"
Curb dimens. shown are radial with edge of deck

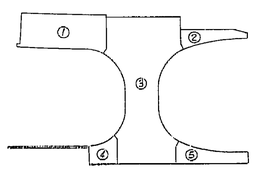



"M5" LINE - GRID GRADES
Scale: 1"=20'




SECTION E-E
Scale: 1/4"=1'-0"
Curb dimens. shown are radial with edge of deck.

AS BUILT PLANS
Contract No. 61-4T12613
Date Completed
Document No. 40120 2510




PLAN - SLAB DIAGRAM
No Scale

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED ____, AS SUBMITTED BY RESIDENT ENGINEER ____.
TRACINGS CORRECTED BY: ____ DATE: ____

BRIDGE DEPARTMENT
... DESIGN SECTION ...
8

Project Designer: [illegible]
Chief Designer: [illegible]

| | | | |
|---|---|---|---|
| DESIGN | By: [illegible] 1-60 | Checked | O. S. Pashay 2-60 |
| DETAILS | By: [illegible] 1-60 | Checked | O. S. Pashay 2-60 |
| QUANTITIES | By: [illegible] 2-60 | Checked | [illegible] 2-60 |
| SPECIFICATIONS | By: | Plans and Rqmts. Completed | |

Approval Recommended by: [illegible] Engineer of Design — CIVIL Reg. License No. 8729

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL
W. PORTAL SERVICE ROAD BRIDGE #2

SLAB DETAILS #4

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| As Noted | 28-15 | | C-5918-59 |

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978 | Aug 1, 1963

133

109

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50'
SCALE 1"=20'
SCALE 1"=20'
ClibPDF - www.fastio.com

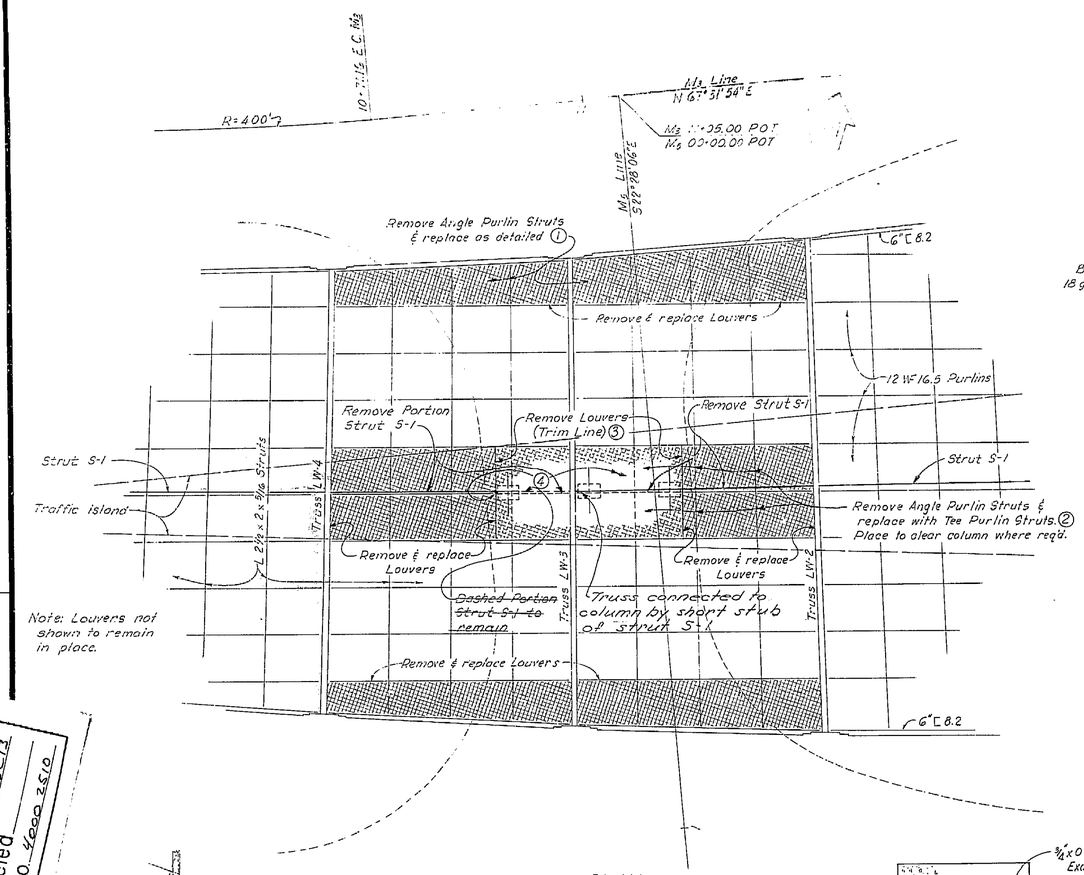
U-0039-1 (1)

| FED. ROAD DIV. No | STATE | F. A. PROJECT No | SHEET No | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 110 | 163 |

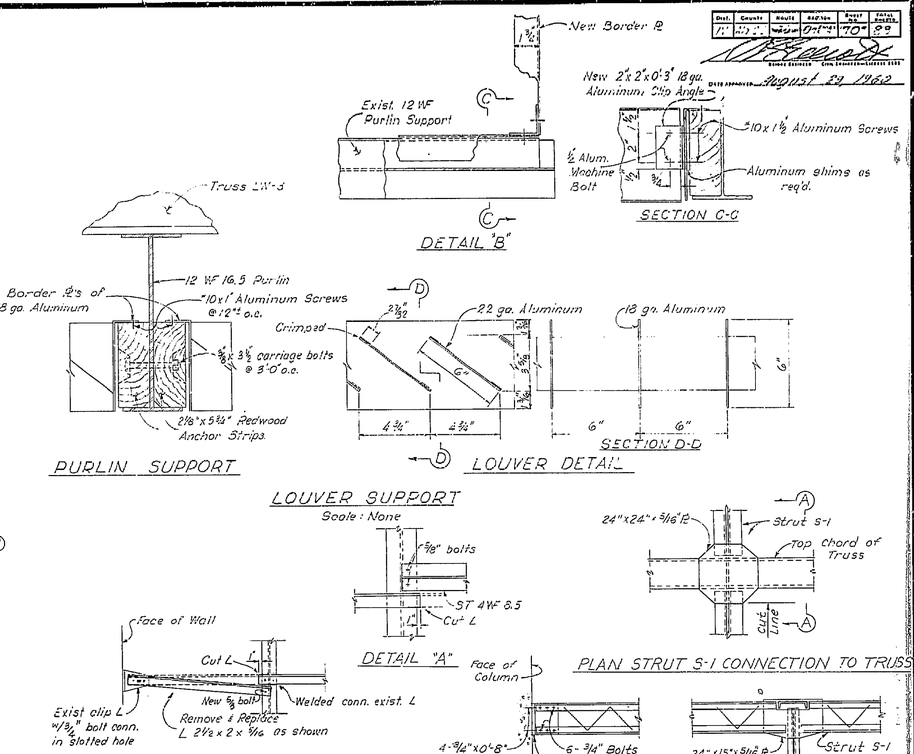
| Dist. | County | Route | Sec. No. | Sheet No. | Total Sheets |
|---|---|---|---|---|---|
| 7 | LA | 110 | 01 | 70 | 89 |

Bridge Designer — Civil Engineer — Structure Engineer

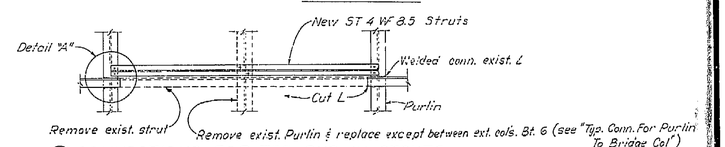
Date Approved August 29 1962



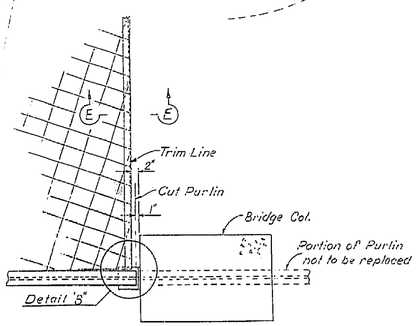

PLAN
Scale: 1/8"=1'-0"



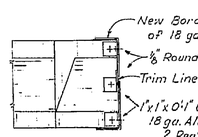

① CONNECTIONS FOR ANGLE PURLIN STRUTS
Scale: None



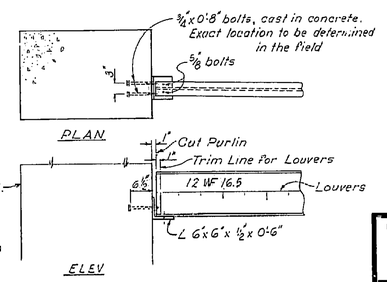

② CONNECTIONS FOR TEE PURLIN STRUTS
Scale: None




③ LOUVER TRIM LINE DETAIL
Scale: None




SECTION E-E




④ TYP. CONNECTION FOR PURLIN TO BRIDGE COL.
Scale: None

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: L.G. DATE: 2-11-65

AS BUILT PLANS
Contract No. 61-471813
Date Completed
Document No. 4000 2510

BRIDGE DEPARTMENT
··· DESIGN SECTION ···
8
Project Designer: W. H. Chesney
Chief Designer: E. L. Stoyanoff

| | | | |
|---|---|---|---|
| DESIGN | W. H. Chesney 2-60 | Checked | O. F. Nichols 3-60 |
| DETAILS | Gonzalez 2-60 | Checked | O. F. Nichols 3-60 |
| QUANTITIES | Gonzalez 2-60 | Checked | J. Lloyd 2-60 |
| SPECIFICATIONS | | Date and Sym. Checked | |

Approval Recommended by: W. H. Chesney — Engineer of Design — Civil Engr. License No. 5788

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

~~BROADWAY~~ TUNNEL
W. PORTAL SERVICE ROAD BRIDGE #2

EXISTING LIGHT CONTROL LOUVER REVISIONS

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| As Noted | 28-13 | | C-5973-70 |

BX 235 — Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978

134

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ' ' " SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' 200 400 600 700
SCALE 1" = 20' 0 50 100 200 300
ClibPDF - www.fastio.com

"Expansion Hinge" and "Rubber Waterstop" Details Rev. 1-59 R.T.K.

"Expansion Hinge" and "Rubber Waterstop" Det. Rev. 7-59 R.T.K.

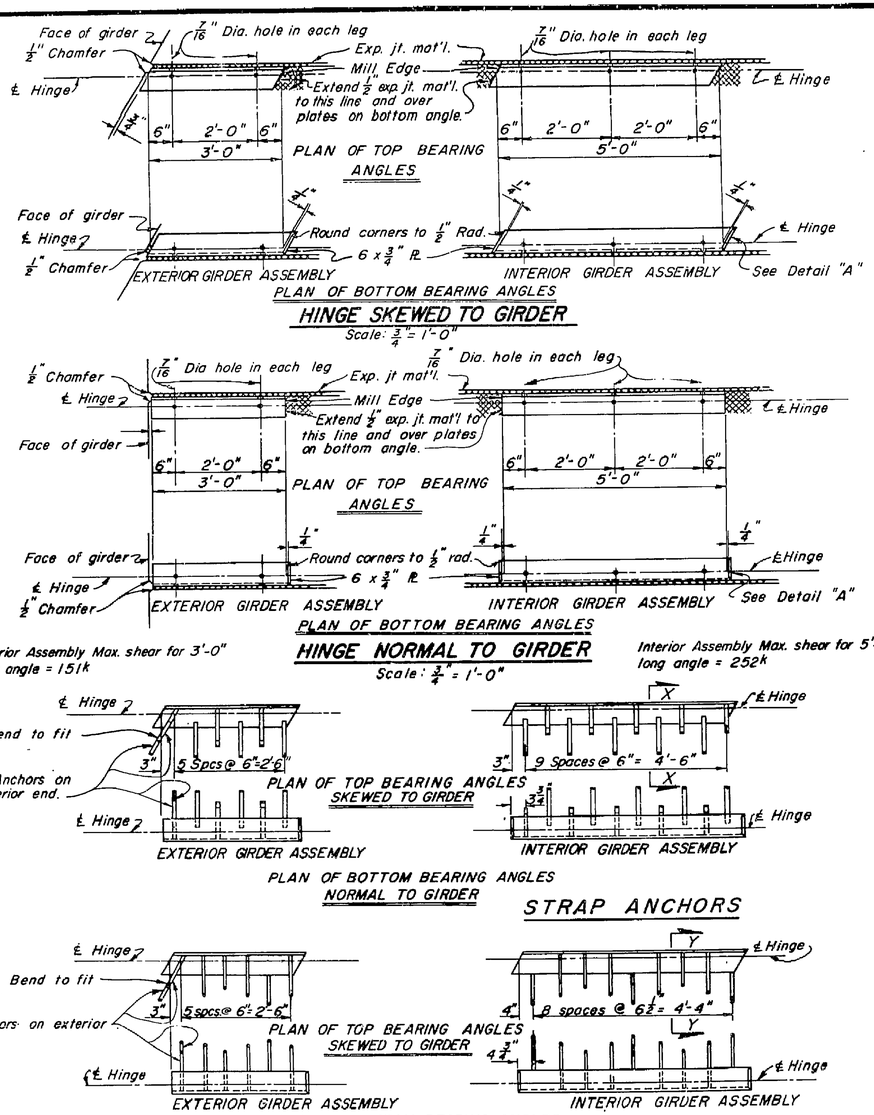
U-0039.1 (1)

| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 117 | 163 |

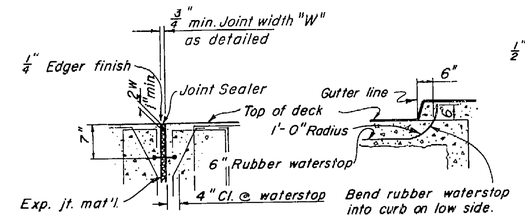
| DIST. | COUNTY | ROUTE | EA CODE | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 1/7 | Sol./LA | 42-4 | 004A | 7-7 | 19-5 |

BRIDGE ENGINEER — CIVIL ENGINEER — STRUCTURE ENGINEER

DATE APPROVED August 29, 1960

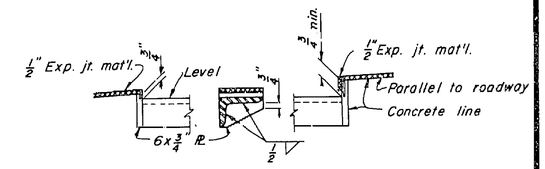



To provide for free movement of the completed hinge, abutting surfaces of steel and concrete are to be separated with expansion material. Caulk and tape the joints between steel angles and all remaining openings to prevent grout or concrete seepage between abutting surfaces of hinge



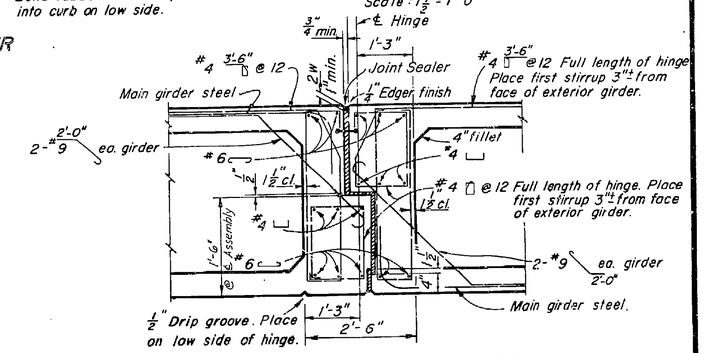

DETAIL OF RUBBER WATERSTOP

No Scale



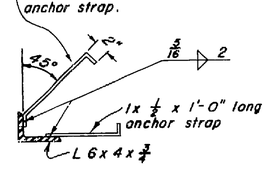

DETAIL "A"

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



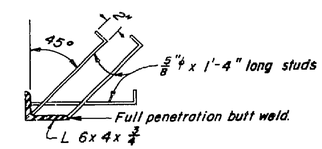

TYPICAL EXPANSION HINGE

Scale: 3/4" = 1'-0"




SECTION X-X

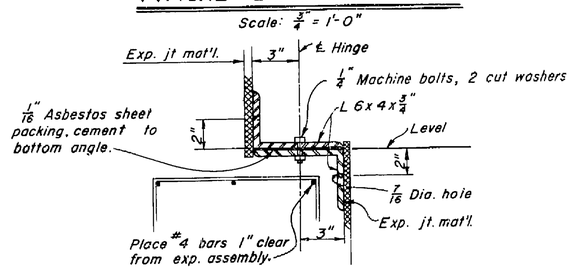
Scale: 1 1/2" = 1'-0"




SECTION Y-Y

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

Galvanize hinge assembly after fabrication.




SECTION THRU EXPANSION ASSEMBLY

Scale: 3" = 1'-0"




AS BUILT PLANS
Contract No. 61-4713C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 8-9-1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: WG DATE: 8-11-65

BRIDGE DEPARTMENT ... DESIGN SECTION ... 8

Project Designer: W. A. Chapman
Chief Designer: Alan H. Dragstedt

| | | | |
|---|---|---|---|
| DESIGN | By G. O. Hall | Checked | A. F. Naylor 2-60 |
| DETAILS | By R. B. | Checked | A. F. Naylor 2-60 |
| QUANTITIES | By | Checked | J. Lindsay 2-60 |
| SPECIFICATIONS | By | Form and Spec. Checked | |

Approval Recommended by: Principal Bridge Engineer — Chief of Design — Chief Bridge Engineer — Tech. Licensed No. 6729

7/59

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
STANDARD SHEETS

HINGE DETAIL (BOX GIRDER)

SCALE As Noted | BRIDGE 28-15 | XS-12-5 FILE | DRAWING C-5978-77

PREL. DRAWING No. P-5978

BX 235

STANDARD DRAWING
Submitted: R. B. Obara
Chief Bridge Engineer
Date Approved: 8-29-60
Chief Engineer
Approved: W. E. Flood
Director of Public Works
Date Approved: 8-29-60
Date Issued: 6-22-61
Date Revised: 7-59

117

141

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' SCALE 1" = 20'
ClibPDF - www.fastio.com

U-0039.1 (1)

| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 118 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | Alp Ord | 75 | Ovr A | 73 | R-R |

As Accepted, Work Dated August 29, 1960

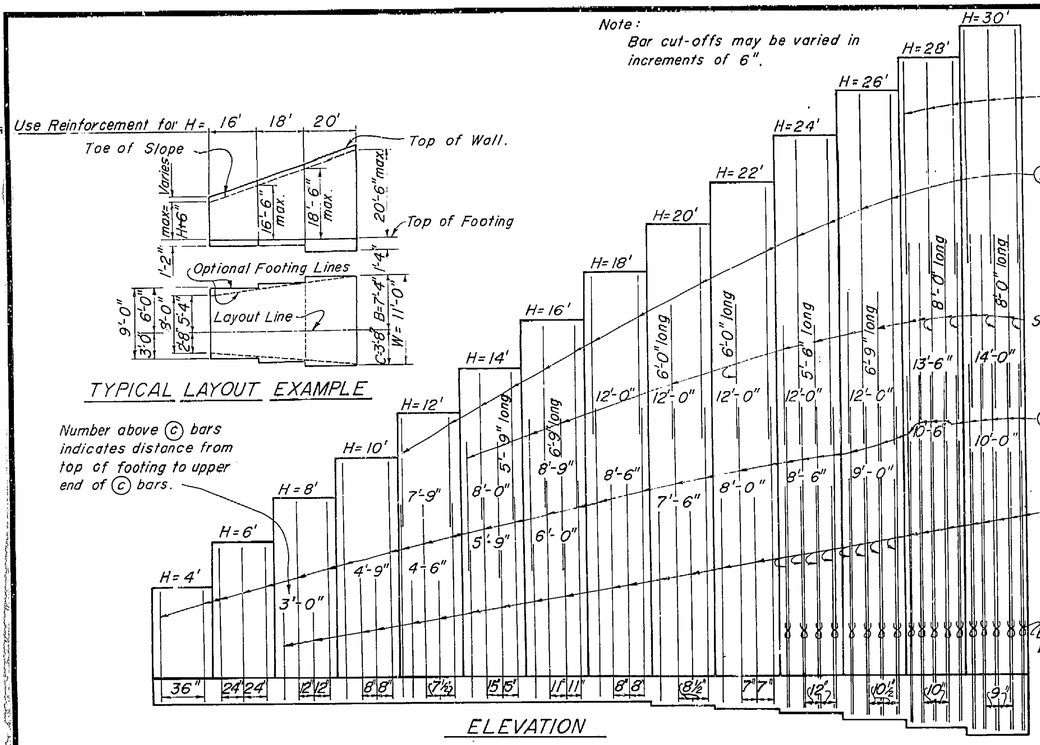
Date Approved: August 8, 1958

State Highway Engineer
Civil Engineer License No. 2084

Revised 9-24-58
Revised Note

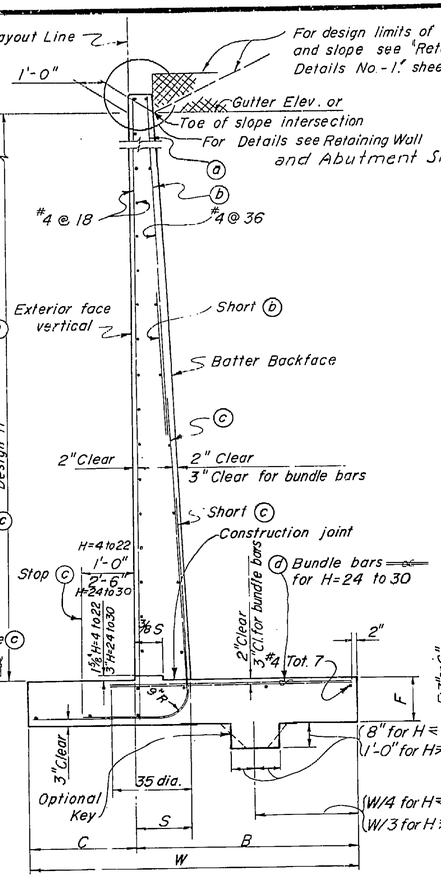
Location
Revised 10-21-58
Section Reinf.
Revised 10-21-58

Note:
Bar cut-offs may be varied in increments of 6".

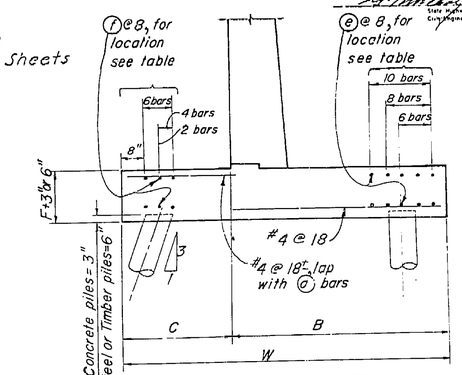



TYPICAL LAYOUT EXAMPLE

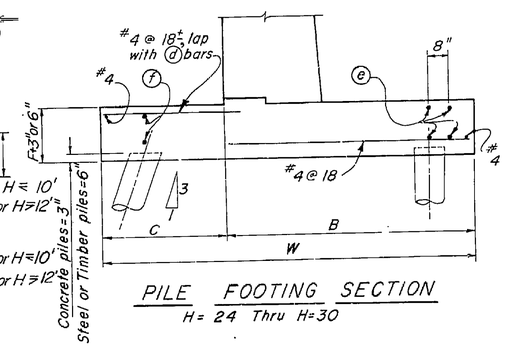
ELEVATION




SPREAD FOOTING SECTION




PILE FOOTING SECTION
H = 4 Thru H = 22




PILE FOOTING SECTION
H = 24 Thru H = 30

Note:
Reinforcement detailed is to be placed in addition to that shown for spread footing. All piles not shown, see Pile Layout on other sheets.

◉ For pile footing Design H = 4' use same footing dimensions as Design H = 6'

Note:
For details not shown and drainage notes see "Retaining Wall Details No. 1."

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

| Design H | | ◉ 4' | 6' | 8' | 10' | 12' | 14' | 16' | 18' | 20' | 22' | 24' | 26' | 28' | 30' |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | | 3'-2" | 4'-2" | 5'-2" | 6'-2" | 7'-2" | 8'-0" | 9'-0" | 10'-0" | 11'-0" | 12'-0" | 13'-3" | 14'-3" | 15'-3" | 16'-3" |
| C | | 1'-0" | 1'-4" | 1'-8" | 2'-0" | 2'-4" | 2'-8" | 3'-0" | 3'-4" | 3'-8" | 4'-0" | 4'-5" | 4'-9" | 5'-1" | 5'-5" |
| B | | 2'-2" | 2'-10" | 3'-6" | 4'-2" | 4'-10" | 5'-4" | 6'-0" | 6'-8" | 7'-4" | 8'-0" | 8'-10" | 9'-6" | 10'-2" | 10'-10" |
| F Spread Ftg. | | 1'-2" | 1'-2" | 1'-2" | 1'-2" | 1'-2" | 1'-2" | 1'-2" | 1'-2" | 1'-4" | 1'-6" | 1'-8" | 1'-11" | 2'-2" | 2'-4" |
| F+3" Conc. Pile | | 1'-5" | 1'-5" | 1'-5" | 1'-5" | 1'-5" | 1'-5" | 1'-5" | 1'-5" | 1'-7" | 1'-9" | 1'-11" | 2'-2" | 2'-5" | 2'-7" |
| F+6" Stl. or Tmr. p. | | 1'-8" | 1'-8" | 1'-8" | 1'-8" | 1'-8" | 1'-8" | 1'-8" | 1'-8" | 1'-10" | 2'-0" | 2'-2" | 2'-5" | 2'-8" | 2'-10" |
| S | | 1'-2" | 1'-3" | 1'-4" | 1'-5" | 1'-6" | 1'-7" | 1'-8" | 1'-9" | 1'-10" | 1'-11" | 2'-3" | 2'-4½" | 2'-9" | 3'-2½" |
| Batter | | ½:12 | ½:12 | ½:12 | ½:12 | ½:12 | ½:12 | ½:12 | ½:12 | ½:12 | ½:12 | ⅝:12 | ⅝:12 | ¾:12 | ⅞:12 |
| (a) bars | | | | | | | | | | | | | | #7@20 | #7@18 |
| (b) bars | | | | | | #5@30 | #5@15 | #5@11 | #6@24 | #7@17 | #7@14 | #8@12 | #8@10½ | #9@10 | #9@9 |
| (c) bars | | #5@36 | #5@24 | #5@12 | #5@8 | #6@7½ | #10@15 | #10@11 | #10@8 | #11@8½ | #11@7 | #11@12∝ | #11@10½∝ | #11@10∝ | #11@9∝ |
| (d) bars | | #5@36 | #5@24 | #4@12 | #4@8 | #5@7½ | #9@15 | #9@11 | #9@8 | #10@8½ | #10@7 | #10@12∝ | #10@10½∝ | #9@10∝ | #9@9∝ |
| Total (e) bars | | 6-#6 | 6-#6 | 6-#6 | 10-#7 | 10-#7 | 10-#7 | 10-#7 | 8-#7 | 8-#7 | 8-#7 | 4-#7 | 4-#7 | 4-#7 | 4-#7 |
| Total (f) bars | | | | | 6-#7 | 6-#7 | 6-#7 | 6-#7 | 4-#7 | 4-#7 | 4-#7 | 2-#7 | 2-#7 | 2-#7 | 2-#7 |
| H Comp. pounds | | 850 | 1440 | 2170 | 3050 | 4070 | 5240 | 6540 | 8000 | 9730 | 11630 | 13730 | 15950 | 18650 | 21145 |
| V Comp. pounds | | 2020 | 3460 | 5230 | 7340 | 9760 | 12180 | 15260 | 18670 | 22690 | 27070 | 31750 | 36870 | 44560 | 50450 |
| e feet | | .50 | .60 | .79 | .94 | 1.07 | 1.28 | 1.41 | 1.54 | 1.72 | 1.90 | 2.08 | 2.25 | 2.52 | 2.70 |
| Toe Pressure P.S.F. | | 1240 | 1570 | 1930 | 2270 | 2640 | 2980 | 3290 | 3590 | 4000 | 4480 | 4640 | 5040 | 5810 | 6190 |
| Spread Footing | Steel lbs/ft. | 14 | 20 | 28 | 47 | 50 | 90 | 123 | 177 | 233 | 309 | 328 | 393 | 425 | 484 |
| | Conc. CF/ft. | 8.9 | 12.6 | 16.3 | 20.2 | 24.3 | 29.5 | 33.8 | 38.5 | 45.0 | 52.1 | 63.1 | 73.0 | 87.6 | 102.7 |
| Conc. pile ftg. | Steel lbs/ft. | 24 | 31 | 39 | 82 | 92 | 126 | 160 | 205 | 262 | 339 | 348 | 413 | 445 | 504 |
| | Conc. CF/ft. | 8.8 | 12.8 | 16.7 | 20.8 | 25.2 | 29.5 | 34.1 | 39.0 | 45.8 | 53.1 | 64.4 | 74.6 | 89.4 | 104.8 |

∝ Denotes a bundle of 2 bars.

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER F. W. Stack
TRACINGS CORRECTED BY: VC DATE: 2-11-65

BRIDGE DEPARTMENT
··· DESIGN SECTION ···
Project Designer: W. H. Chenoweth
Chief Designer: Alan H. Reynolds

| | | | |
|---|---|---|---|
| DESIGN | W. L. Barnsley 4-57 | Checked | J. S. Hallinan & Associates |
| DETAILS | W. L. Barnsley 4-57 | Checked | J. S. Hallinan & Associates |
| QUANTITIES | [illegible] | Checked | [illegible] |
| SPECIFICATIONS | | Place and Date Completed | |

Approved: Recommended by [illegible] Engineer of Design
Civil Engineer No. 6729

8

11/58

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

4A.5.4-1

BROADWAY TUNNEL
STANDARD SHEETS

TYPE I CANTILEVER RETAINING WALL

SCALE none | BRIDGE 28-15 | XS 3-46 FILE | DRAWING C-5978-78

PREL. DRAWING No. P-5978

W-3

BX 235

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

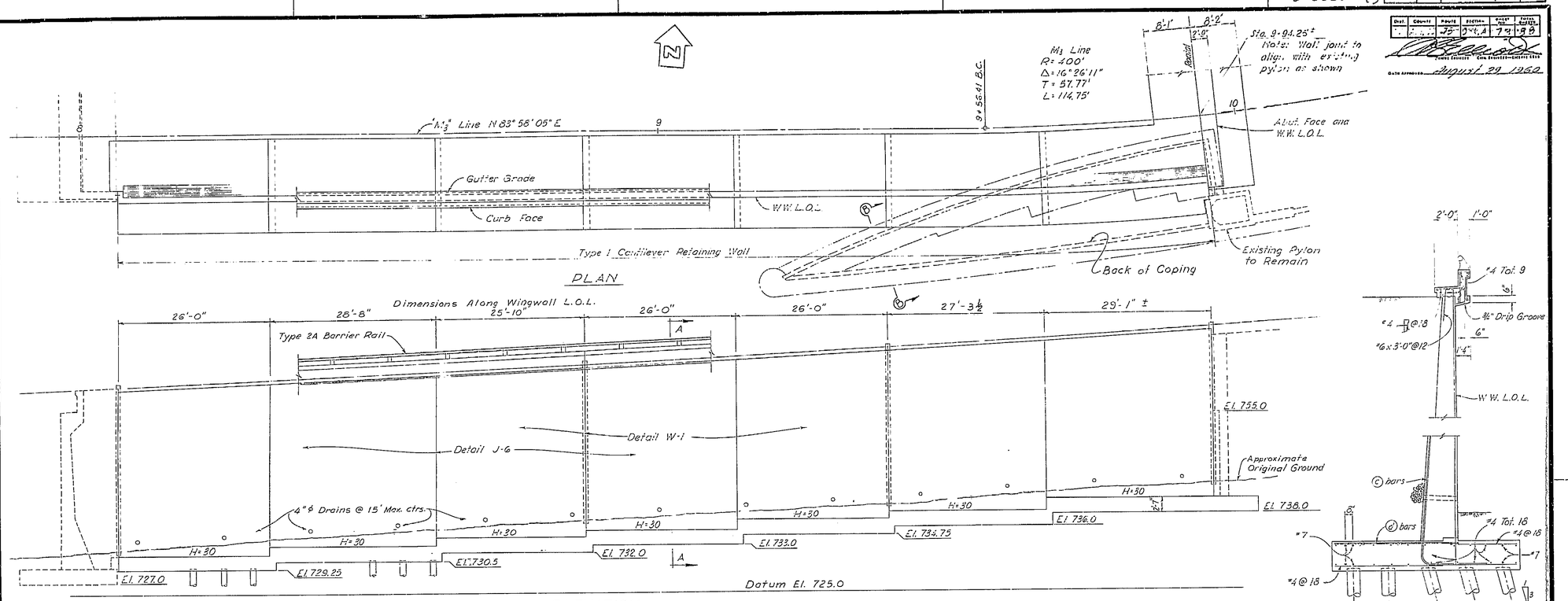
ClibPDF - www.fastio.com

U-0039-1(1)

| FED. ROAD DIV. No. | STATE | F. A. PROJECT No. | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 113 | 183 |

| Dist. | County | Route | Section | Sheet No. | Total Sheets |
|---|---|---|---|---|---|
| 7 | LA | 5 | 9-94.25 | 72 | 98 |

Date approved: August 29, 1960




Note: For details not shown see "Barrier Railing", "Type 1 Cont. Retain. Wall" & "Retain. Wall Details No. 1" sheets.

The Contractor shall verify all dependent dimensions in the field before ordering or fabricating any material.

+ Indicates Vertical Piles

‡ Indicates Batter Piles (1:3)

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 29, 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black

TRACINGS CORRECTED BY: [illegible] DATE: 2-11-65

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

113

BRIDGE DEPARTMENT
... DESIGN SECTION ...
8

Project Designer: [illegible]
Chief Designer: Alan H. Reynolds

| | | | |
|---|---|---|---|
| DESIGN | By [illegible] | Checked | G. E. Paulin 2-60 |
| DETAILS | By [illegible] | Checked | K. Hall 2-60 |
| QUANTITIES | By [illegible] | Checked | [illegible] 2-60 |
| SPECIFICATIONS | By | Plans and Specs. Checked | |

Approval Recommended by [illegible] Engineer of Design — Civil Engr. License No. 9788

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

# BROADWAY TUNNEL

## WEST PORTAL BUILDING-RET. WALL NO. 4

Except as Noted
SCALE ⅛" = 1'-0"
BRIDGE 38-1/5
FILE
DRAWING C-5978-13

BX 235 Disregard prints bearing earlier numbers

PREL. DRAWING No. P-5978 | 28 | 39 | 50 | 4 | 68 | 111 | 137

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

Waterstop Revised 5-'56 KRB

Title - "Detail J-1" added 7-56 KRB

Detail J-5 "exterior girder section. Rev. 1-'57 KRB Rev. 1-'57 RTK

Detail V-1 Rev. 9-'57 RTK Revised Detail D-1 10-57 B.J. Chrysler

Detail V-1 Note Rev. 2-58 RT

Sh. J-5, Soffit Light, Note for Det. J-1 and Rail V-1 9-12-58 R.T.K. & Groove + Detail Rev. 3/2/59 JRS

J-1, & V-1 1-59 RTK

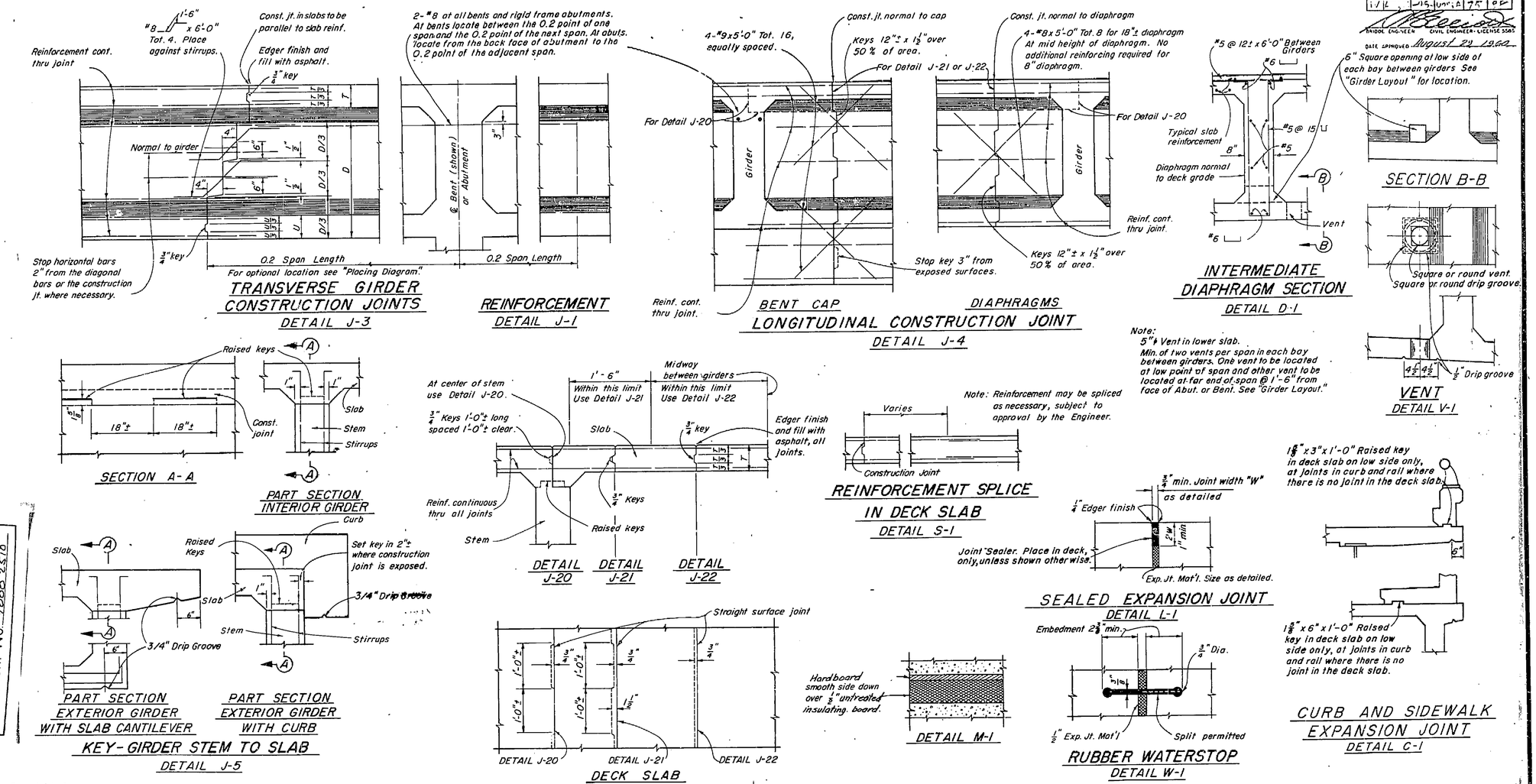
| DIST | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | L.A. | 405 | A | 75 | 85 |

BRIDGE ENGINEER — CIVIL ENGINEER - LICENSE 5580

DATE APPROVED August 22 1962

U-0039.1 (1)

| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 115 | 163 |




Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.

Note:
5" ϕ Vent in lower slab.
Min. of two vents per span in each bay between girders. One vent to be located at low point of span and other vent to be located at far end of span @ 1'-6" from face of Abut. or Bent. See "Girder Layout."

AS BUILT PLANS
Contract No. 61-471313
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1965, AS SUBMITTED BY RESIDENT ENGINEER F.W. Stock
TRACINGS CORRECTED BY: DATE: 6-11-65

BRIDGE DEPARTMENT
DESIGN SECTION 8
PROJECT DESIGNER
CHIEF DESIGNER

| | | | |
|---|---|---|---|
| DESIGN | BY | CHECKED | |
| DETAILS | BY | CHECKED | |
| QUANTITIES | BY | CHECKED | |
| SPECIFICATIONS | BY | PLANS AND SPECS. COMPARED | |

APPROVAL RECOMMENDED BY ENGINEER OF DESIGN — CIVIL ENGINEER LICENSE NO. 6729

7/59

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
STANDARD SHEETS

STANDARD DETAILS NO. 1 (BOX GIRDER)

SCALE - None | BRIDGE 28-15 | XS-16-22 | DRAWING D-5978-75

PREL. DRAWING NO. P 5978

BX 235

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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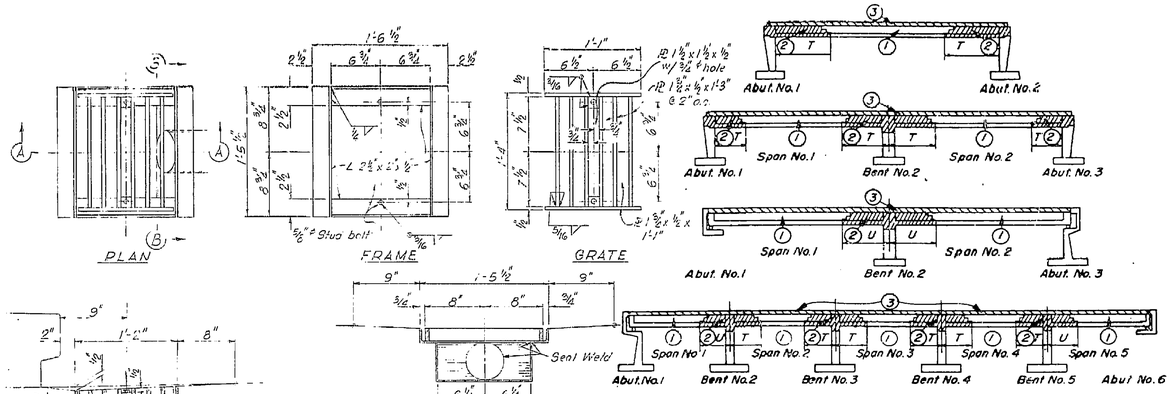
| FED. ROAD DIST. NO. | STATE | | SHEET | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 76 | 143 |

U-0039-1(1)

| Bent | Concrete | Reinforcing Steel | Structural Steel | Sheet Piling | Piling Furnished |
|---|---|---|---|---|---|
| 1/1 | [illegible] | 4615 | 244.4 | 76 | 38.5 |

August 22, 1960




## BOX GIRDER SUPERSTRUCTURE PLACING DIAGRAM

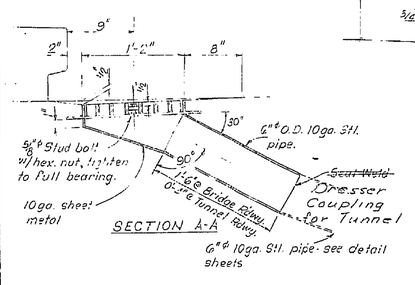
Numbers (1) and (2) indicate sequence of placing bottom slab and girder stem concrete. (2) may be placed simultaneously with (1) when approved by the Engineer, and provided that the (1) sections are placed in adjoining spans.

Top slab concrete (3) shall be placed separately from (1) and (2). (3) may be placed continuously or in parts as approved by the Engineer, however the only joints permitted shall be located within 2'-0" of the girder joints between (1) and (2).

T = ¼ span length

U = ¼ span length

For any deviation from the above the contractor shall submit a diagram to the Engineer.

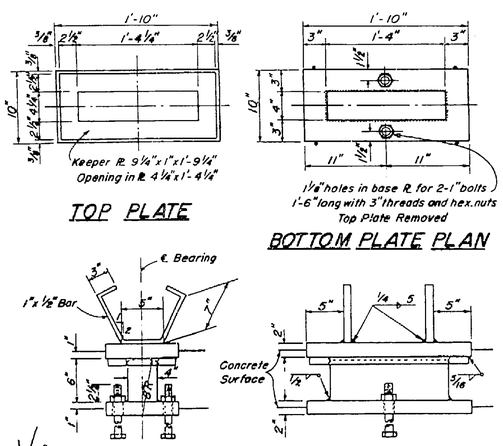



## ROADWAY DRAIN DETAIL

Scale: 1½" = 1'-0"

3 Req'd. @ Bridge Roadway

10 " " Tunnel "

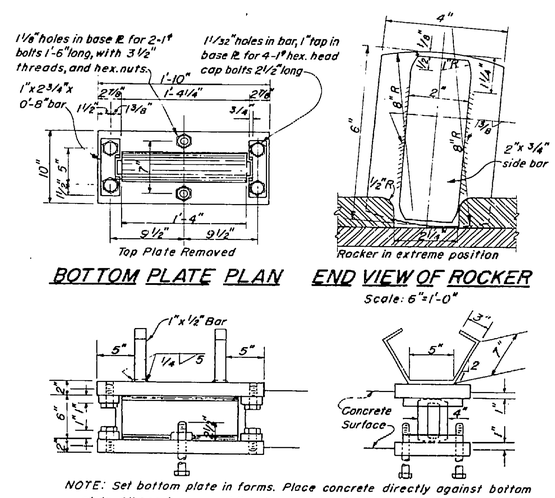



## TOP PLATE

## BOTTOM PLATE PLAN

## 10"x22" FIXED BEARING ASSEMBLY

○ Required  Scale 1½" = 1'-0"




## BOTTOM PLATE PLAN

## END VIEW OF ROCKER

Scale: 6" = 1'-0"

NOTE: Set bottom plate in forms. Place concrete directly against bottom plate. All bearing assemblies to be galvanized after fabrication.

## 10"x22" EXPANSION BEARING ASSEMBLY

6 Required  Scale 1½" = 1'-0"

## GENERAL NOTES

**Specifications:**

**Design:** A.A.S.H.O. dated 1957 with revisions and as supplemented by Bridge Planning and Design Manual, Uniform Building Code, current issue.

**Construction:** Standard Specifications, Division of Highways, dated January 1960 and the Special Provisions.

**Live Loading:** H20-S16-44 and alternative. (Roadway)

**Unit Stresses:**

**Reinforced Concrete:**

$f_s$ = 20,000 p.s.i.

n = 10

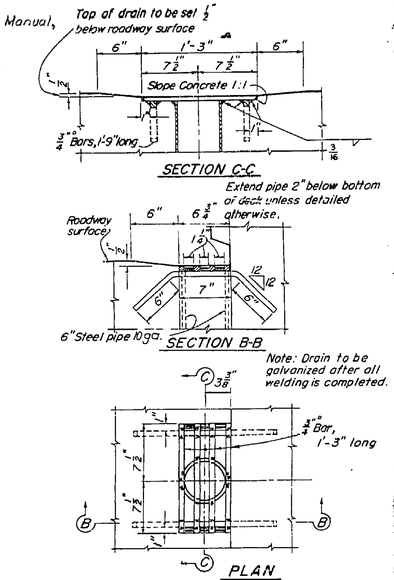
$f_c$ = 1,200 p.s.i.

**Structural Steel:**

$f_s$ = 18,000 p.s.i.

**Footing Pressure:** See Foundation Plans

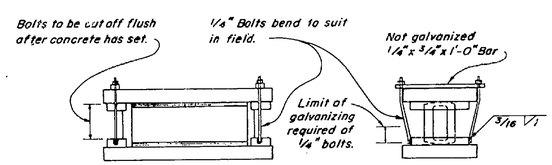
**Pile Loading:** See Foundation Plans




## DRAIN DETAIL TYPE "A"

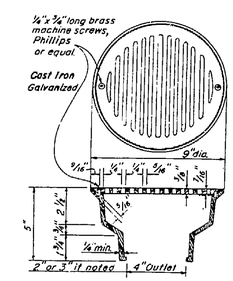
○ Required

Scale 1½" = 1'-0"




## DETAIL OF ERECTION BOLTS

Scale 1½" = 1'-0"




## AREA DRAIN

○ Required

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

| BRIDGE DEPARTMENT ... DESIGN SECTION ... | 8 |
|---|---|
| Project Designer | |
| Chief Designer | |
| DESIGN | |
| DETAILS | |
| QUANTITIES | |
| SPECIFICATIONS | |
| Approved Recommended by | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

9/59

BROADWAY TUNNEL
STANDARD SHEETS

STANDARD DETAILS NO. 2 (BOX GIRDER)

SCALE As Noted | BRIDGE 28-15 | XS-16-40 FILE | DRAWING C-5978-76

PREL. DRAWING No P-5978

BX 235

140

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

| FED. AID PROJ. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 119 | 163 |

U-0039-1 (1)

To Accompany Plans Dated August 28, 1962

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | San Diego | 75 | Oak A | 79 | 84 |

Date Approved August 8, 1958

State Highway Engineer
Civil Engineer License No. 2084

Vertical layout line

Stem as constructed

Offset as follows:

H 4 = 1/4" H 18 = 1 1/2"
H 6 = 3/8" H 20 = 1 3/4"
H 8 = 1/2" H 22 = 2"
H 10 = 5/8" H 24 = 2 1/4"
H 12 = 3/4" H 26 = 2 1/2"
H 14 = 1" H 28 = 2 1/2"
H 16 = 1 1/4" H 30 = 2 1/2"

## WALL OFFSET VALUES

Embedment 2 3/8" min.

3/4" dia.

3/8"

Split permitted

## RUBBER WATERSTOP

Use only when watertight joint is required

Embedment 2 3/8" min.

#4

Rubber waterstop

## PLAN OF WALL WITH DETAIL W-1

1/2" Expansion joint filler

#4

## PLAN OF WALL WITH EXPANSION JOINT ONLY

1/2" Exp jt. if required

#4 @ 12

#4 @ 12 (2'-0")

1'-0" H = 4' to 22'
1'-6" H = 24 to 30'

℄ Layout line

## FOOTING STEP

2:1 Slope unlimited

1 1/2:1 Slope

2' Surcharge

7'-0" max.

6"

1'-0" min.

Place rubber waterstop as shown when required

Filter material continuous behind wall

6"

5' max.

1'-0" min.

Design H

3'-0" min.

4" ϕ drains @ 15' ctrs. max. (9' ctrs. max. for Type 3 & 4 ret. walls), 1' ± above outside ground surface. Slope 1/2" per foot.

Backfill sufficiently to prevent ponding. To be done after removal of wall forms and before backfilling behind wall.

1 cubic foot concrete aggregate in a burlap sack, securely tied.

1'-6" min.

1'-0"

1'-0"

Place concrete in toe against undisturbed material, except as permitted by the Engineer.

H Comp.

V Comp.

e

W/2

## DESIGN AND DRAINAGE

Surcharge limits shown apply to Retaining walls Type 1 and 3.

Top of wall

90' max.

W-1

1' min.

J-6

W-1

4" ϕ Drains

30' max.

15' max.

Top of footing

## ELEVATION

Detail J-6

## SECTION

Joint may be formed with 1/8" masonite and cut back to the root of the chamfer on the exposed face.

1 1/2"

3/4" Chamfer

1/8"

## PLAN DETAIL J-6

2-#4 x 5'-0" @ 18

Reduce spcg. of ⓒ bars either side of hole to accommodate bars taken up by hole.

10'

2-#6 tot. 4

1/2" Exp. Jt. Filler

1/2" Exp. Jt. Filler

2-#8 tot. 4

HOLES 6" to 16" DIAM.

HOLES 18" to 24" DIAM.

REINF. FOR HOLES THRU RETAIN. WALLS & ABUT.

#4 @ 18 x 6'-0"

#5 @ 12

1'-0"

#4 @ 18

1/2" Exp. joint material and rubber waterstop as shown when required.

## PLAN

#8 @ 18 x 8'-0"

#6 @ 12

1'-0"

#4 @ 18

Shift reinf. to clear rubber waterstop.

## PLAN

#4 @ 18 x 6'-0"

#5 @ 18

1'-0"

## PLAN

Std. reinforcement, bend as shown.

1'-0"

#4 @ 18

## PLAN

AS BUILT PLANS
Contract No. 61-471364
Date Completed
Document No. 4000 2510

## NOTES

Design Conditions:

Design H may be exceeded by 6" before going to the next size.

Footing key is required except when found unnecessary by the Engineer.

Special footing design is required where foundation material is incapable of supporting toe pressure loads listed in table.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER F. W. Black
TRACINGS CORRECTED BY: LCG DATE: 8-11-65

Design Data:

fc = 1200 psi f'c = 3000 psi fs = 20,000 psi n = 10 earth = 120 pcf

Equivalent fluid pressure = 36 pcf max. for determination of toe pressure.
27 pcf min. for determination of heel pressure.

Top of wall level

2-#4

L

Layout line

Ground line near side.

D

1'-6" min.

2-#4 @ 18

1 1/2:1

4'-0"

## ELEVATION

## RETURN WALL TYPE 'A'

Use where H = 8' or less

2-#4

L

See Layout

Top of wall level

D

1'-6" min.

1 1/2:1

Offset

1'-0" min.

6'-0" max.

2-#4 @ 18

## ELEVATION

## RETURN WALL TYPE 'B'

Use where H = 10' or more on offset walls

L

10' max.

Layout line

2-#4

D

1'-6" min.

1 1/2:1

2-#4 @ 18

Ground line

## ELEVATION

## RETURN WALL TYPE 'C'

Use where H = 10' or more on straight walls

Top of wall level

Layout line

2-#4 @ 18

## ELEVATION

## RETURN WALL TYPE 'D'

Use where H = 6' or less

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer: Cliff Thompson
Chief Designer: Wm. H. Degenkolb

| | | | |
|---|---|---|---|
| DESIGN | W. L. Barnsley 4-59 | Checked | |
| DETAILS | W. L. Barnsley 4-59 | Checked | |
| QUANTITIES | | Checked | |
| SPECIFICATIONS | | Final and Items Compared | |
| Approval Recommended by | | Chief Bridge Engineer No. 6729 | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
STANDARD SHEETS

RETAINING WALL DETAILS NO. 1

SCALE NONE | BRIDGE 28-15 | XS 3-45 FILE | DRAWING C-5978-79

PREL. DRAWING No. P-5978

W-1

BX 235

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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U-0039-1 (1)

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FINAL SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 2 | CAL. | | | 120 | 183 |

| DATE | FILENAME | PLOTTED | REVISED | SHEET | SHEETS |
|---|---|---|---|---|---|
| 7 | 1-10-60 | 8-29-60 | 8-29-60 | 8 | 8 |

August 8, 1956

State Highway Engineer
Civil Engineer Reg. No. 2084

To Accompany Plans Dated August 29, 1960

REVISIONS
Bar Nos 1-30-58

REVISION
C 'e Detail
-5-58 JJ

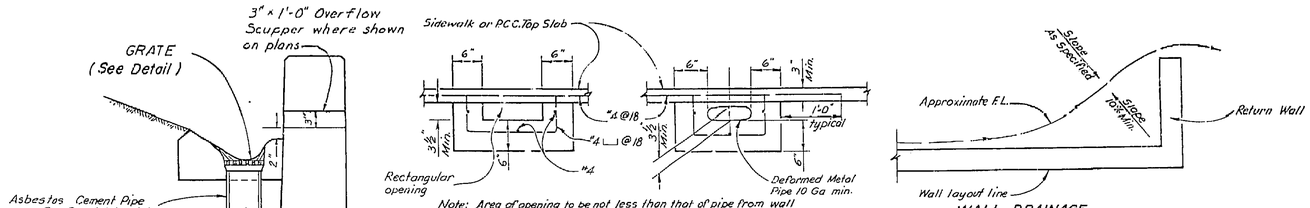
REVISION
Removed 4" Wall Drain Detail
8-58 JJ
Added Scupper Over-flow to Wall Drain Detail
7/59 FHE

STANDARD DRAWING

| | Initial | Date |
|---|---|---|
| Design | W.F.E. | 10-51 |
| Detail | R.A. | 10-51 |
| Check | R.W.R. | 10-51 |
| Quant. | | |
| Check | | |

Supervised:

BRIDGE DEPARTMENT

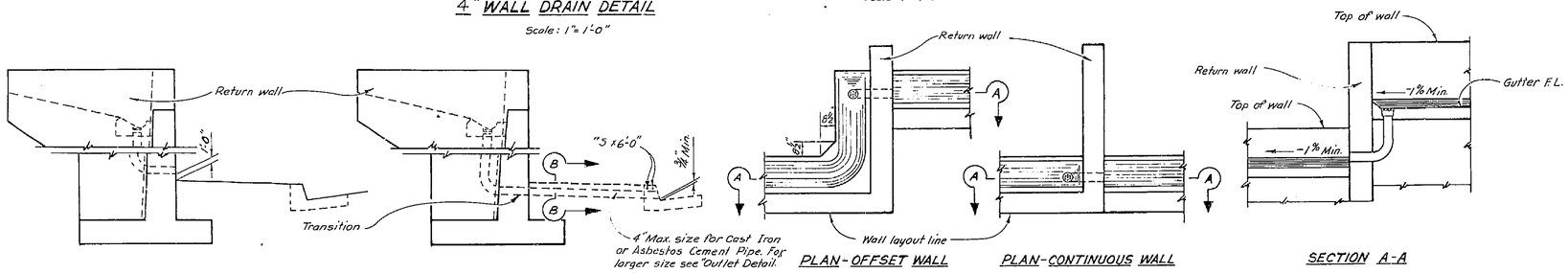



Note: Area of opening to be not less than that of pipe from wall gutter. Make opening transition in wall. Edge opening in curb face to ¾" Min. Radius.

4" WALL DRAIN DETAIL
Scale: 1" = 1'-0"

OUTLET DETAIL - SECTION B-B
Scale: 1" = 1'-0"

WALL DRAINAGE WHERE GUTTER NOT REQUIRED
Scale: ⅜" = 1'-0"




RETAINING WALL, FACE OF WALL OUTLET
Scale: ⅜" = 1'-0"

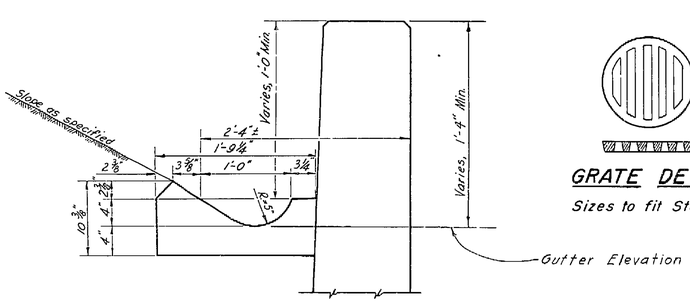
RETAINING WALL, GUTTER OUTLET
Scale: ⅜" = 1'-0"

PLAN - OFFSET WALL

PLAN - CONTINUOUS WALL

DRAIN THROUGH RETURN WALL
Scale: ⅜" = 1'-0"

SECTION A-A




TYPICAL GUTTER DETAIL
Scale: 1½" = 1'-0"

GRATE DETAIL
Sizes to fit Standard Hubs

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 20 1964, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: VG DATE: 2-11-65

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

BRIDGE DEPARTMENT
DESIGN SECTION 8
PROJECT DESIGNER E. M. Chambers
CHIEF DESIGNER Alan H. Degenkolb

| | | | |
|---|---|---|---|
| DESIGN | BY R.D. Wyman 2-60 | CHECKED | |
| DETAILS | BY R.D. Wyman 2-60 | CHECKED | |
| QUANTITIES | BY | CHECKED | |
| SPECIFICATIONS | BY | PLAN AND SPECS. COMPARED | |
| APPROVAL RECOMMENDED BY | ENGINEER OF DESIGN | CIVIL ENGR. LICENSE NO. | 6729 |

7/59 STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS 4A.5.4-6

BROADWAY TUNNEL STANDARD SHEETS

RETAINING WALL DETAILS NO. 2

SCALE: As Shown | BRIDGE 28-15 | FILE X5-3-29 | DRAWING NO. 5978

PREL. DRAWING NO. P. 5978 W-2

BX 235

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DATE SIGNATURE TITLE

120

142

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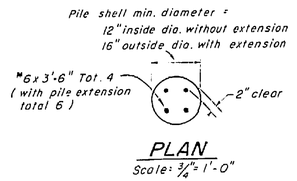
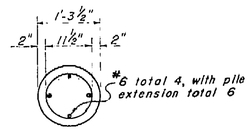
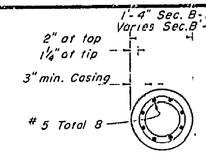
U-0039.1 (1)




PLAN
Scale: 3/4" = 1'-0"

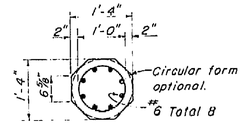



SECTION A-A
Scale: 3/4" = 1'-0"

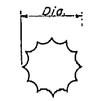



SECTION B-B
Scale: 3/4" = 1'-0"
Section B'-B' similar except as noted.

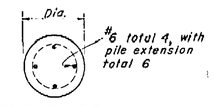
As an alternative to the reinforcement shown, Alternative "W" longitudinal reinforcement may consist of steel strands prestressed to have a total remaining force after losses of not less than 67,000 lbs. At no time shall the stress in the steel exceed 0.75 of its ultimate value.



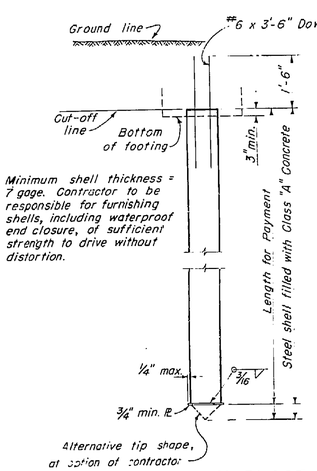

SECTION C-C
Scale: 3/4" = 1'-0"



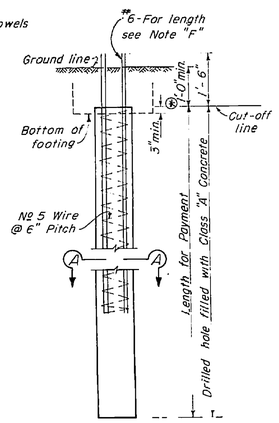

SECTION D-D
Scale: 3/4" = 1'-0"



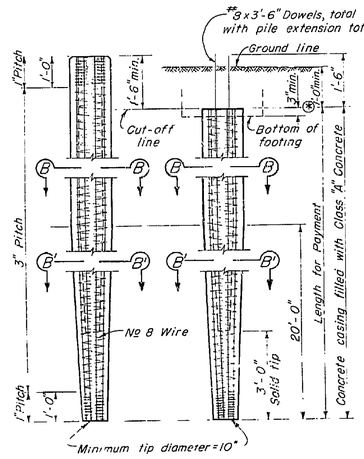

SECTION E-E
Scale: 3/4" = 1'-0"




CAST-IN-PLACE CONCRETE PILE ALTERNATIVE "U"

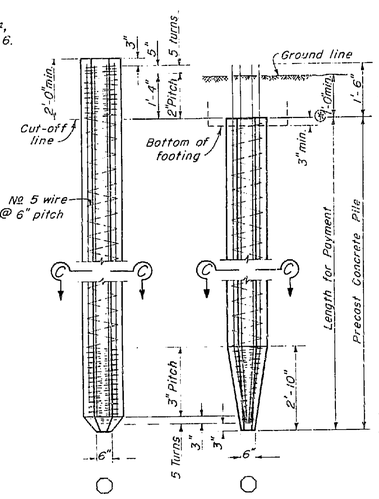



CAST-IN-DRILLED HOLE CONCRETE PILE ALTERNATIVE "V"
Concrete to be placed in dry hole.




Longitudinal reinforcement in the driven portion of Alternative "W" shall be prestressed to 10,000 lbs per bar.

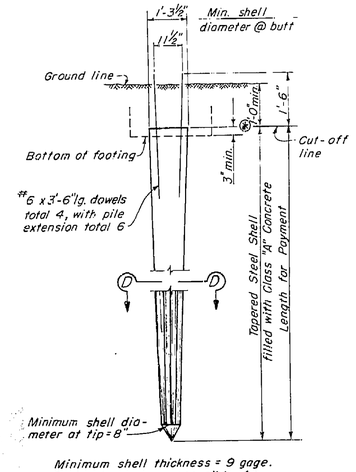
CAST-IN-PLACE CONCRETE PILE ALTERNATIVE "W"



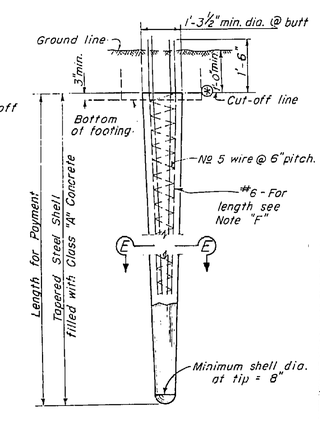

ALTERNATIVE TIP

PRECAST CONCRETE PILE ALTERNATIVE "X"

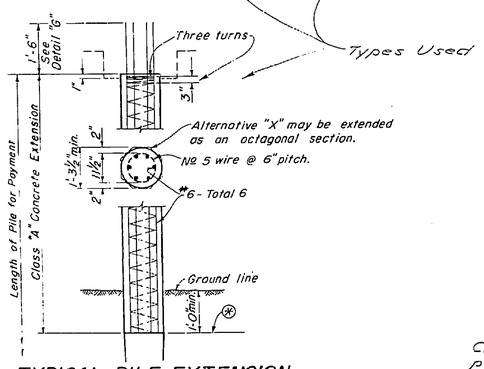
As an alternative to the reinforcement shown this pile may be prestressed by the use of steel strands to provide a total remaining force after losses of not less than 150,000 lbs. At no time shall the stress in the steel exceed 0.75 of its ultimate value. Place 6-#6 x 8' in top of prestressed pile to provide for pile extension or connection to cap or footing.




CAST-IN-PLACE CONCRETE PILE ALTERNATIVE "Y"

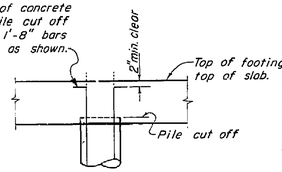



CAST-IN-PLACE CONCRETE PILE ALTERNATIVE "Z"




TYPICAL PILE EXTENSION

When depth of concrete above the pile cut off is less than 1'-8" bars shall be bent as shown.




DETAIL "G"

C.C.O. #54 permitted the use of 10BP57 piles at the west Portal and 10BP42 piles at Retain. Wall #3.

## PILE NOTES

For Alternatives "W" and "X" the piles may be driven full length and cut off without extension or they may be extended as shown at the option of the Contractor.

When Alternatives "U", "V", "Y" & "Z" are extended above ground, the Typical Pile Extension shall be used.

When piles are extended, the bottom of extension shall be located 1'-0" minimum below ground line, unless shown otherwise on the plans.

Note "F": In Alternatives "V" and "Z" the length of #6 bars shall be either a minimum of 1/3 penetration or 12', whichever is the greater. Penetration shall be measured below the lowest of the following controlling elevations:

1. Bottom of footing.
2. Top of final ground surface.
3. Top of original ground surface, when piles are driven through fills.
4. Top of bearing strata, when such strata is shown on the plans.

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: DATE: 3-11-65

BRIDGE DEPARTMENT
DESIGN SECTION 8
Project Designer
Chief Designer

| | | | |
|---|---|---|---|
| DESIGN | By | Checked | |
| DETAILS | By | Checked | |
| QUANTITIES | By | Checked | |
| SPECIFICATIONS | By | Plans and Specs. Compared | |

Approval Recommended by Engineer of Design — Const. Engr. License No.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

9/58

BROADWAY TUNNEL
STANDARD SHEETS

PILE DETAILS

SCALE: Except as noted 1/2" = 1'-0" | BRIDGE 28-15 | 12-10-57 FILE | DRAWING C-5978 | 8 | 1

PREL. DRAWING No. P-5978

BX 235

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

STANDARD DRAWING
Submitted by
Chief Designer
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS
Approval Recommended
Chief Designer
Scale 1/2" = 1'-0"

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
BRIDGE DEPARTMENT

Revised: Note "F" - J. Becker 9-57
Revised: Alternative "U"
T-gage shell
3/8" end Plate - J. Becker 2-58
Alt. "X" Extension J. Rourke 3-58
Revised: Alternative "Z"
Alt. "Y" J. Rourke 9-58
Revised: "Alternative V" (note added) D. Lunder 8-58

Revised: "Pile notes", Pile shell dia. (with extension) and number of bars ... D. Lunder 6-58
Revised: "Prestressing Notes" 8-58 JFJ
Revised 9-57 Added Concrete to be placed in dry hole. JFJ

Revised: "Pile shell min. diameter" (without ext.) and number of bars ... D. Lunder 8-58

Revised: Longitudinal reinf. for Alt. "W"
Added: "Prestressing Note: All prestress reinf. for Alt. "X"
J. Becker 1-58
Revised: Added Prestress Alt. "W"
Revised: Becker 9-58 Note "F"
Added Extension Notes "U", "V" & "Z"
and Equal Line Alt. "U" 2-57

121

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SCALE 1" = 50'
ClibPDF - www.fastio.com

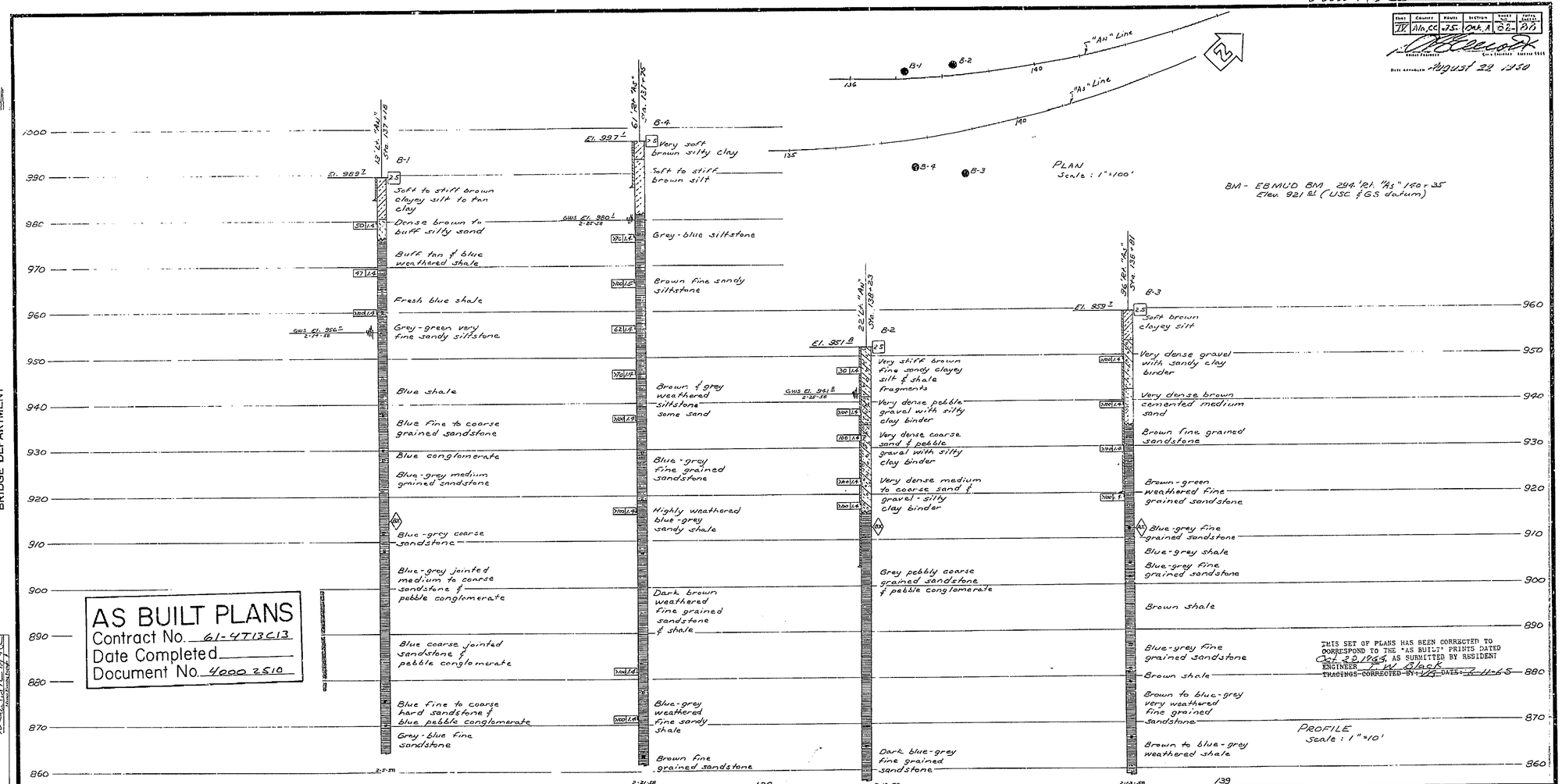
U-0039-1 (1)

| FED. ROAD DIST. NO. | STATE | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CAL. | | 122 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | Ala, SC | 75 | Ook. A | 62 | 113 |

BRIDGE ENGINEER — CIVIL ENGINEER — DATE APPROVED August 22 1950

BRIDGE DEPARTMENT




AS BUILT PLANS
Contract No. 61-4713C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1965 AS SUBMITTED BY RESIDENT ENGINEER
~~TRACINGS CORRECTED BY: DATE:~~

| | | |
|---|---|---|
| FIELD STUDY | H. Nelson & Shrauder | |
| DRAWN | H. McKenney 6-6-58 | |
| CHECKED | H. Nelson 6-6-58 | |

Approval Recommended by: Date Approved: August 22 1950

Pl. 3-18-60 add line changes.

## CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

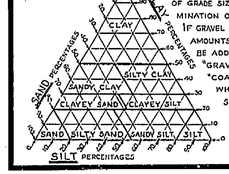


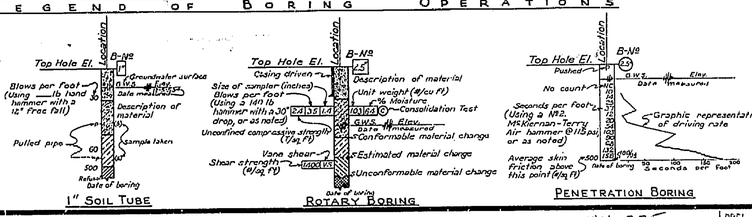

DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND". THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

## LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

## LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2¼" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT




## NOTES

~~The material classification in accordance with the Unified System, based on ASTM Designation D-2487 is shown in parenthesis.~~

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
EAST PORTAL NO. 1

LOG OF TEST BORINGS

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| As Noted | 28-15 | | C-5978-82 |

PRELIM. DRAWING NO. P-5978

PB-5978-6 R-1

BX 235

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

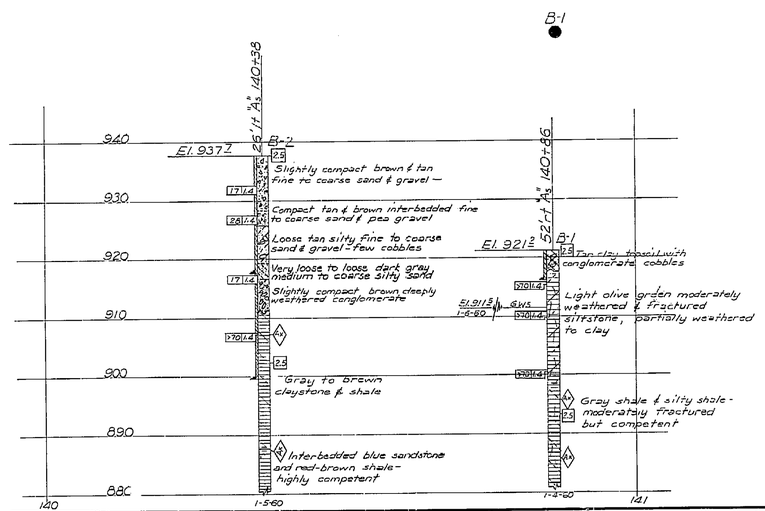
U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CAL. | | | 123 | 163 |

| SHT. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | Ala. | -93- | Oakland | -83- | -A- |

Date approved August 29, 1960

BRIDGE DEPARTMENT




AS BUILT PLANS
Contract No. 61-471363
Date Completed
Document No. 4000 2510

BM

CHC Bronze disc set in PCC apron on Quarry Road near SE cor. of Blower Bldg. atop E Portal Broadway Low Level Tunnel Elev. 920.514

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29, 1965, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: W.A. DATE: 6-11-65

| FIELD STUDY | h. Pell 1-60 |
|---|---|
| DRAWN | h. Pell 2-60 |
| CHECKED | h. Hearney 2-60 |

Approved Recommended by: Robert W. Rossetti, Materials & Research Engineer
Alameda Co. Highway Director

## Classification of Material Based on Standard Grade Size Limits

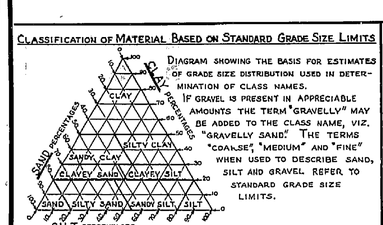


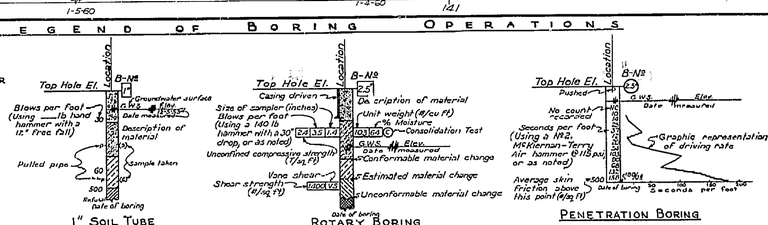

DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL. REFER TO STANDARD GRADE SIZE LIMITS.

## Legend of Earth Materials

- Gravel
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

## Legend of Boring Operations

- Plan of any boring
- Penetrometer
- 2¼" Cone Penetrometer
- Sampler boring (dry)
- Rotary boring (wet)
- Auger boring (dry)
- Jet boring
- Core boring
- Test pit




## NOTES

[redacted]

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
EAST PORTAL NO. 2

# LOG OF TEST BORINGS

| SCALE 1" = 10' | BRIDGE 28-15 | FILE E28 | DRAWING C-5978-B3 |
|---|---|---|---|

123

BX 235

ELL. DRAWING 5978 4 of 4

AR-5978-13

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
SCALE 1" = 40'
ClibPDF - www.fastio.com

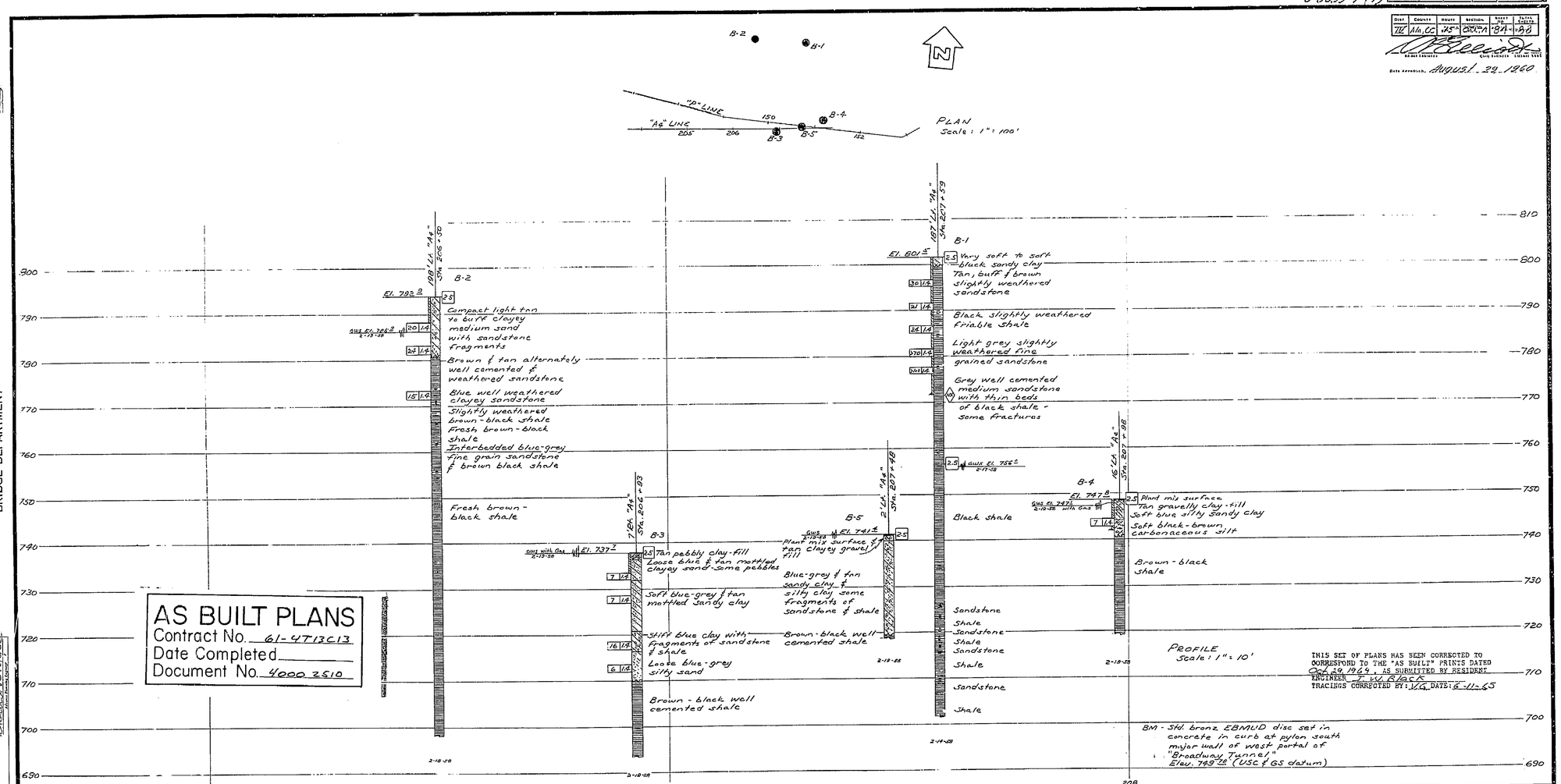
| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CAL. | | | 124 | 183 |

U-0039-1 (1)

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | Mrn. Co. | 125 | 38.0-A | 124 | 183 |

Date approved: August 29, 1960

BRIDGE DEPARTMENT




## CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

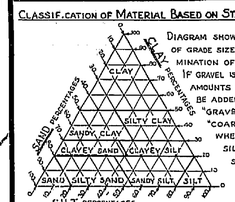



DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES.

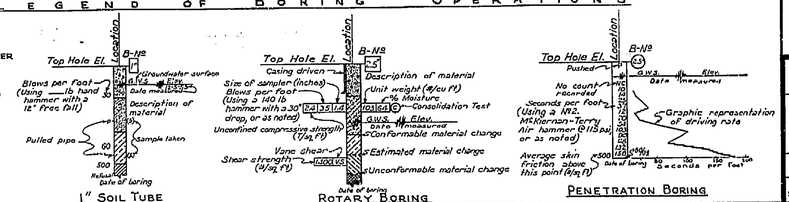
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND". THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

## LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

## LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2¼" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT




## NOTES

~~The unclassified excavation is described in Section 2, Article (c) of the Standard Specifications and is the type of material to be expected in the excavation.~~

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
WEST PORTAL

LOG OF TEST BORINGS

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| As Noted | 28-15 | E-23 | C-5978-B4 |

124

BX 235

PUBLIC DRAWING NO. P-5978 PE-5978-7 21 148

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

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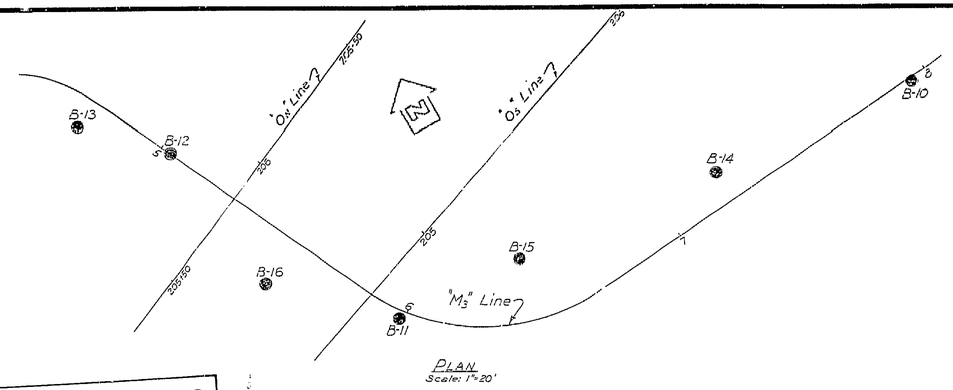
U-0039-1(1)

| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CAL. | | | 125 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| | | | | | |

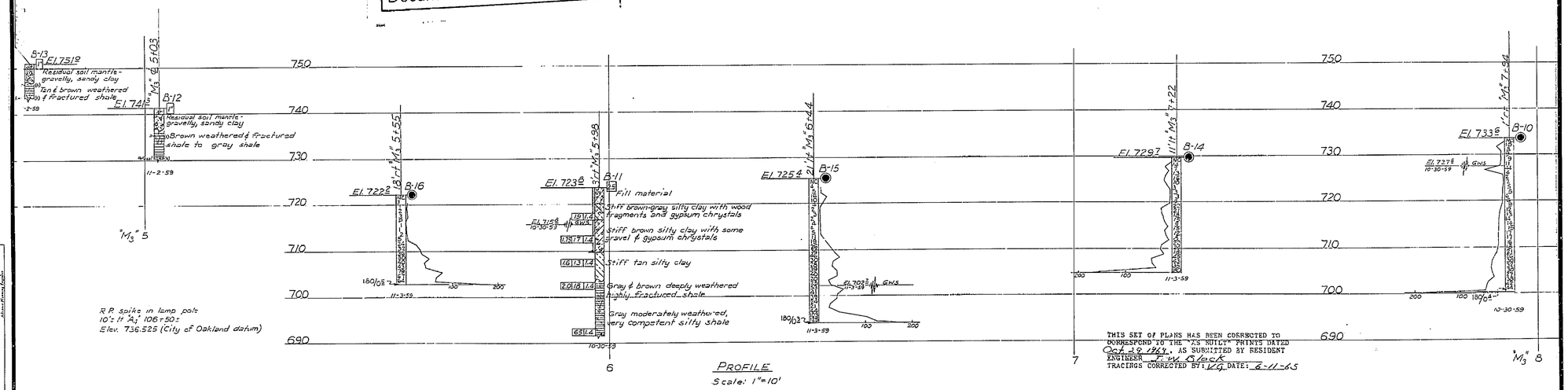
Date approved August 22, 1960

BRIDGE DEPARTMENT




PLAN
Scale: 1"=20'

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510




PROFILE
Scale: 1"=10'

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 30, 1964, AS SUBMITTED BY RESIDENT ENGINEER F. W. Black
TRACINGS CORRECTED BY: VG DATE: 6-11-65

| | | | |
|---|---|---|---|
| FIELD STUDY | H. Pell | 10-11-59 | |
| DRAWN | J. Darr | 1-60 | |
| CHECKED | H. Rainey | 2-60 | |

Approval Recommended by: Robert L. Donaldson, Materials & Research Engineer
Approved: Frederic J. Hart, Bridge Engineer

R1 3-29-60

## CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

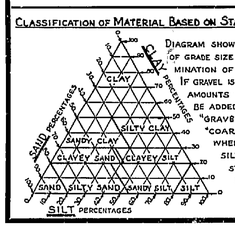



DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES.

IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND". THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

## LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
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- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

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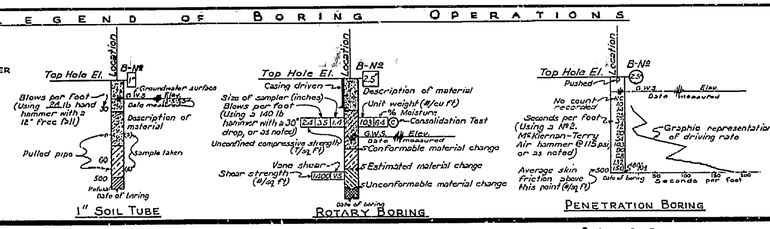
- PLAN OF ANY BORING
- PENETROMETER
- 2¼" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT




## NOTES

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
WEST PORTAL SERVICE ROAD BRIDGE #1

# LOG OF TEST BORINGS

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| As shown | 28-15 | | C-5978-B5 |

BX 235

PRELI DRAWING NO. P-5978 R1 149

125

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

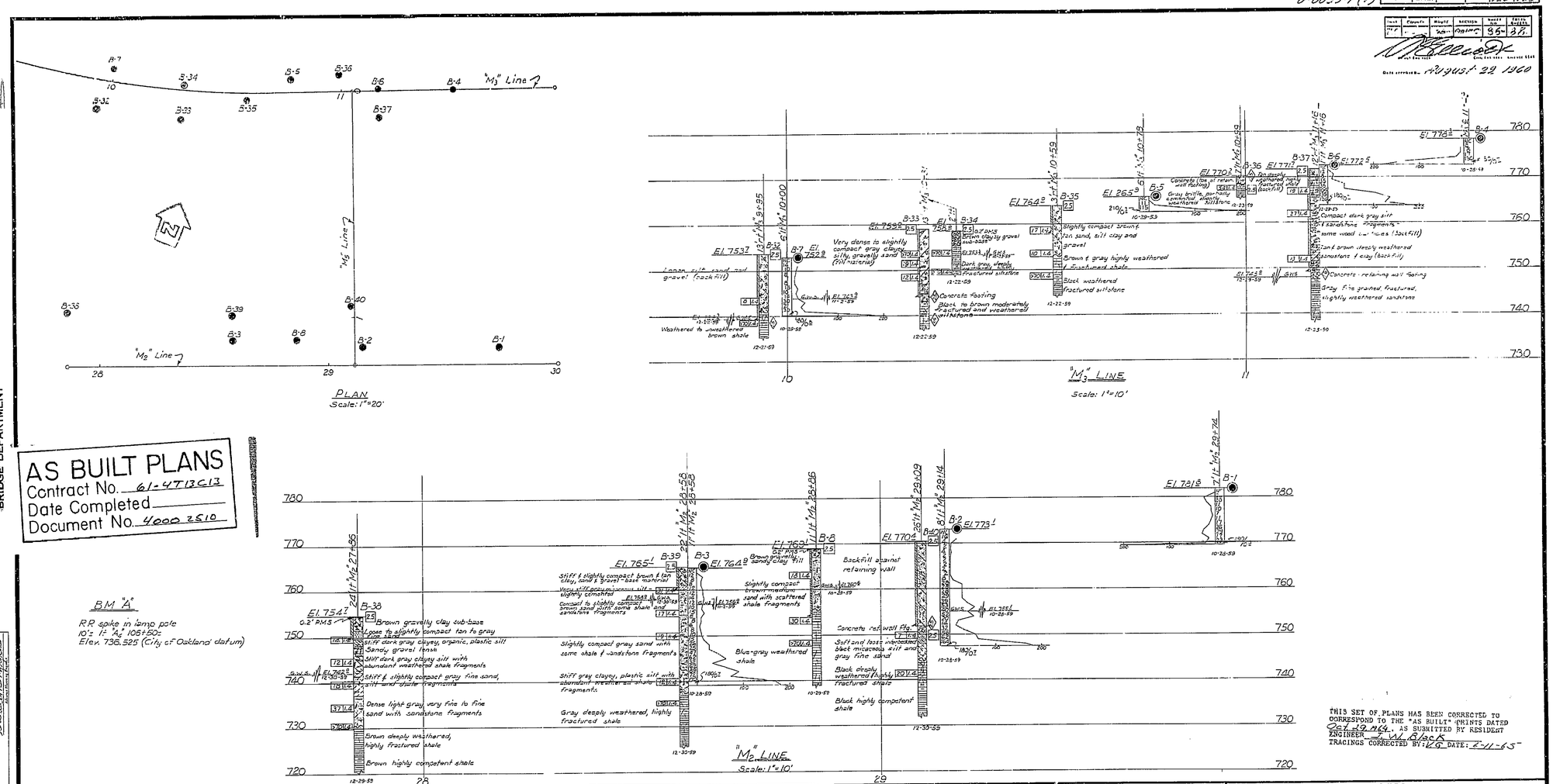
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

U-0039-1(1)

| FED. ROAD DIST. NO. | STATE | ROUTE NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CAL. | | | 126 | 162 |

| FILE | CHECKED | RIGHT | LEFTOVER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 77 | | Sch | Engineer | 95 | 32 |

DATE APPROVED August 22 1960




BRIDGE DEPARTMENT

AS BUILT PLANS
Contract No. 61-471313
Date Completed
Document No. 4000 2510

BM "A"
R.R. spike in lamp pole
10'± E. of $M_2$ 1051+50±
Elev. 736.525 (City of Oakland datum)

| | | |
|---|---|---|
| FIELD STUDY | H. Dorr | 12-22-59 |
| DRAWN | H. Dorr | 1-60 |
| CHECKED | H. Hearty | 2-60 |

Approval Recommended by: Chief Bridge Engineer

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 29, 1965 AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: LG DATE: 2-11-65

## CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

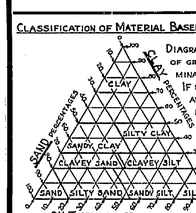



DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

## LEGEND OF EARTH MATERIALS

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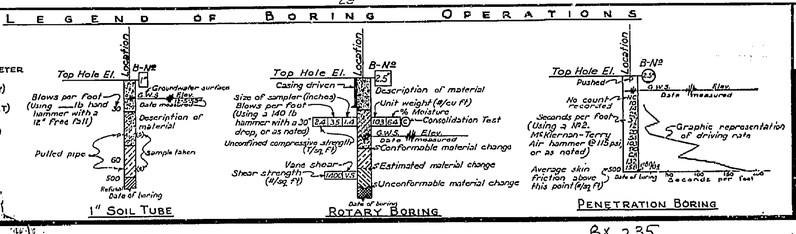
- Sand
- Silt
- Clay
- Sandy Clay or Clayey Sand
- Sandy Silt or Silty Sand
- Silty Clay or Clayey Silt
- Peat and/or Organic Matter
- Fill Material
- Igneous Rock
- Sedimentary Rock
- Metamorphic Rock

## LEGEND OF BORING OPERATIONS

- Plan of any boring
- Penetrometer
- 2½" Cone Penetrometer
- Sampler boring (dry)
- Rotary boring (wet)
- Auger boring (dry)
- Jet boring
- Core boring
- Test pit




## NOTES

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STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
WEST PORTAL SERVICE ROAD BRIDGE #2

# LOG OF TEST BORINGS

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| As shown | 28-15 | E-28 | C-5978-d6 |

126

BX 235

F-5978 50

PR-5978-9 150

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ____ SIGNATURE ____ TITLE ____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

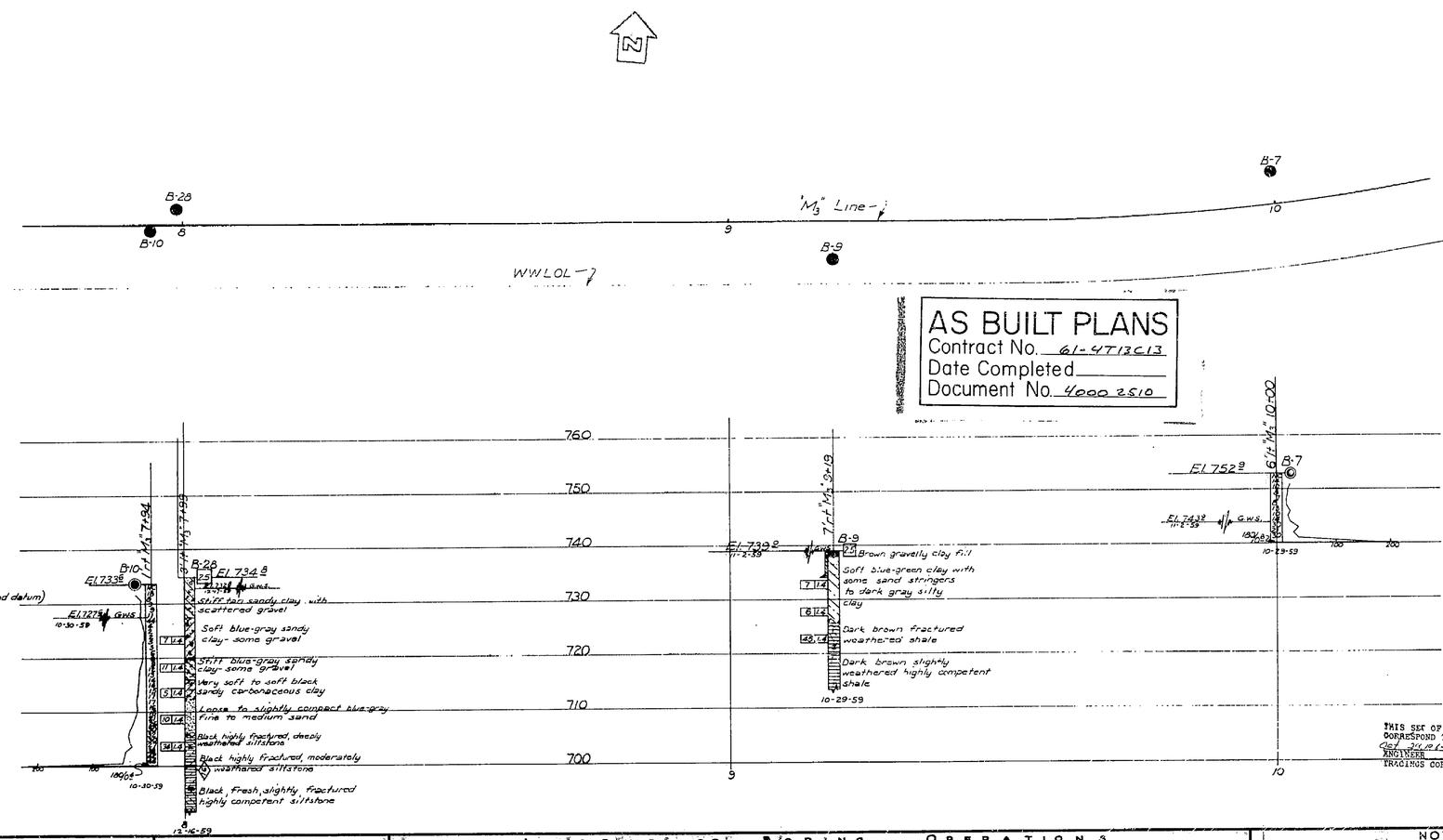
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CAL. | | | 128 | 163 |

U-0039-1 (1)

| YEAR | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 19 | Alm Co | 75 | Oak. A | 83 | 88 |

Date approved August 29, 1960

BRIDGE DEPARTMENT




AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 8/31/14, AS SUBMITTED BY RESIDENT ENGINEER F. W. Black
TRACINGS CORRECTED BY: DB DATE: 8-11-15

| | | |
|---|---|---|
| FIELD STUDY | H. Bell | 10-59 |
| DRAWN | H. Garr | 1-60 |
| CHECKED | H. Hewitt | 2-60 |

Approved Recommended by: Oakland Bridge Engineer

### CLASSIFICATION OF MATERIAL: BASED ON STANDARD GRADE SIZE LIMITS

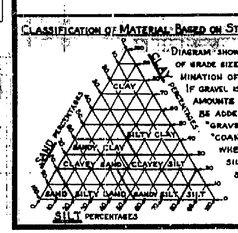


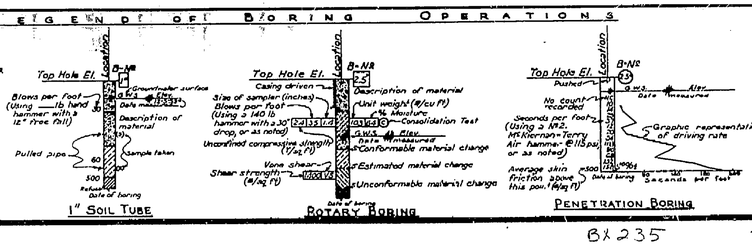

DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES. IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE," "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

### LEGEND OF EARTH MATERIALS

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC MATTER
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

### LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PENETROMETER
- 2¼" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT




### NOTES

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STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
WEST PORTAL - RETAINING WALL No 4

# LOG OF TEST BORINGS

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| 1" = 10' | 28-15 | E-28 | C-5978-88 |

8X235

DRAWING 5978 50#

~~PR 5978-12~~ 152

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE_____ SIGNATURE_____ TITLE_____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

| FED. AID PROJ. NO. | STATE | FACY. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CAL. | | | 127 | 163 |

V-0039-1 (1)

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 07 | | 4/5 | 25F A | 87 | 211 |

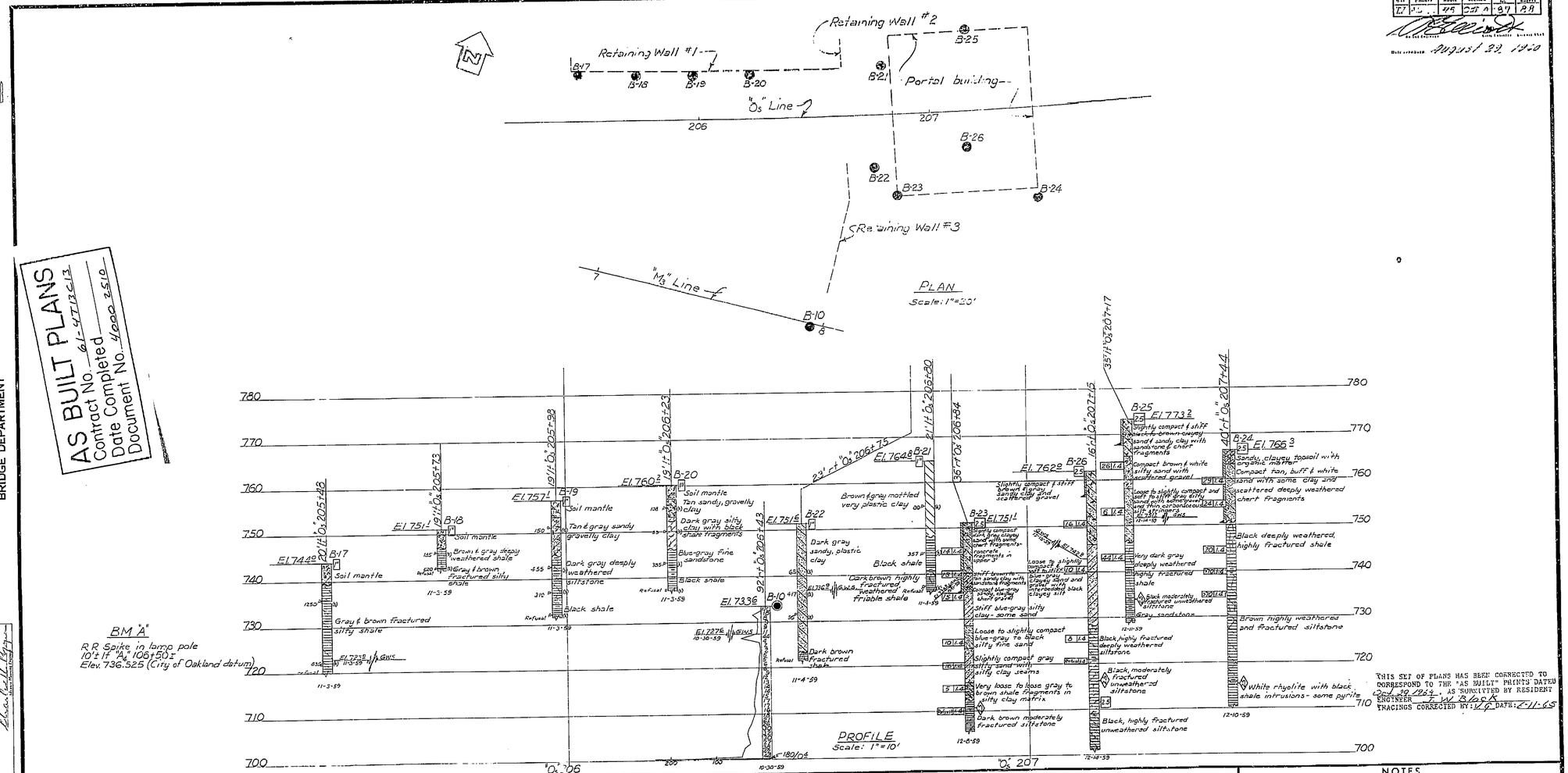
Date approved August 22, 1960

AS BUILT PLANS
Contract No. 61-471313
Date Completed
Document No. 4000 2510

BRIDGE DEPARTMENT

| | | | |
|---|---|---|---|
| FIELD STUDY | | | |
| DRAWN | | | |
| CHECKED | | | |

Approved Recommended by




THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 2nd 29 1964, AS SUBMITTED BY RESIDENT ENGINEER T. W. BACK
TRACINGS CORRECTED BY: LCP DATE: 2-11-65

## CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

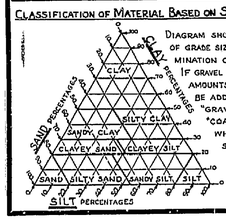



DIAGRAM SHOWING THE BASIS FOR ESTIMATES OF GRADE SIZE DISTRIBUTION USED IN DETERMINATION OF CLASS NAMES.
IF GRAVEL IS PRESENT IN APPRECIABLE AMOUNTS THE TERM "GRAVELLY" MAY BE ADDED TO THE CLASS NAME, VIZ. "GRAVELLY SAND." THE TERMS "COARSE", "MEDIUM" AND "FINE" WHEN USED TO DESCRIBE SAND, SILT AND GRAVEL REFER TO STANDARD GRADE SIZE LIMITS.

## LEGEND OF EARTH MATERIALS

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- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
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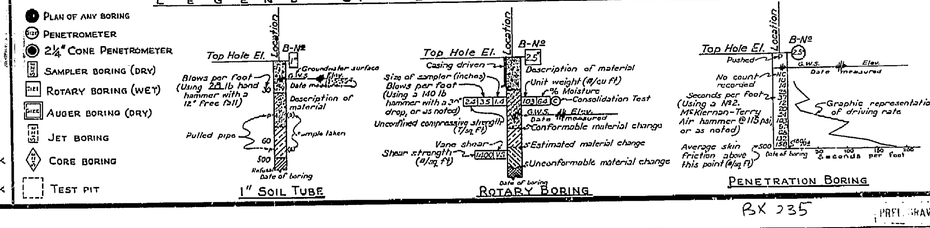
- FILL MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

## LEGEND OF BORING OPERATIONS

- PLAN OF ANY BORING
- PEN — PENETROMETER
- 2¼" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT




## NOTES

Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
WEST PORTAL BLDG. & RETAINING WALLS 1, 2 & 3

# LOG OF TEST BORINGS

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| As shown | 28-15 | | C-5979-87 |

BX 235 PREV. DRAWN C-5978 PR-5978-11 R1

127

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

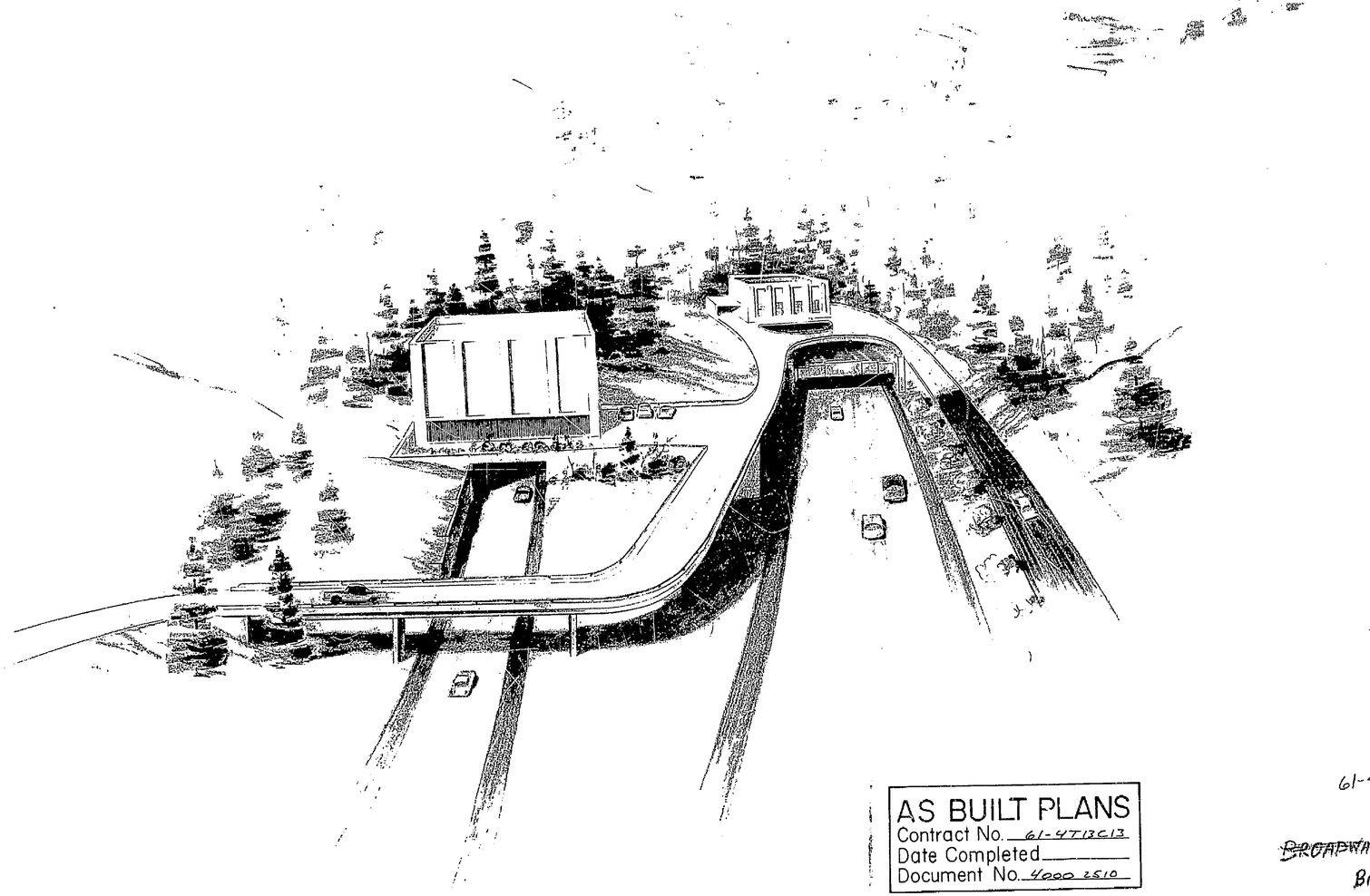
DATE _____ SIGNATURE _____ TITLE _____

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

IV-ALA, CC-PM 0.0
Route 24

# CALDECOTT TUNNEL
## (FORMERLY BROADWAY TUNNEL)
## IV - ALA, CC - 75 - OAK, A ---- BRIDGE NO. 28-15



AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

61-4T13C13

~~BROADWAY~~ TUNNEL
BR # 28-15L

BX 235

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

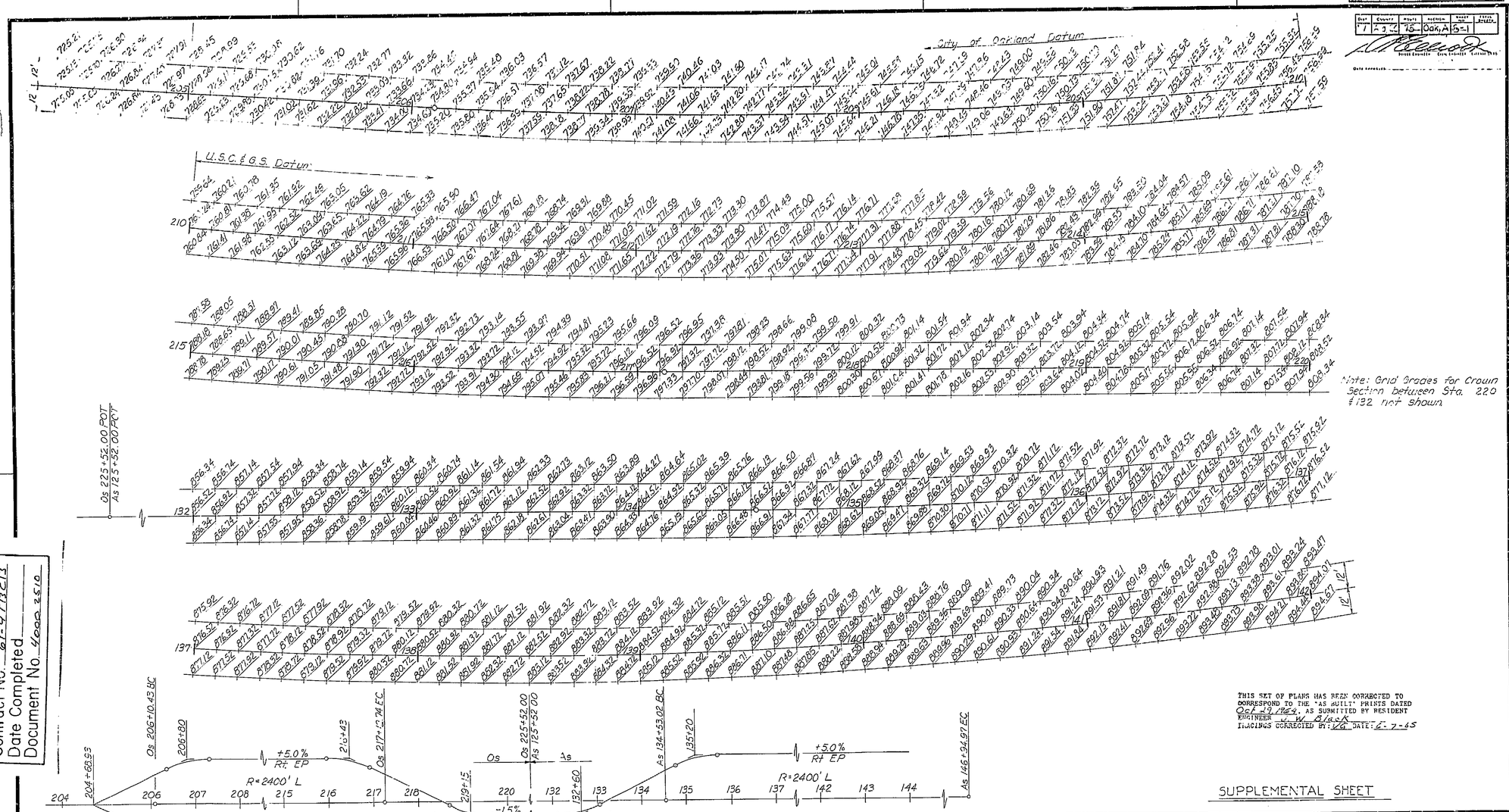
ClibPDF - www.fastio.com

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF | | 15 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | ALA | 15 | OAK, A | S-1 | |

State Engineer  Civil Engineer  Structural Engineer

Date Approved




Os – As Lines
SUPERELEVATION DIAGRAM
Scale 1"=100'

Note: Grid Grades for Crown Section between Sta. 220 & 132 not shown

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 19, 1962, AS SUBMITTED BY RESIDENT ENGINEER K. W. Black
TRACINGS CORRECTED BY: VG DATE: 6-7-65

SUPPLEMENTAL SHEET

AS BUILT PLANS
Contract No. 61-473613
Date Completed
Document No. 4000 2510

| BRIDGE DEPARTMENT | | |
|---|---|---|
| *** DESIGN SECTION *** | | 8 |
| Project Designer: L. W. Chaney | | |
| Chief Designer: Chas. H. Ridgeway | | |
| DESIGN | By: L. W. Chaney 10-60 | Checked: R. F. [illegible] 10-60 |
| DETAILS | By: R. E. [illegible] 10-60 | Checked: R. F. [illegible] 10-60 |
| QUANTITIES | By: | Checked: |
| SPECIFICATIONS | By: | Plans and Specs. Checked: |
| Approval Recommended by: J. L. Beal, Director of Public Works | | Civil Engr. License No. 7716 Expires 12-31-61 |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

GRID GRADES

Except as noted SCALE 1"=20' | BRIDGE 28-15 L | FILE | DRAWING SC-5978-1

R X 235 Disregard prints bearing earlier numbers → PREL. DRAWING NO. P-5978 8/7/818

64

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-1-72 SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' SCALE 1"=20' SCALE 1"=10' or 1"=100' SCALE 1"=40'

ClibPDF - www.fastio.com

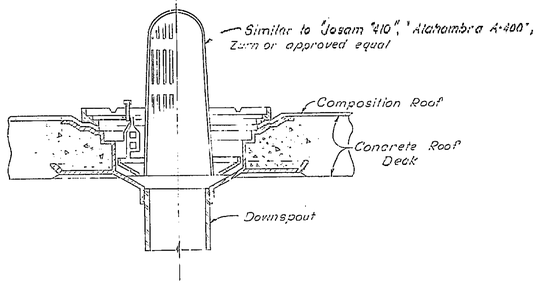
| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 72 | 163 |

U-0039-1(1)

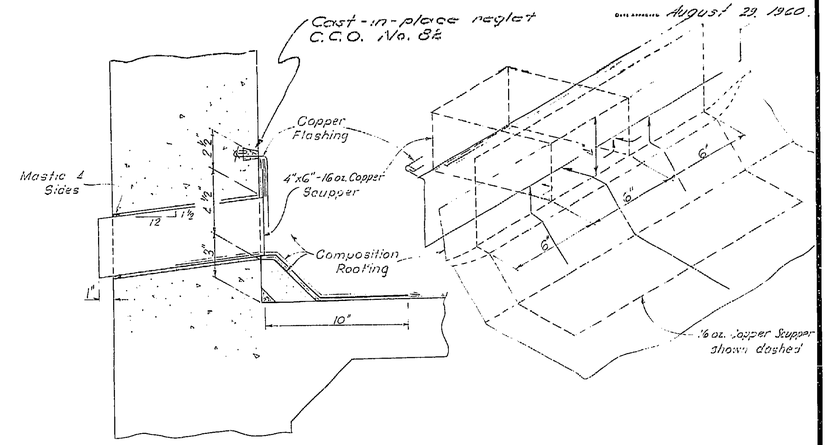
| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | LA | 26 | 15.4 | Oct-A | 3/4 | 85 |

BRIDGE ENGINEER — CIVIL ENGINEER — LICENSE NO.

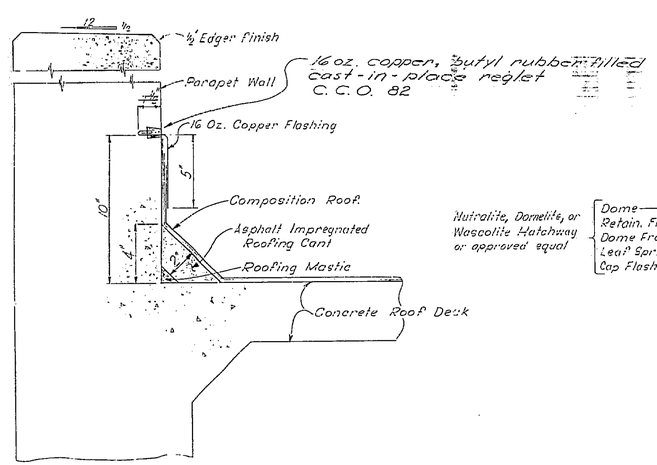
DATE APPROVED August 29, 1960.



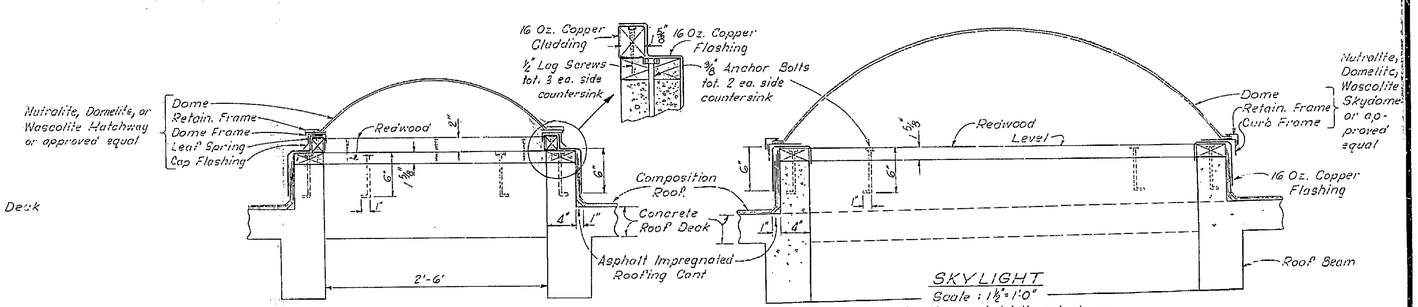

ROOF DRAIN DETAIL
Scale: 3" = 1'-0"
For location see "Plan at Roof" and "East Portal Details" sheets.
5 Reqd.




SCUPPER FOR PARAPET WALL
Scale: 3" = 1'-0"
5 Reqd.




TYPICAL ROOF FLASHING DETAILS
Scale: 3" = 1'-0"




HATCHWAY TO ROOF
Scale: 1½" = 1'-0"
For location and details not shown see "Plan At Roof" sheet
2 Reqd.

SKYLIGHT
Scale: 1½" = 1'-0"
For location and details not shown see "Plan At Roof" sheet
4 Reqd.

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct. 29, 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Sloan
TRACINGS CORRECTED BY: LG DATE: 6-9-65

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

BRIDGE DEPARTMENT
··· DESIGN SECTION ··· 8
Project Designer: W. H. Chapman
Chief Designer: Chas. H. Degenkolb

| | | | |
|---|---|---|---|
| DESIGN | by W. H. Chapman 2-60 | checked R. S. Johnson 2-60 | |
| DETAILS | by W. H. Chapman 2-60 | checked R. S. Johnson 2-60 | |
| QUANTITIES | by J. W. Dickson 2-60 | checked H. R. Sundquist 2-60 | |
| SPECIFICATIONS | by | Plans and Reports Engineer | |
| Approval Recommended by | Asst. Engineer of Design | Chief Engineer No. 6729 | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

ROOF DETAILS

SCALE As Noted | BRIDGE 28-15L | FILE | DRAWING C-5978-32

PREL. DRAWING NO. P-5978 | 95 | 66 | 23 | 1-84 | 5-60

72

BX 235

95

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 1-11-71 SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50' 0 100 200 300 400 500 600 700
SCALE 1" = 20' 0 100 200 300
SCALE 1" = 40' 0 200 400 600

ClibPDF - www.fastio.com

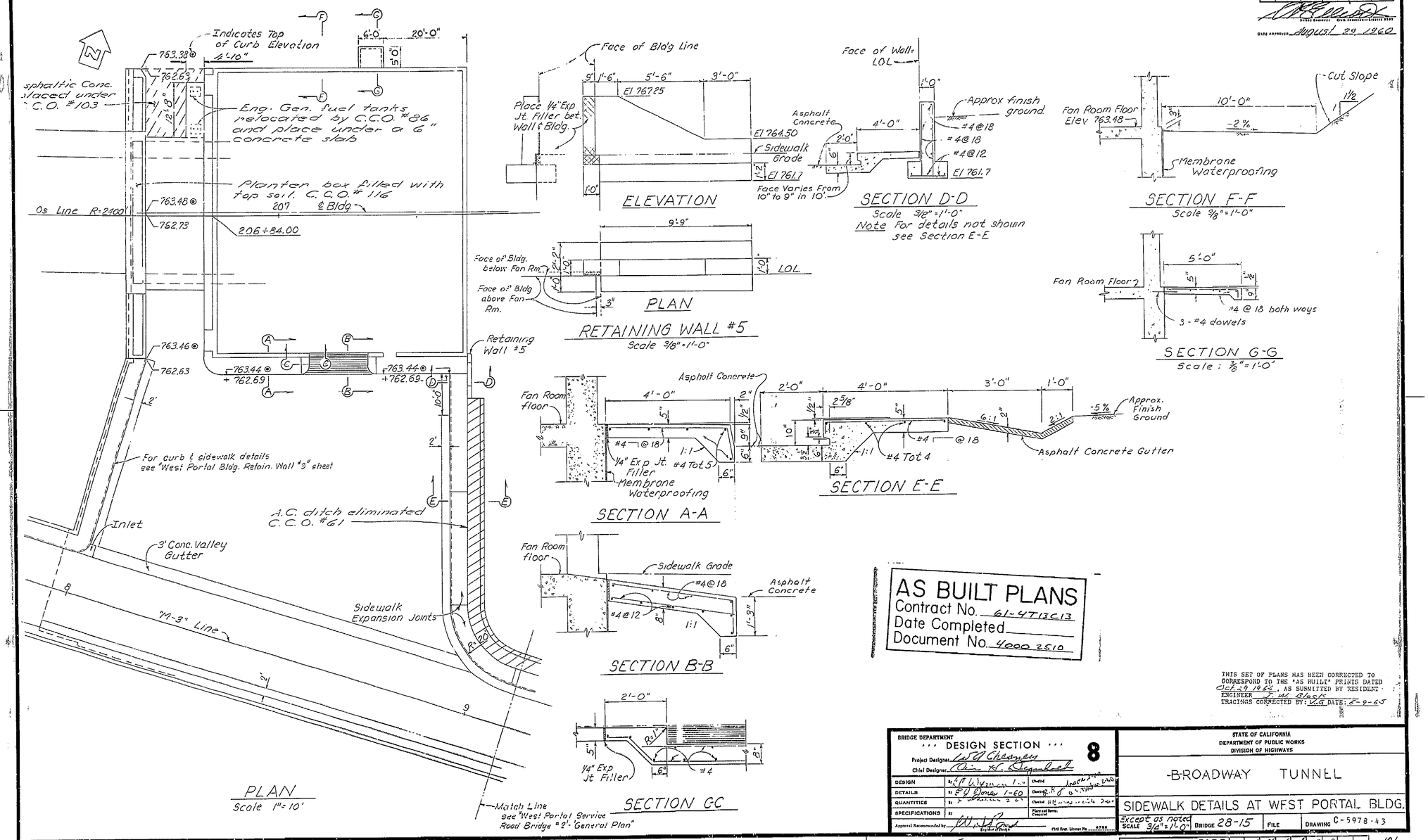
U-0039-1(1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 83 | 163 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | Alp CC | 75 | Oak A | 43 | 86 |

DIVISION ENGINEER — CIVIL ENGINEER—LICENSE 6788

DATE APPROVED August 29, 1960




AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PLANS DATED Oct 29 1965, AS SUBMITTED BY RESIDENT ENGINEER F. W. Black
TRACINGS CORRECTED BY: L.G. DATE: 8-9-65

BRIDGE DEPARTMENT
... DESIGN SECTION ...
8
Project Designer: L. S. Chesney
Chief Designer: Alan K. Dingsdale

| | | | |
|---|---|---|---|
| DESIGN | By | Checked | |
| DETAILS | By | Checked | |
| QUANTITIES | By | Checked | |
| SPECIFICATIONS | By | Plans and Specs. Checked | |

Approved Recommended by: Bridge Engineer
Civil Engr. License No. 6788

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

# BROADWAY TUNNEL

## SIDEWALK DETAILS AT WEST PORTAL BLDG.

Except as noted SCALE 3/4"=1'-0" | BRIDGE 28-15 | FILE | DRAWING C-5978-43

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978

83

BX 235

106

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ___ SIGNATURE ___ TITLE ___

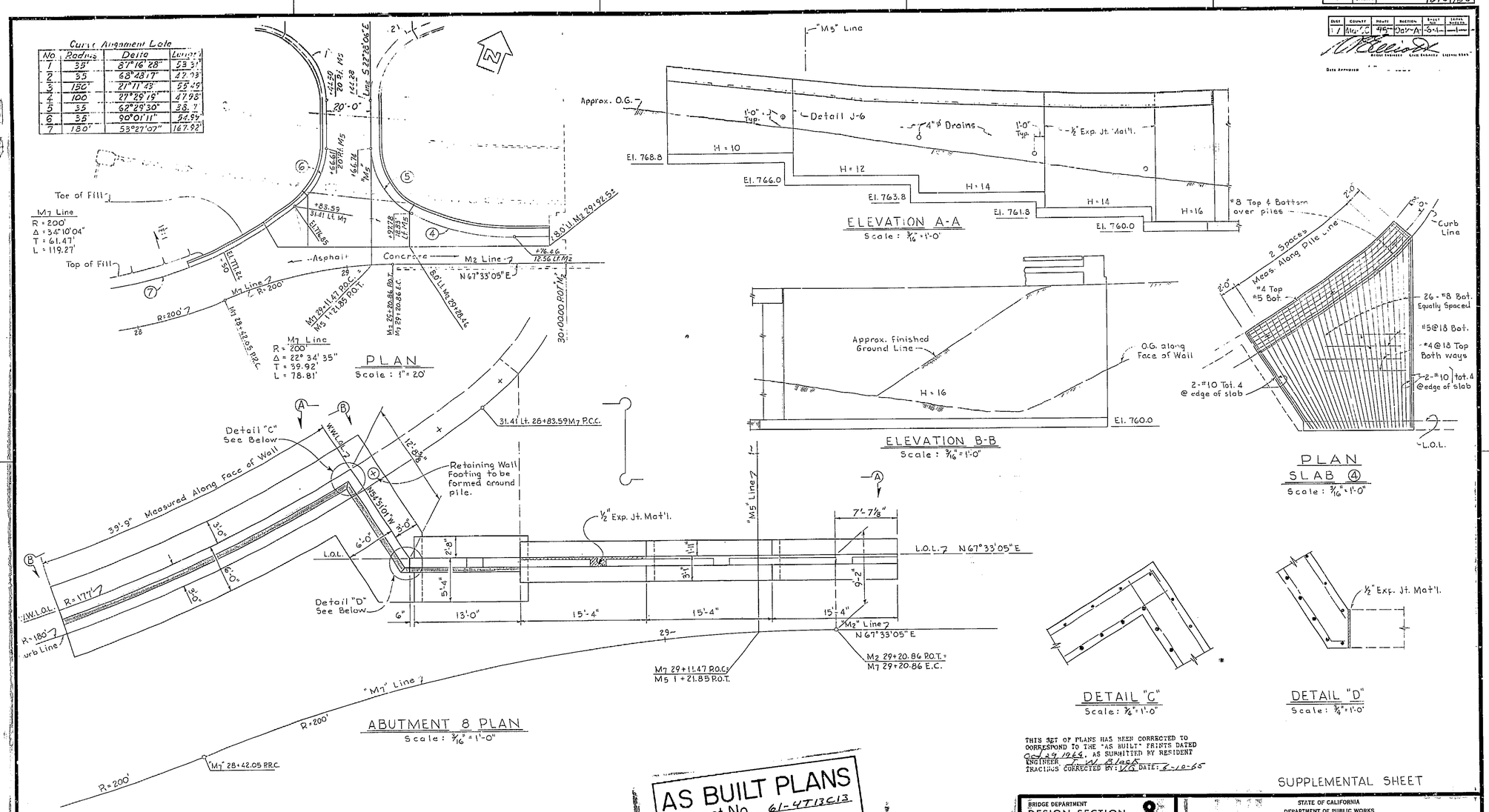
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 1015 | 163 |

| DATE | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 1/16/65 | LA | 5 | 0a7-A1-0a1 | — | — |

BRIDGE ENGINEER  CIVIL ENGINEER  ELECTRICAL ENGINEER

DATE APPROVED




THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER [illegible] 8/1965
TRACINGS CORRECTED BY: [illegible] DATE: 8-10-65

AS BUILT PLANS
Contract No. 61-4713613
Date Completed
Document No. 4000 2510

SUPPLEMENTAL SHEET

BRIDGE DEPARTMENT
DESIGN SECTION 8
Section Supervisor [illegible]

| | | |
|---|---|---|
| DESIGN | By [illegible] | 2-15-61 |
| | Checked O. S. Bartlett | 2-61 |
| DETAILS | By [illegible] | 2-15-61 |
| | Checked J. K. Hoff | 2-61 |
| QUANTITIES | By | |
| | Checked | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
W. PORTAL SERVICE ROAD BRIDGE #2

REVISIONS TO ABUTMENT NO. 8

SCALE As Noted | BRIDGE 28-15 | FILE | DRAWING SC-5978-2

BX 235  Disregard prints bearing earlier numbers  PREL. DRAWING NO. P-5978  125

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE [illegible] SIGNATURE [illegible] TITLE SR RMO

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

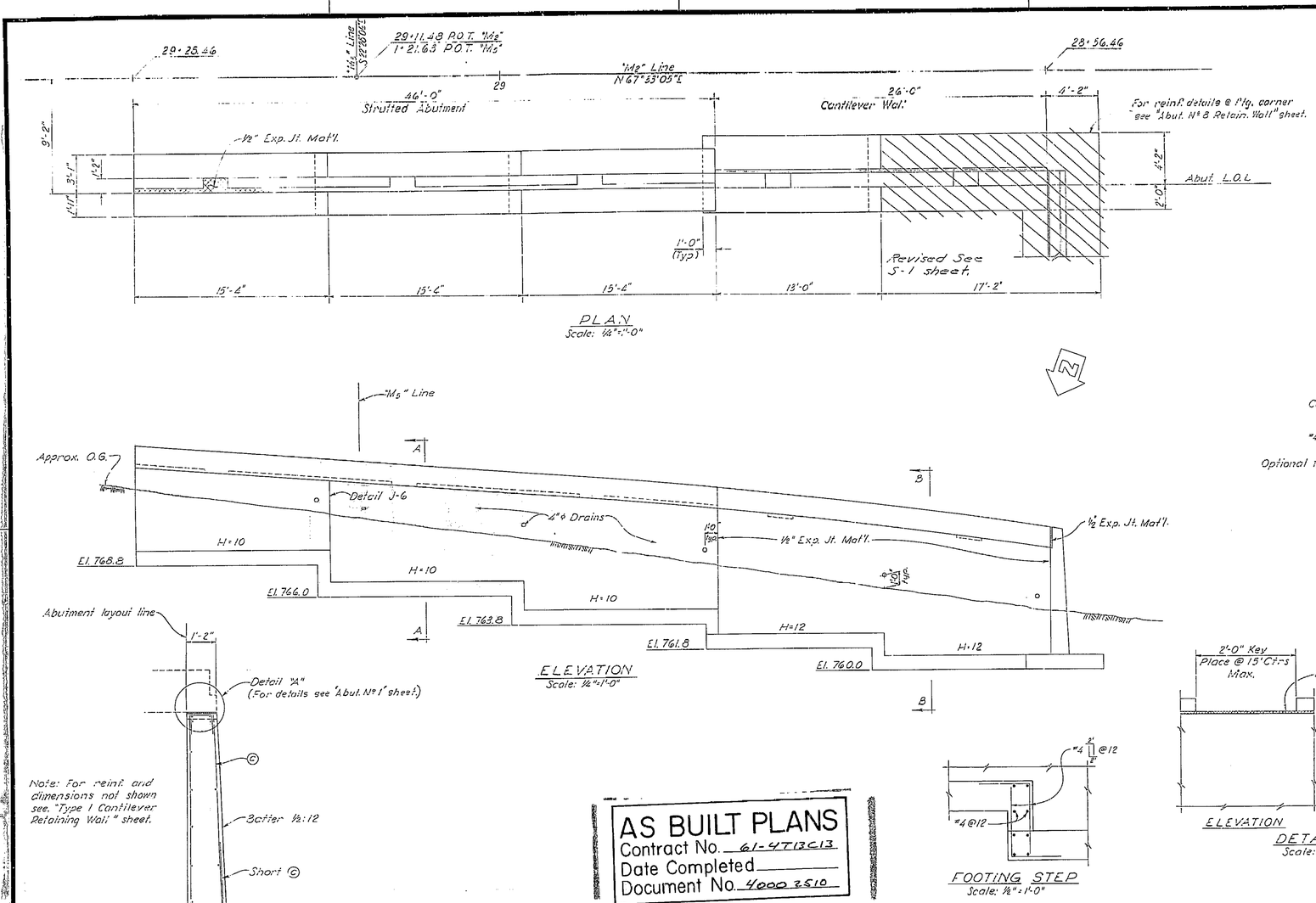
ClibPDF - www.fastio.com

| FED. ROAD DIST. NO. | STATE | F. A. PROJECT No. | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 102 | 103 |

U-0039-1 (1)

| DIST. | COUNTY | ROUTE | SECTION | SHEET | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | LA | 110 | Dwgs. A | 8-1 | 8-4 |

Date Approved: August 24 1964




PLAN
Scale: 1/8"=1'-0"

ELEVATION
Scale: 1/8"=1'-0"

SECTION A-A
Scale: 1/8"=1'-0"
For drainage and backfill see "Strutted Abutment-Spread Ftg." sheet.

SECTION B-B
Scale: 1/8"=1'-0"

ELEVATION

SECTION

DETAIL "B"
Scale: 1"=1'-0"

FOOTING STEP
Scale: 1/8"=1'-0"

AS BUILT PLANS
Contract No. 61-4713C13
Date Completed
Document No. 4000 3510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 29 1964, AS SUBMITTED BY RESIDENT ENGINEER J. W. Black
TRACINGS CORRECTED BY: LG DATE: 2-10-65

For "As Built" information, see "Revisions to Abut No. 8" sheet

102

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8

Project Designer: W. A. Chenney
Chief Designer: Alan K. Blydenstein

| | | | |
|---|---|---|---|
| DESIGN | By W. A. Chenney 12-59 | Checked O.E. Moritz | 2-60 |
| DETAILS | By [illegible] 12/59 | Checked [illegible] | 2-60 |
| QUANTITIES | By [illegible] | Checked [illegible] | 2-60 |
| SPECIFICATIONS | By | Plans and Bldgs. Concurred | |

Approval Recommended by [illegible] Engineer of Design — Civil Engr. License No. [illegible]

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
W. PORTAL SERVICE ROAD BRIDGE #2

ABUTMENT NO. 8

SCALE As Noted | BRIDGE 28-15 | FILE | DRAWING C-5978-62

BX 235

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5979 | 2nd 3rd 4th

126

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ..-..-71 SIGNATURE [illegible] TITLE [illegible]

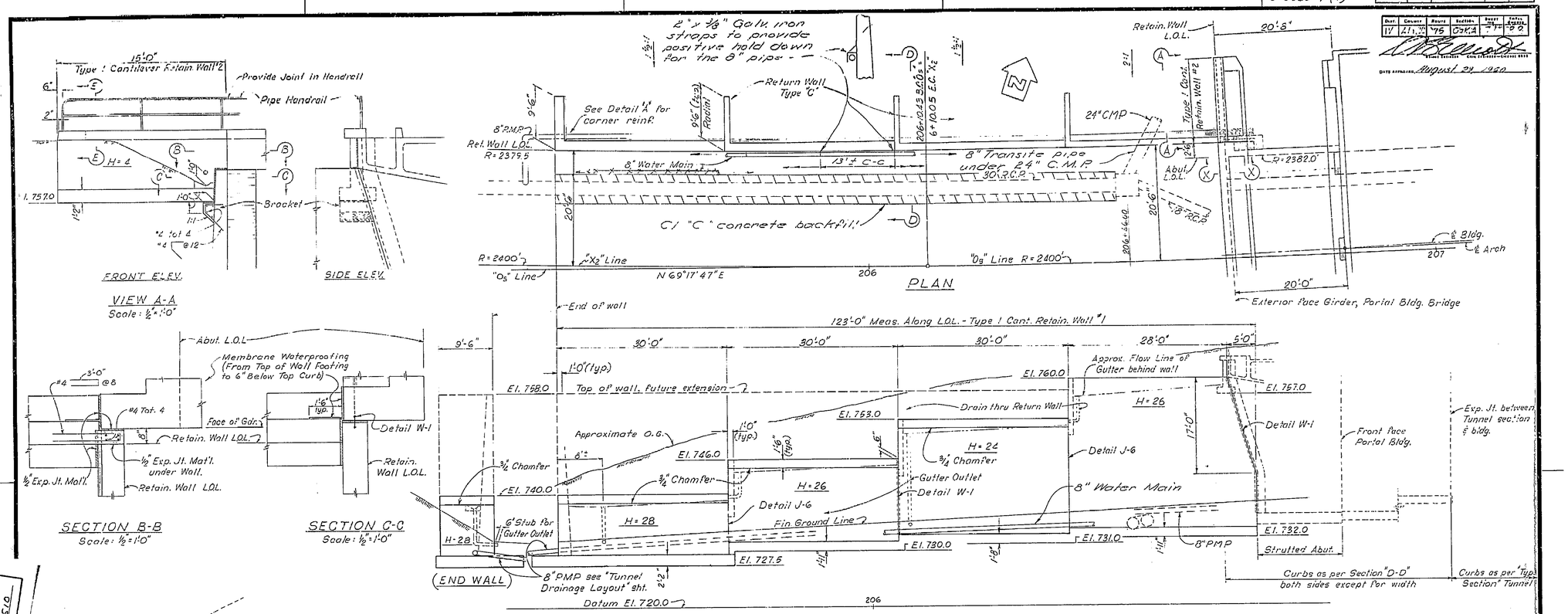
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1"=50' 200 400 600
SCALE 1"=50' 0 700
SCALE 1"=20' 50 100
SCALE 1"=20' 200 300
ClibPDF - www.fastio.com

U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 111 | 133 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | LA | 75 | 0.4/R.4 | | |

DATE APPROVED August 24, 1960




AS BUILT PLANS
Contract No. 61-417213
Date Completed
Document No. 4000 2.5.10

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATE 2-7-12-12, AS SUBMITTED BY RESIDENT ENGINEER W. Black
TRACINGS CORRECTED BY: DATE: 5-11-65

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8
Project Designer
Chief Designer

| | | | |
|---|---|---|---|
| DESIGN | By | Checked | 2-60 |
| DETAILS | By | Checked | 2-60 |
| QUANTITIES | By | Checked | 2-60 |
| SPECIFICATIONS | By | Plans and Spec. Completed | |

Approval Recommended by
Bridge Engineer — Chief Engr. Licensed No. 8755

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

# BROADWAY TUNNEL

## WEST PORTAL BLDG.- RETAIN. WALL #1 & 2

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| Except as Noted 1/2" = 1'-0" | 28-15 | | C-5978-1 |

BX 235 Disregard prints bearing earlier numbers → PREL. DRAWING No P-5772

135

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

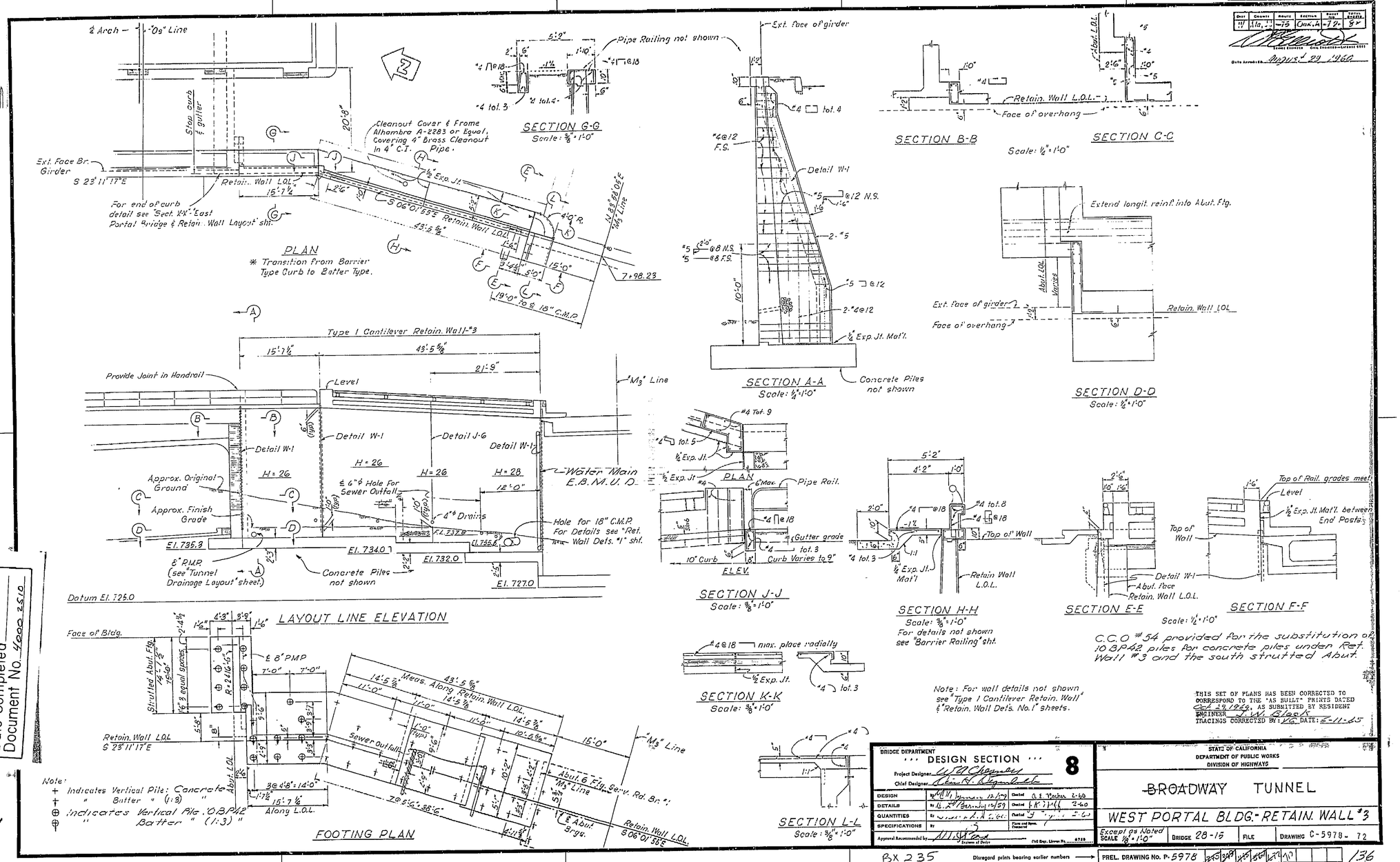
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

U-0039-1

| FED. ROAD DIV. NO. | STATE | F. A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 72 | 103 |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | San Diego | 75 | Oak. A | 72 | 87 |

Date Approved: August 24, 1960




AS BUILT PLANS
Contract No. 61-471213
Date Completed
Document No. 4000 2510

THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED Oct 24, 1964, AS SUBMITTED BY RESIDENT ENGINEER
TRACINGS CORRECTED BY: VG DATE: 5-11-65

BRIDGE DEPARTMENT
... DESIGN SECTION ... 8
Project Designer: W. H. Chapman
Chief Designer: Alan H. Reynolds

| | | | |
|---|---|---|---|
| DESIGN | By W. H. Chapman 12/59 | Checked | A. E. Fischer 2-60 |
| DETAILS | By W. L. Zeff 12/59 | Checked | 2-60 |
| QUANTITIES | By | Checked | |
| SPECIFICATIONS | By | Plans and Spec. Checked | |

Approved Recommended by: Engineer of Design
Civil Eng. Licen. No. 6758

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL

WEST PORTAL BLDG.-RETAIN. WALL #3

Except as Noted SCALE 1/8"=1'-0" | BRIDGE 28-15 | FILE | DRAWING C-5978-72

Disregard prints bearing earlier numbers → PREL. DRAWING No. P-5978

BX 235

136

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE SIGNATURE TITLE

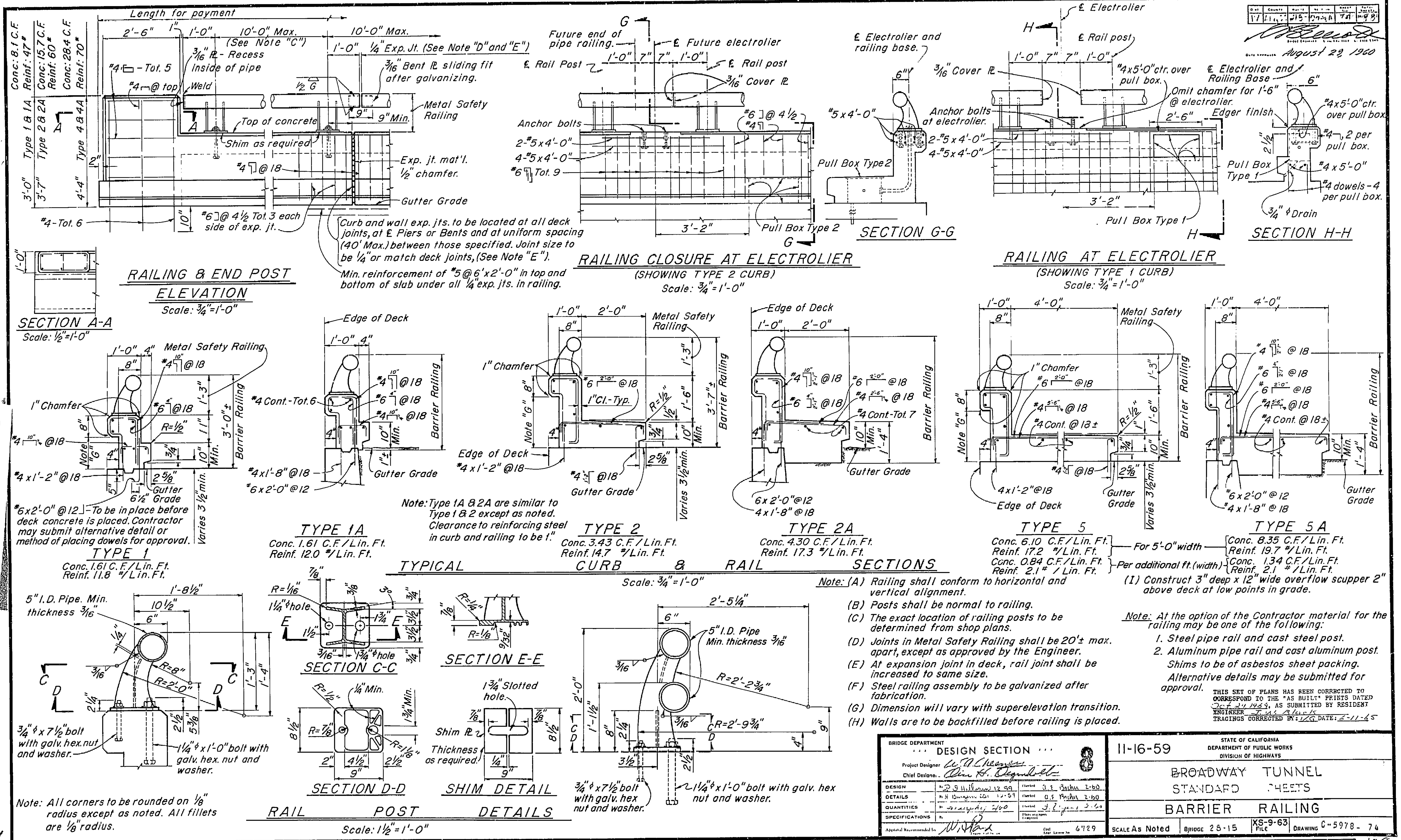
MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

U-0039-1 (1)

| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF | | | 114 | 163 |

Changed #6@12 to Type 4 & 4A
Revised 11-7-59: changed bars in Type 2, Type 2A, Type 4 and 4A. Added dimension "6½" to Type 1.
Revised 11-16-59 Changes pertaining to Reinf. and Conc. quantities.




August 29, 1960

PREL. DRAWING NO. P-5978

138

BX 235

AS BUILT PLANS
Contract No. 61-4T13C13
Date Completed
Document No. 4000 2510

STANDARD DRAWING

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE ______ SIGNATURE ______ TITLE ______

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM

ClibPDF - www.fastio.com

U-0039-1(1)

| FED. AID SECT. NO. | STATE | F.A. PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF | | 129 | 163 |

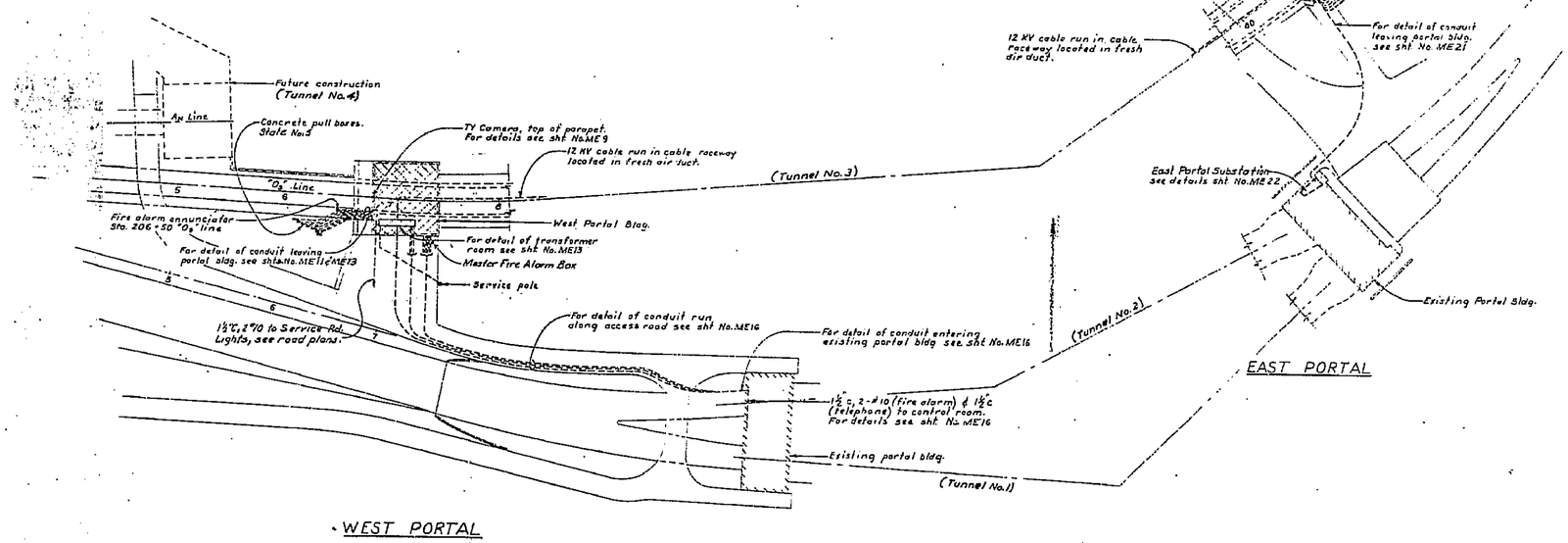
| Bridge | Quantity | Depth | Section | Length | Total Length |
|---|---|---|---|---|---|
| 13-0 | 4.0 | 4' | 2'-0" | 4 | 4.0 |

Date Approved August 29 1960

REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

## MECHANICAL AND ELECTRICAL PLANS

| SHEET NO. | TITLE | SHEET NO. | TITLE |
|---|---|---|---|
| ME-1. | GENERAL PLAN (ELECTRICAL) | ME-21. | EAST PORTAL BUILDING |
| ME-2. | POWER SCHEMATIC - WEST PORTAL | ME-22. | EAST PORTAL SUBSTATION |
| ME-3. | CONTROL SCHEMATIC | ME-23. | SWITCHBOARDS AND CONTROL DESK |
| ME-4. | SCHEMATIC - TUNNEL | ME-24. | CONTROL CABINET |
| ME-5. | POWER SCHEMATIC - EAST PORTAL | ME-25. | ELECTRICAL DETAILS |
| ME-6. | FIRE ALARM & EMERGENCY TELEPHONE SYSTEMS | | |
| ME-7. | INTERCOMMUNICATION SYSTEM | ME-26. | GENERAL PLAN (MECHANICAL) |
| ME-8. | ROADWAY P.A. SYSTEM | ME-27. | FIRE & WASH VALVE DETAILS |
| ME-9. | APPROACH TV AND CO ANALYZER SYSTEMS | ME-28. | FAN LAYOUT - NO. 1 |
| ME-10. | LIGHTING PLAN - WEST PORTAL BUILDING | ME-29. | FAN LAYOUT - NO. 2 |
| | | ME-30. | FAN MOTOR MOUNTING DETAIL |
| ME-11. | LIGHTING & CONTROL - WEST PORTAL BUILDING | | |
| ME-12. | WEST PORTAL BUILDING CONDUIT DETAILS | ME-31. | DAMPER DOOR & FRAME |
| ME-13. | WEST PORTAL SUBSTATION ROOM LAYOUT | ME-32. | TRANSITION DUCT LAYOUT |
| ME-14. | CABLE RACEWAY IN BUILDING | ME-33. | TRANSITION DUCT DETAILS |
| ME-15. | CONTROL CONDUIT - WEST PORTAL BUILDING | ME-34. | ENGINE - GENERATOR |
| | | ME-35. | BUILDING PLUMBING |
| ME-16. | EXISTING WEST PORTAL BUILDING | | |
| ME-17. | TUNNEL ELECTRICAL EQUIPMENT LAYOUT | | |
| ME-18. | TYPICAL TUNNEL CROSS SECTION | | |
| ME-19. | EMERGENCY STATION DETAILS | | |
| ME-20. | CABLE RACEWAY DETAILS | | |




BRIDGE DEPARTMENT
DESIGN SECTION 11
Project Designer
Chief Designer

| | | | |
|---|---|---|---|
| DESIGN | | Checked | |
| DETAILS | | Checked | |
| QUANTITIES | | Checked | |
| SPECIFICATIONS | | Plans and Book Examined | |

Approved & Recommended for Approval

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
GENERAL PLAN (ELECTRICAL)

SCALE 1" = 50'-0" | BRIDGE 25-05 | FILE | DRAWING 10-5973-53

16X

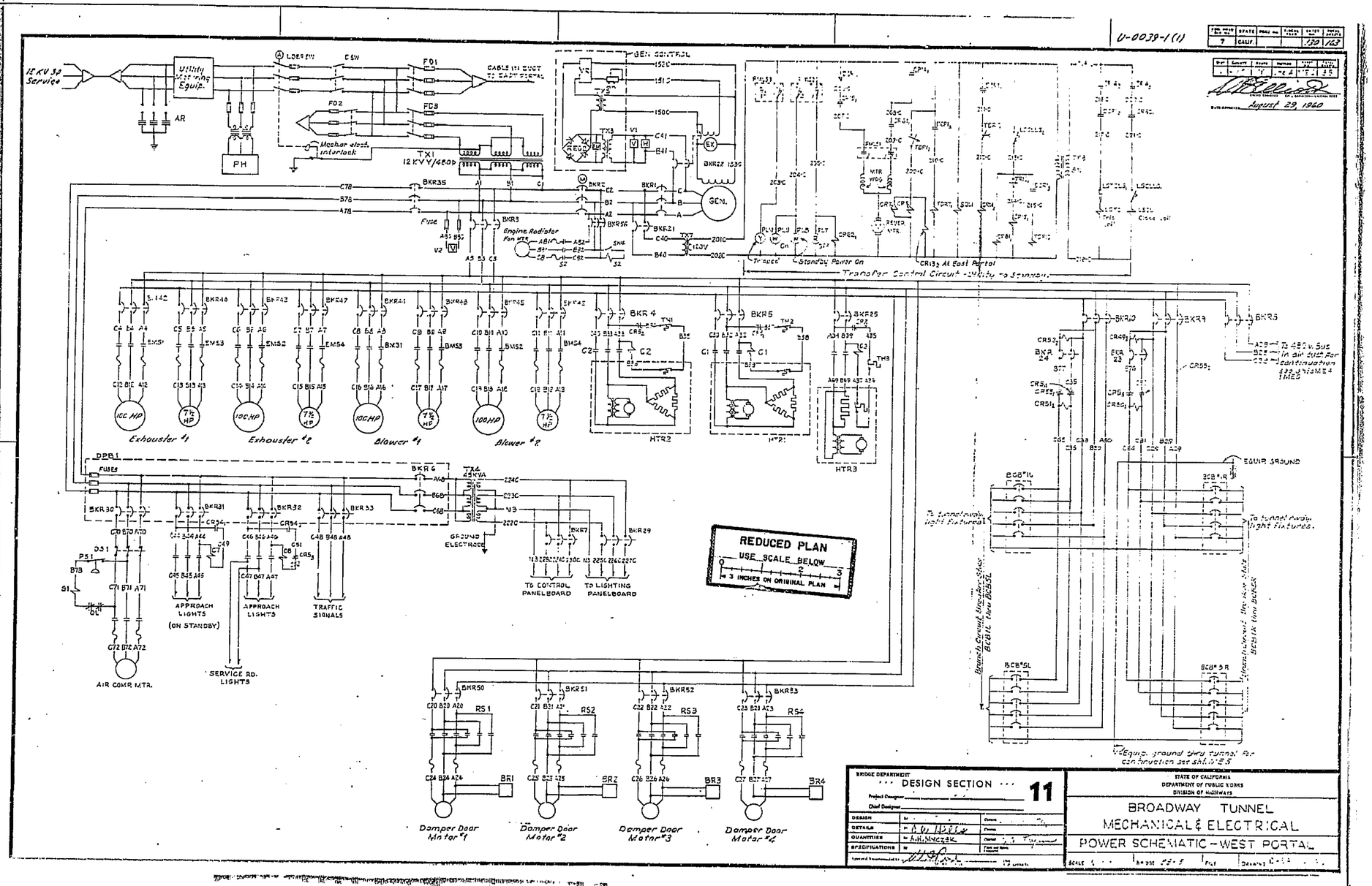
CONTRACT PLANS
Contract No. 61-4T/3C13F
Document No. 40002510

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 4-9-82 | SIGNATURE Donald Blackford | TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-55-78

ClibPDF - www.fastio.com




BRIDGE DEPARTMENT
DESIGN SECTION 11

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
POWER SCHEMATIC - WEST PORTAL

16X

CONTRACT PLANS
Contract No. 61-4T/3C13F
Document No. 40002510

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DATE 4-9-82 SIGNATURE Donald Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-55-70

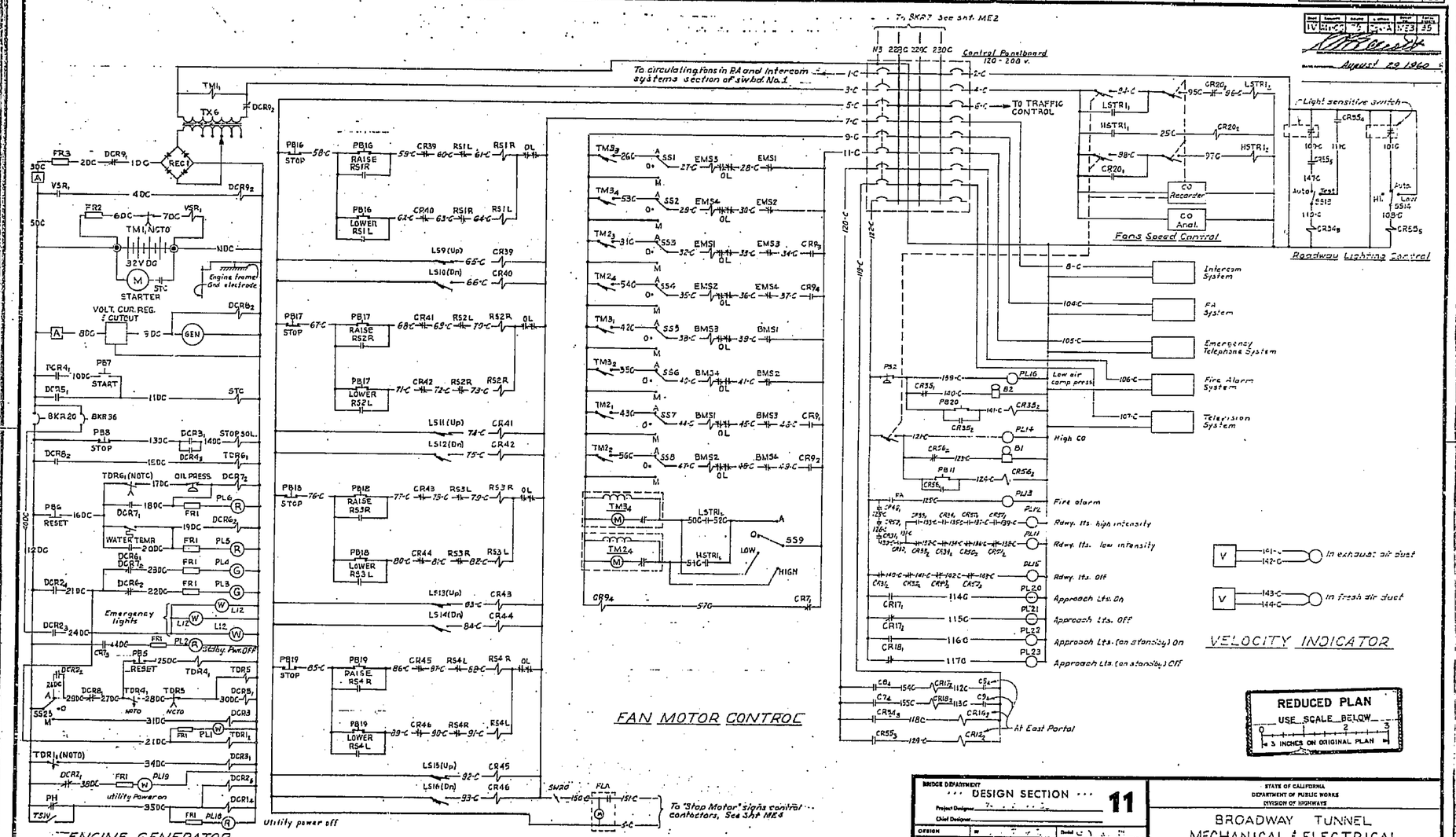
ClibPDF - www.fastio.com

U-0039-1 (1)

| FED. ROAD DIST. NO. | STATE | FEDERAL AID PROJ. NO. | FISCAL YEARS | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 131 | 165 |

| DIST. | SUBDIST. | ROUTE | POSTMILE | FUNCTIONAL SUPERVISOR | DATE |
|---|---|---|---|---|---|
| 11V | Hi-C | 75 | 4.4/5.4 | N.23 | 35 |

August 22 1960




BRIDGE DEPARTMENT
DESIGN SECTION 11
Project Designer
Chief Designer
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
CONTROL SCHEMATIC

SCALE NONE | BRIDGE 28-15 | FILE | DRAWING C-59

16X

CONTRACT PLANS
Contract No. 61-4T/3C13F
Document No. 4000 2510

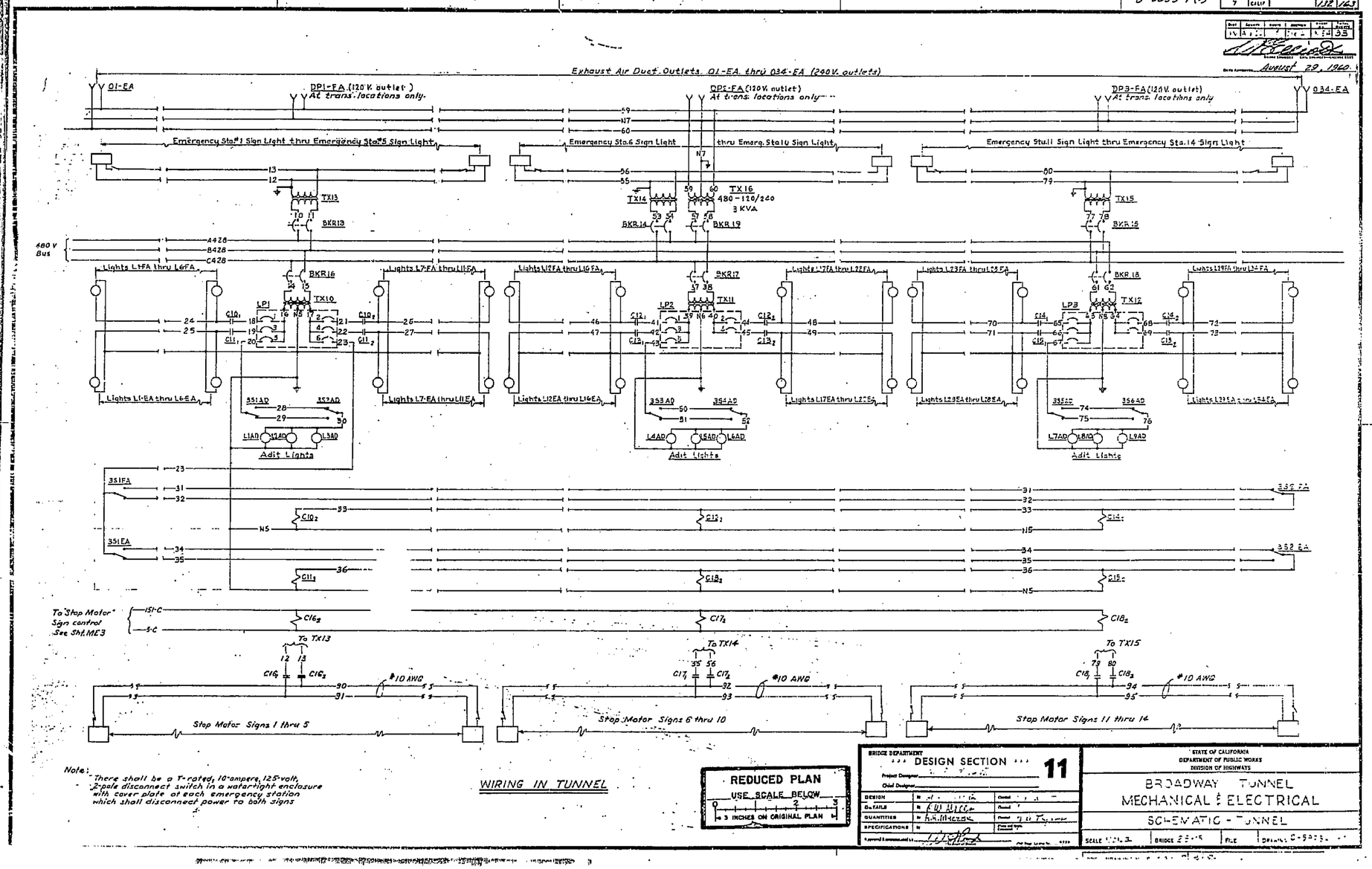
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

| DATE | SIGNATURE | TITLE |
|---|---|---|
| 4-9-82 | Donald Blackford | SUPERVISOR OF MICROFILM SERVICES |

OAS-58-78

ClibPDF - www.fastio.com

U-0039-1(1)




Note: There shall be a T-rated, 10-ampere, 125-volt, 2-pole disconnect switch in a watertight enclosure with cover plate at each emergency station which shall disconnect power to both signs

WIRING IN TUNNEL

REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

BRIDGE DEPARTMENT
DESIGN SECTION 11
Project Designer
Chief Designer
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
SCHEMATIC - TUNNEL

SCALE | BRIDGE | FILE | DRAWING

August 29, 1960

16X

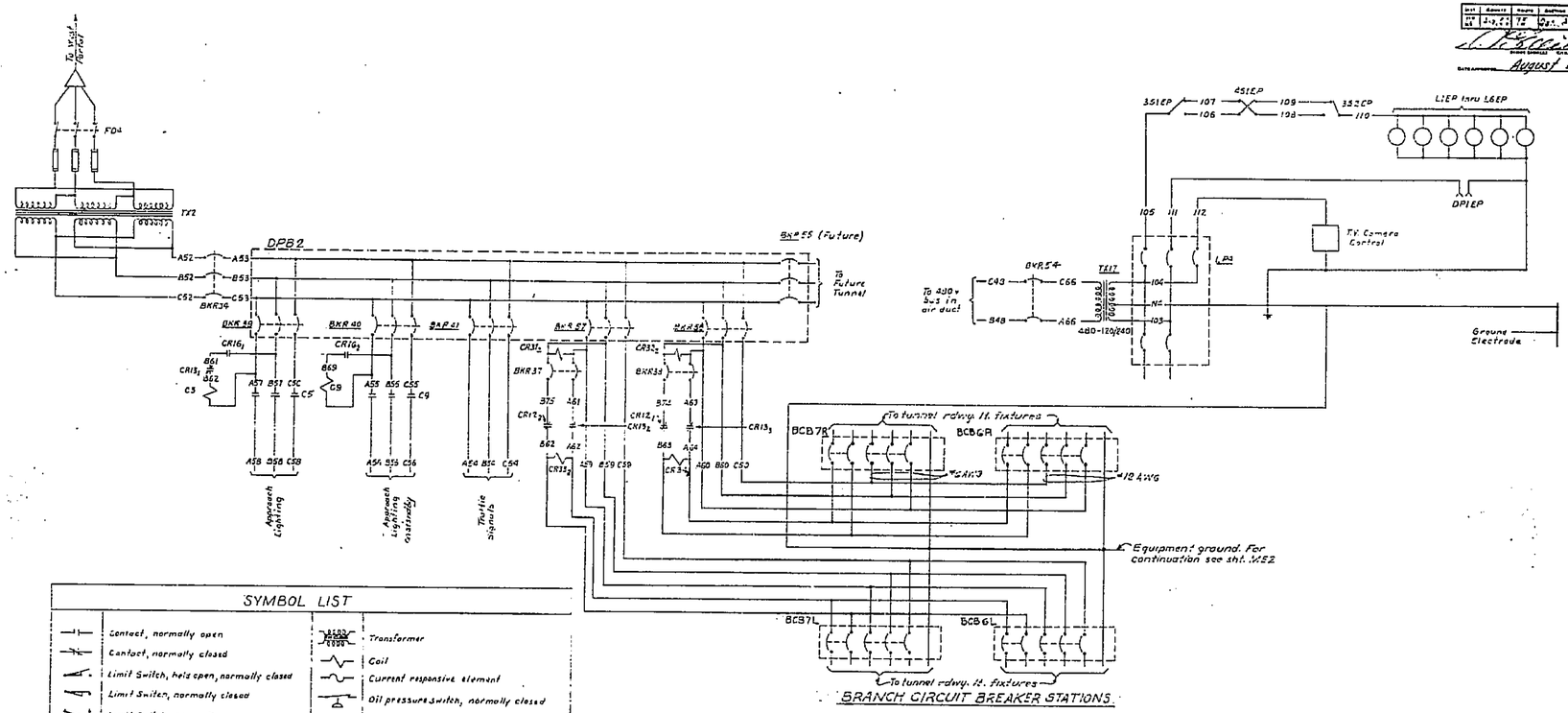
CONTRACT PLANS
Contract No. 61-4T13C13F
Document No. 4000 2510

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 4-9-82 | SIGNATURE Donald Blackford | TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-59-70

ClibPDF - www.fastio.com




U-0053-1(1) | 7 | CALIF. | W53 W63

Approved August 29 1960

16X

CONTRACT PLANS
Contract No. 61-4T/3C13F
Document No. 4000 2510

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DATE 4-9-82 | SIGNATURE Donald Blackford | TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-95-78

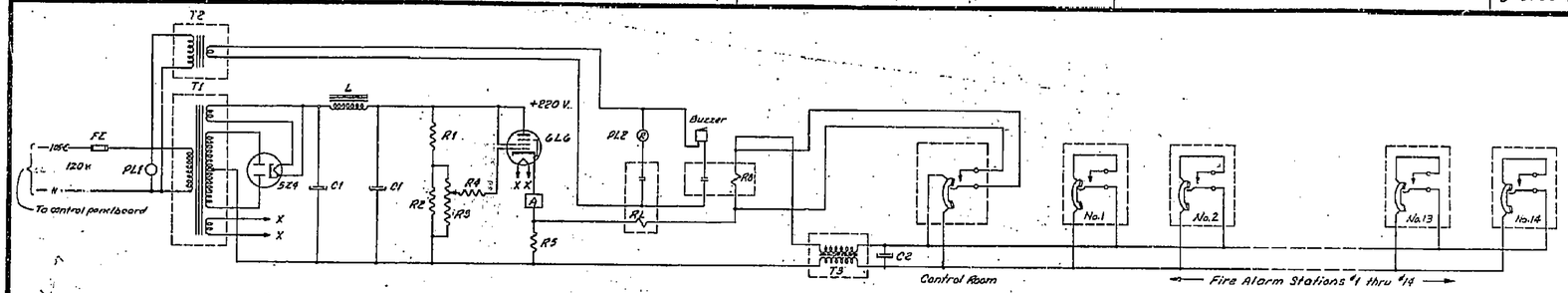
ClibPDF - www.fastio.com

U-0039-1 (1)

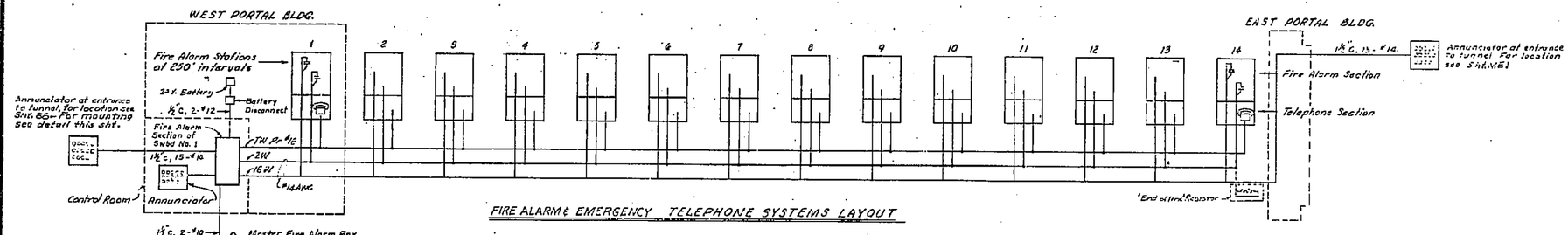
| 7 | CALIF. | | | | |
|---|---|---|---|---|---|

| DIST | COUNTY | ROUTE | SECTION | CONTRACT NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 11 | SD-SD | 75 | 2.0-2.4 | 11E5-55 | 55 |

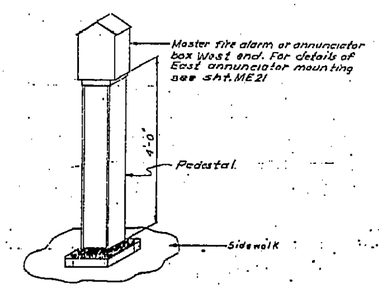
August 29, 1960




TELEPHONE SCHEMATIC




FIRE ALARM & EMERGENCY TELEPHONE SYSTEMS LAYOUT




MOUNTING DETAIL
No Scale

REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

| BRIDGE DEPARTMENT | | |
|---|---|---|
| DESIGN SECTION | | 11 |
| Project Designer | | |
| Chief Designer | | |
| DESIGN | | |
| DETAILS | | |
| QUANTITIES | A.B. McCuck | |
| SPECIFICATIONS | | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
FIRE ALARM & EMERG. TELEPHONE SYSTEM

SCALE | BRIDGE 25-15 | FILE | DRAWING

PREL. DRAWING NO.

16X

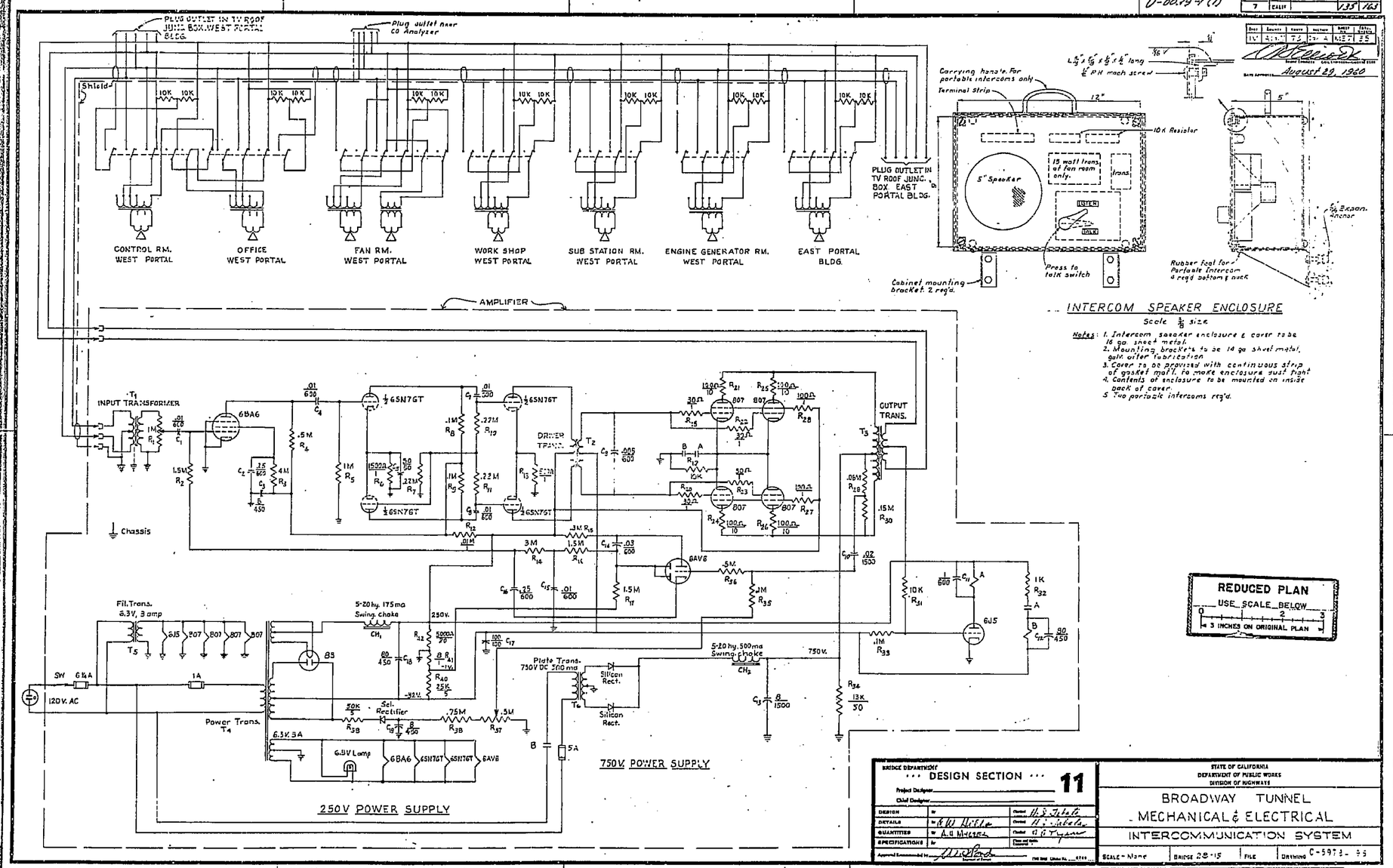
CONTRACT PLANS
Contract No. 61-4T/3C/3F
Document No. 40002510

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

| DATE | SIGNATURE | TITLE |
|---|---|---|
| 4-9-82 | Donald Blackford | SUPERVISOR OF MICROFILM SERVICES |

DAS-SS-79

ClibPDF - www.fastio.com




16X

CONTRACT PLANS
Contract No. 61-4T/13C/13F
Document No. 4000 2510

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 4-9-82 | SIGNATURE Donald Blackford | TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-55-78

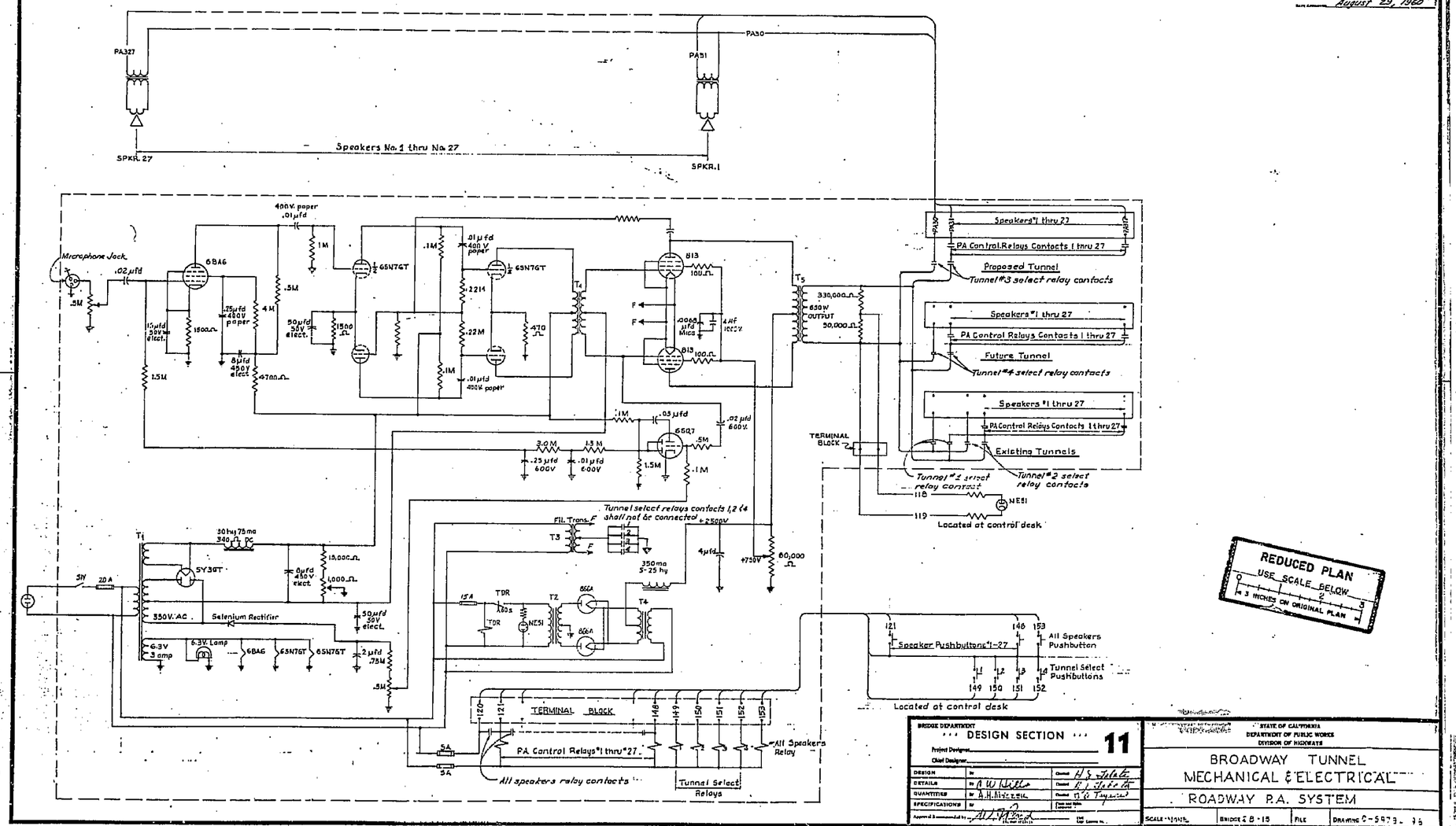
ClibPDF - www.fastio.com

U-0039-1(1)

| DIST. | COUNTY | ROUTE | SECTION | PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|---|
| 7 | LA | | | | 172 | 167 |

| DIST. | COUNTY | ROUTE | SECTION | PROJECT NO. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|---|
| 11 | Alameda | 13 | Oakland | M.E. 8 | 35 | |

August 29, 1960




REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

BRIDGE DEPARTMENT
*** DESIGN SECTION *** 11

Project Designer
Chief Designer

| | | | |
|---|---|---|---|
| DESIGN | | Checked | H.S. Tibbets |
| DETAILS | A.W. Wells | Checked | R.J. Stokes |
| QUANTITIES | A.H. Mizzell | Checked | D.G. Taylor |
| SPECIFICATIONS | | | |

Approved for construction by

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
ROADWAY P.A. SYSTEM

SCALE | BRIDGE Z B-15 | FILE | DRAWING C-5973

16X

CONTRACT PLANS
Contract No. 61-4T/3C13F
Document No. 4000 2510

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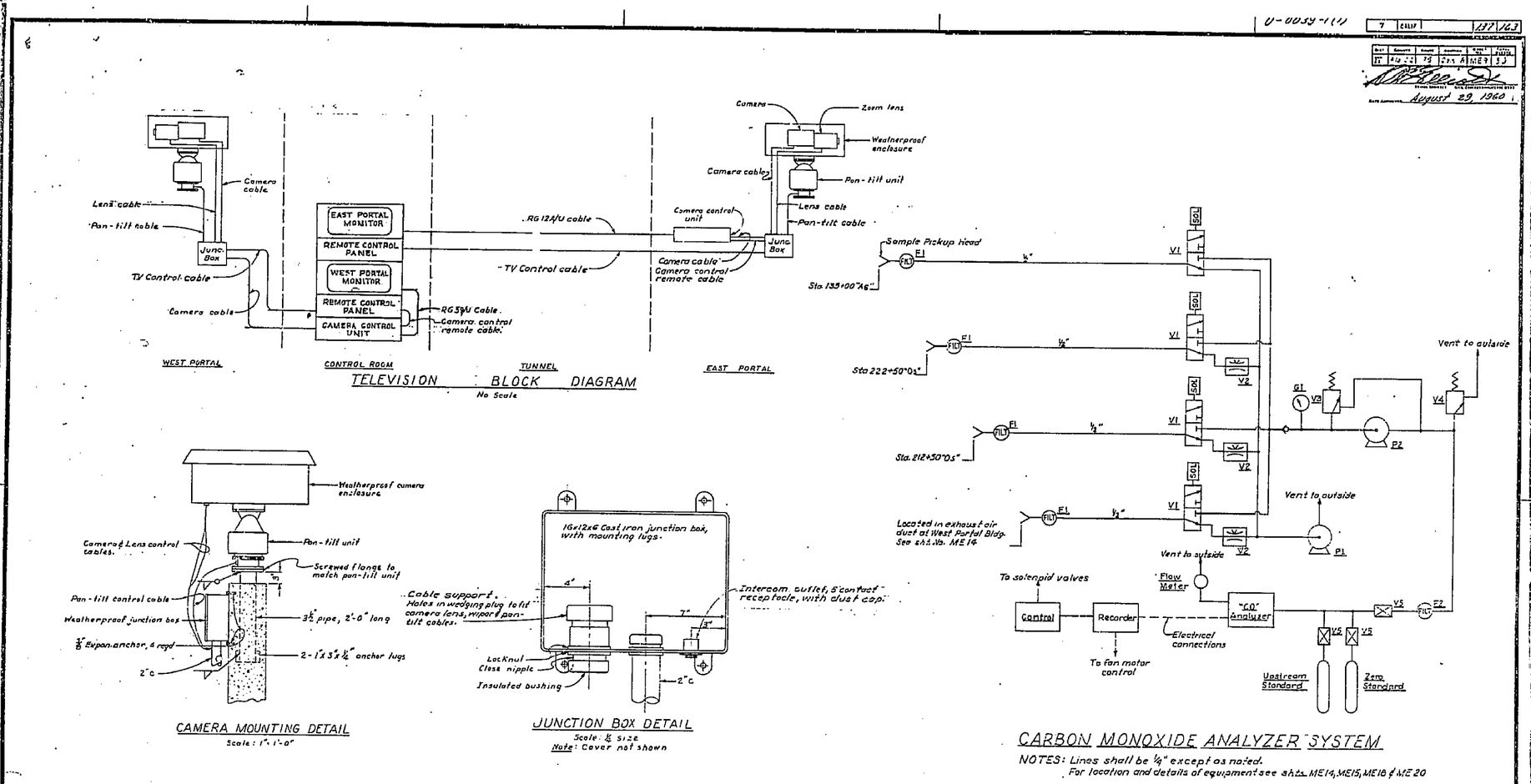
| DATE | SIGNATURE | TITLE |
|---|---|---|
| 4-9-82 | Donald Blackford | SUPERVISOR OF MICROFILM SERVICES |

DAS-55-78

ClibPDF - www.fastio.com




TELEVISION BLOCK DIAGRAM
No Scale



CAMERA MOUNTING DETAIL
Scale: 1" = 1'-0"



JUNCTION BOX DETAIL
Scale: ¼ size
Note: Cover not shown



CARBON MONOXIDE ANALYZER SYSTEM

NOTES: Lines shall be ¼" except as noted.
For location and details of equipment see shts. ME14, ME15, ME18 & ME20

REDUCED PLAN
USE SCALE BELOW
3 INCHES ON ORIGINAL PLAN

BRIDGE DEPARTMENT
DESIGN SECTION 11
Project Designer
Chief Designer
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
APPROACH TV AND CO ANALYZER SYSTEMS

SCALE As noted | BRIDGE | FILE | DRAWING

Designed areas bearing water numbers
PREL. DRAWING NO. P-5375

August 29, 1960

16X

CONTRACT PLANS
Contract No. 61-4T13C13F
Document No. 4000 2510

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DATE 4-9-82 | SIGNATURE Donald Blackford | TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-55-78

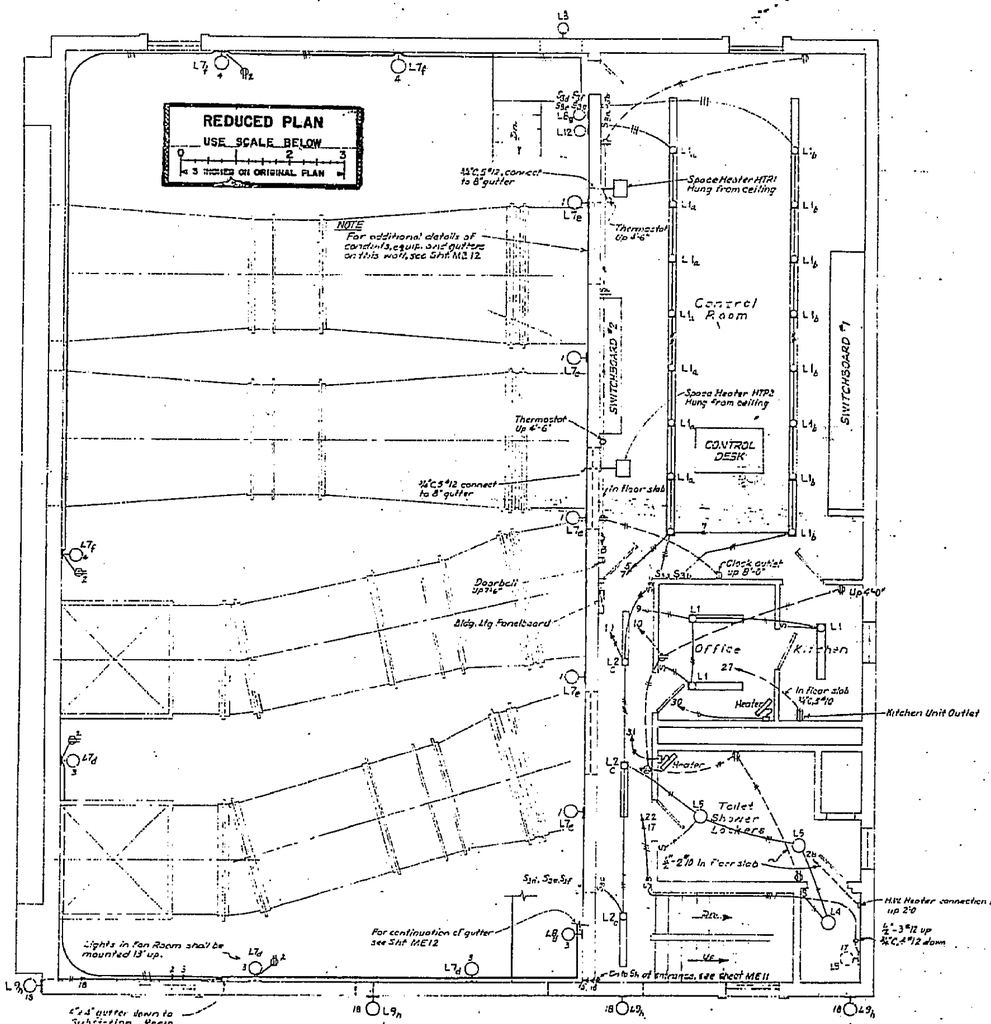
ClibPDF - www.fastio.com

U-0039-1(1)

| | | | |
|---|---|---|---|
| 7 | CALIF | | 138 |

| Div | Bridge | Route | Section | Phase | Sheet No. | Total Sheets |
|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 1 | 1 | 11 | 35 |

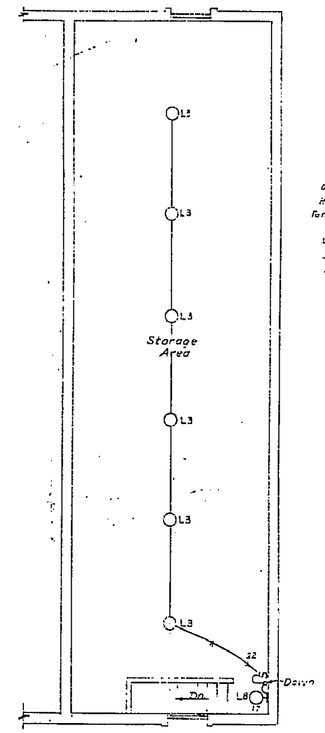
August 29, 1962




PLAN-FAN ROOM & CONTROL ROOM

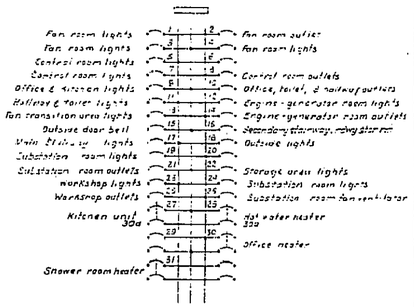
Scale-1/4"=1'-0"

NOTES:
1. Conduits shall be surface run except as noted
2. Light fixtures at control room level shall be hung below structural deck or floor beams
3. Outside light fixtures shall be mounted 12' above the ground.
4. Stairway lights up 8'-0" from floor or landing




PLAN-STORAGE AREA

Scale-3/16"=1'-0"




LIGHTING PANELBOARD

| WIRING SYMBOLS | |
|---|---|
| Ceiling Walls | Light fixture, number indicates circuit, capital letter with number indicates type of fixture, & sub-letter indicates controlling switch. |
| | Duplex convenience outlet |
| $S_a$ | Single-pole switch controlling similarly lettered device. |
| $S_{3a}$ | Three-way switch controlling similarly lettered device. |
| $S_{4a}$ | Four-way switch controlling similarly lettered device. |
| | Surface run conduit. Cross marks indicate number of conductors. |
| | Conduit concealed in or suspended from floor below |
| 12 13 | Conduit indicating home runs to building lighting panelboard. |

| EQUIPMENT MOUNTING HEIGHTS | |
|---|---|
| Switches | 4'-2" |
| Outlets | 12" above floor except as noted |
| Panelboard | 5'-6" to handle of highest breaker |
| Light fixtures | As noted |

BRIDGE DEPARTMENT: DESIGN SECTION 11

Project Designer
Chief Designer

| | | | |
|---|---|---|---|
| DESIGN | | Checked | |
| DETAILS | | Checked | |
| QUANTITIES | | Checked | |
| SPECIFICATIONS | | Date and Initials Checked | |

Approved Recommended by — Chief Bridge Engineer

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
LIGHTING PLAN WEST PORTAL BUILDING

SCALE AS NOTED | BRIDGE | FILE | DRAWING

Dotted prefix indicates sheet number. PREL. DRAWING NO.


16X

CONTRACT PLANS
Contract No. 61-4T/3C13F
Document No. 4000 2510

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DATE 4-9-82 | SIGNATURE Donald Blackford | TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-SS-78

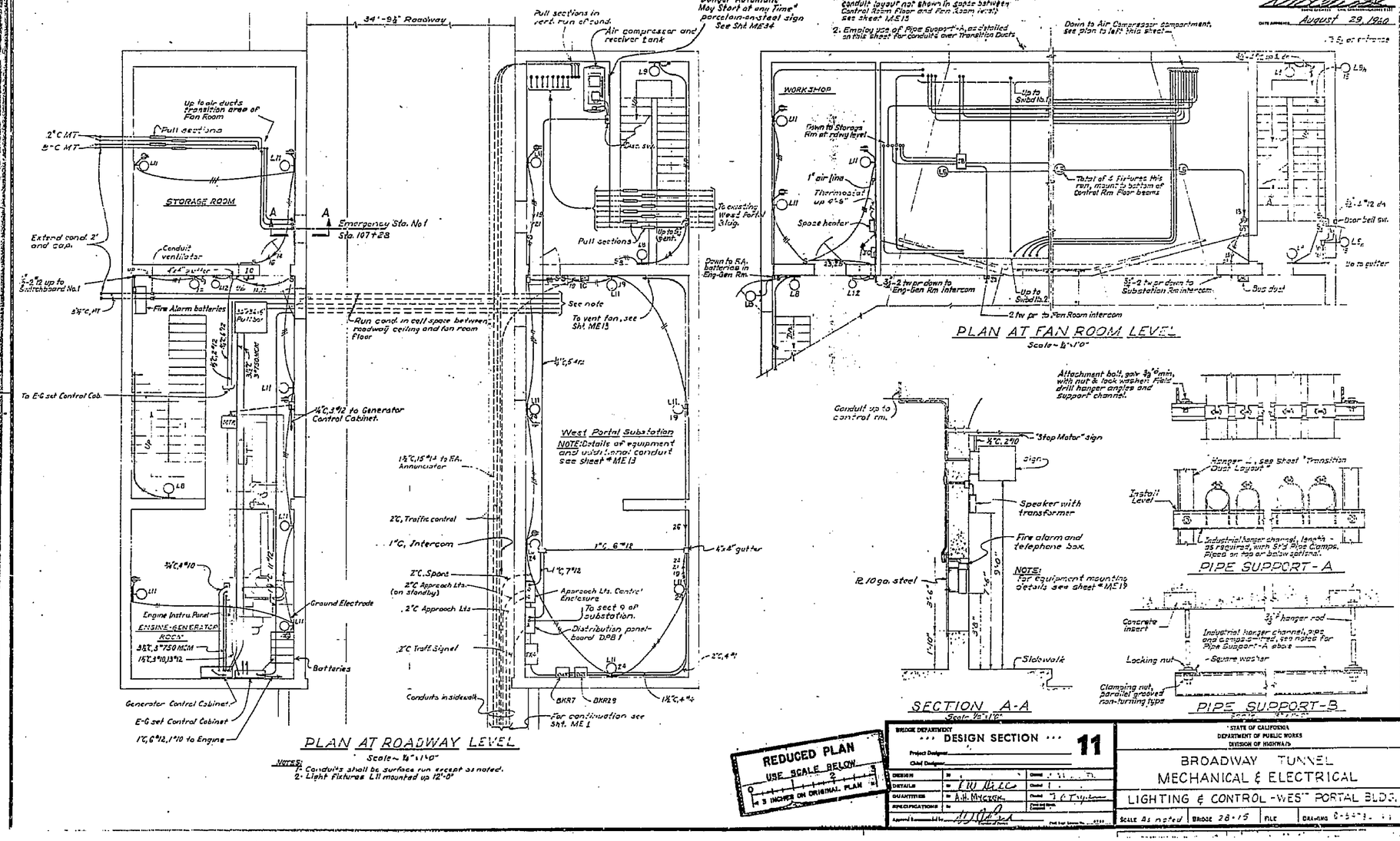
ClibPDF - www.fastio.com

U-0039-1 (1)

| FED. HWY. ADM. REGION | STATE | F.A. PROJECT No. | SHEET No. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF | | 139 | 143 |

| DATE | CHANGE | BY | DATE | CHANGE | BY |
|---|---|---|---|---|---|
| | | | | | |

August 29, 1980




REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

| BRIDGE DEPARTMENT | | | |
|---|---|---|---|
| *** DESIGN SECTION *** 11 | | | |
| Project Designer | | | |
| Chief Designer | | | |
| DESIGN | | Checked | |
| DETAILS | | Checked | |
| QUANTITIES | A.H. Mycock | Checked | |
| SPECIFICATIONS | | Checked and Work Completed | |
| Approved for Construction | | | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
LIGHTING & CONTROL - WEST PORTAL BLDG.

| SCALE As noted | BRIDGE 28-15 | FILE | DRAWING |
|---|---|---|---|

16X

CONTRACT PLANS
Contract No. 61-4T/3C/3F
Document No. 40002510

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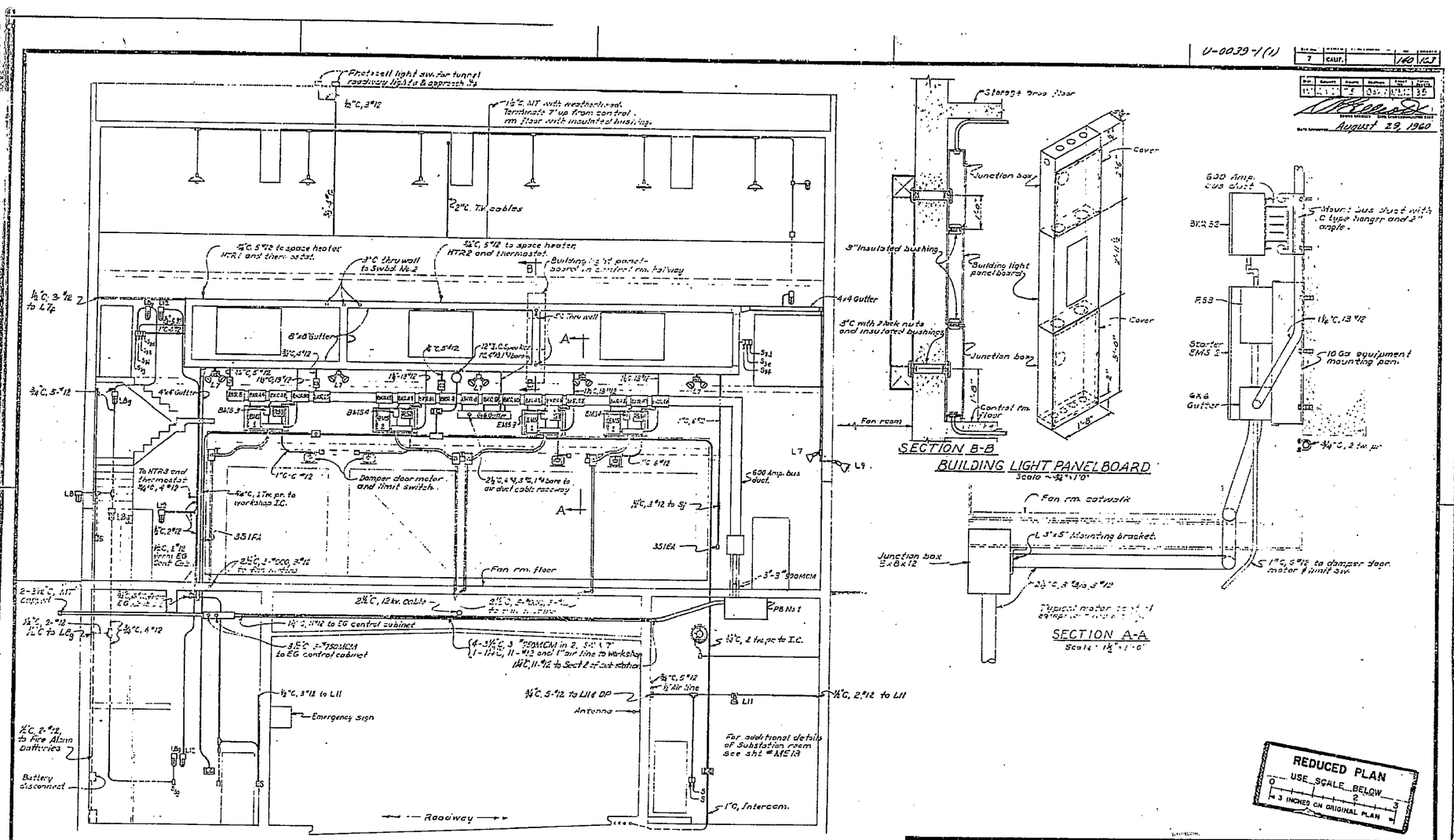
| DATE | SIGNATURE | TITLE |
|---|---|---|
| 4-9-82 | Donald Blackford | SUPERVISOR OF MICROFILM SERVICES |

DAS-55-76

ClibPDF - www.fastio.com




16X

CONTRACT PLANS
Contract No. 61-4T/3C/3F
Document No. 40002510

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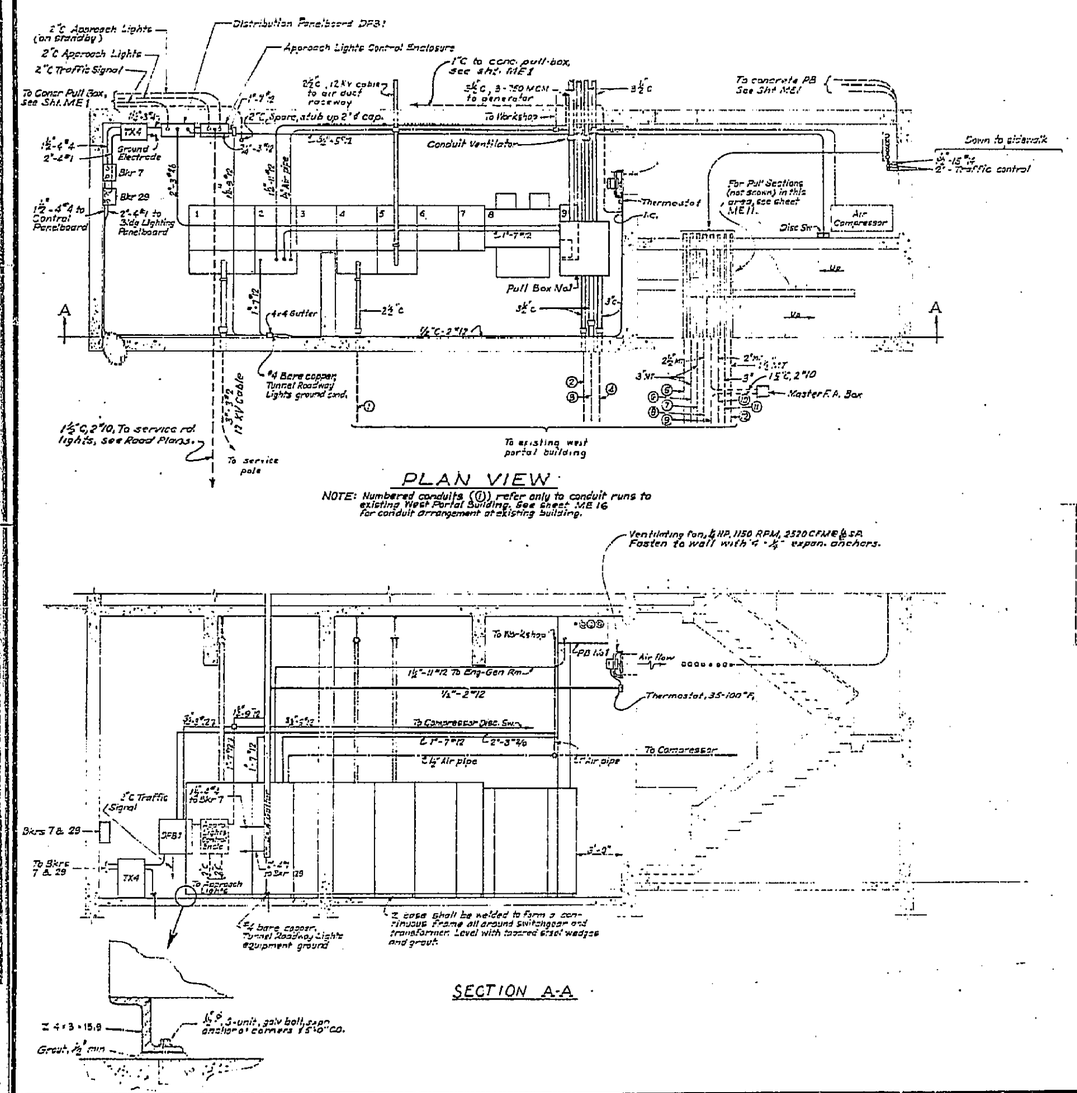
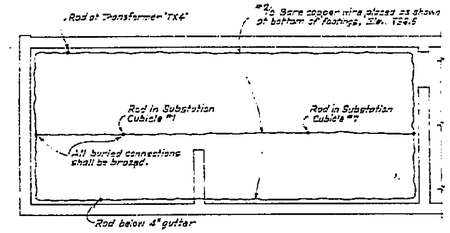
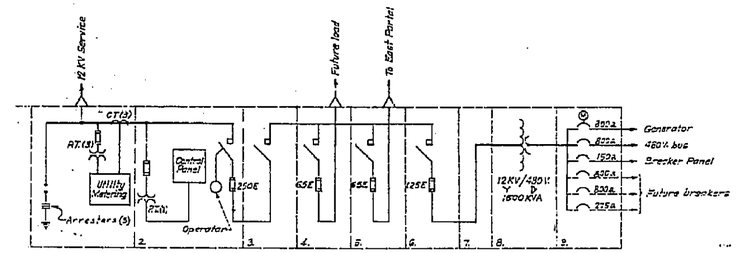
DATE 4-9-82 SIGNATURE Donald Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-SS-70

ClibPDF - www.fastio.com




REDUCED PLAN
USE SCALE BELOW
3 INCHES ON ORIGINAL PLAN

BRIDGE DEPARTMENT
DESIGN SECTION 11
Project Designer
Chief Designer
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS
Approved & Recommended by
Director of Design

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
WEST PORTAL SUBSTATION ROOM LAYOUT

SCALE 3/8"=1'-0" | BRIDGE 23-15 | DRAWING

Duregard prints bearing earlier numbers → PREL. DRAWING No.

August 29, 1960

16X

CONTRACT PLANS
Contract No. 61-4T13C13F
Document No. 4000 2510

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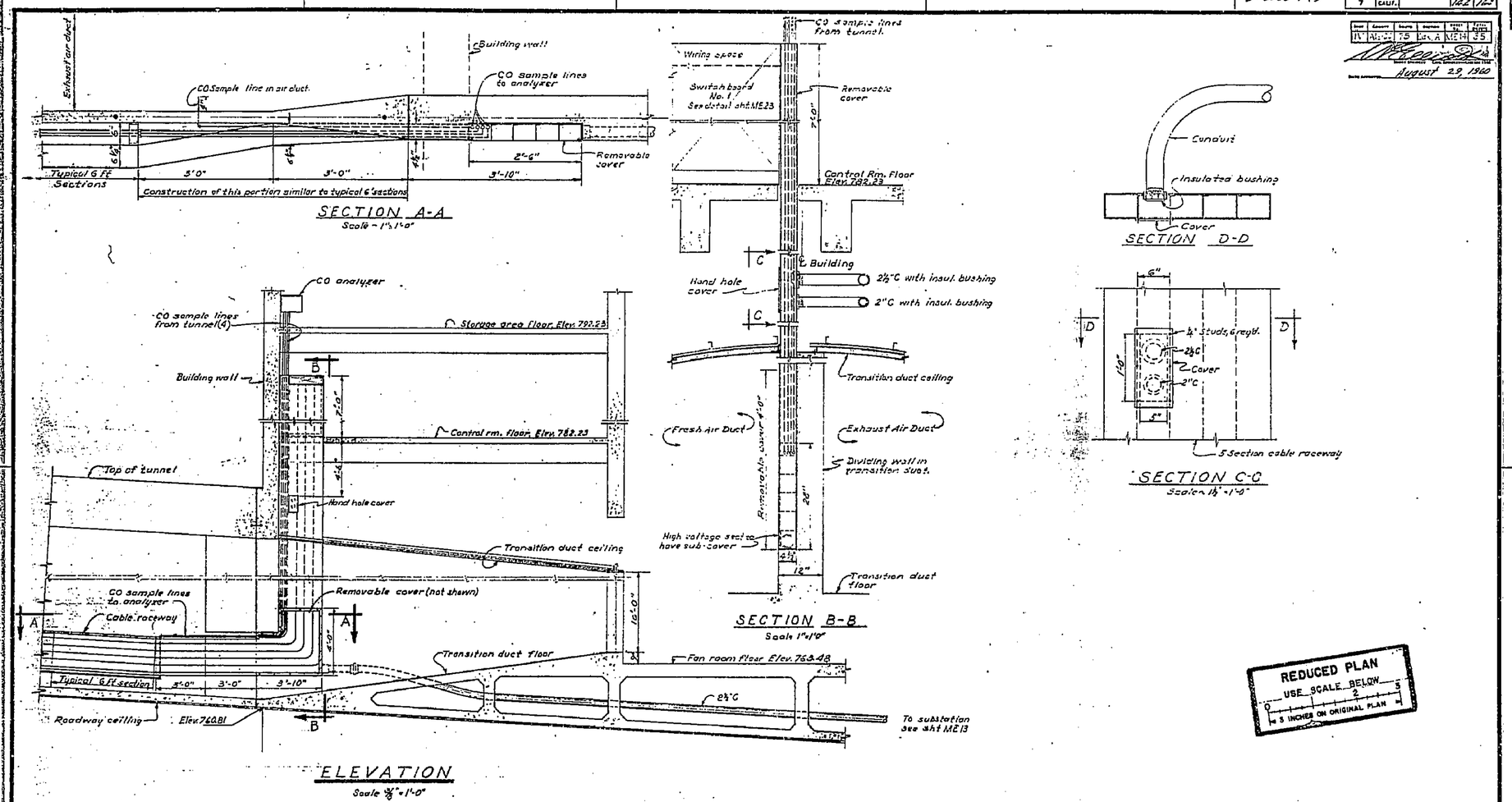
DATE 4-9-82 | SIGNATURE Donald Blackford | TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-55-70

ClibPDF - www.fastio.com

U-0039-1(1)




REDUCED PLAN
USE SCALE BELOW
0 1 2 3 4 5
5 INCHES ON ORIGINAL PLAN

August 29, 1960

DESIGN SECTION 11

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
CABLE RACEWAY IN BUILDING

SCALE - AS NOTED | BRIDGE 28-15 | FILE | DRAWING C-5979-102

16X

CONTRACT PLANS
Contract No. 61-4T/13C/13F
Document No. 40002510

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DATE 4-9-82 SIGNATURE Donald Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

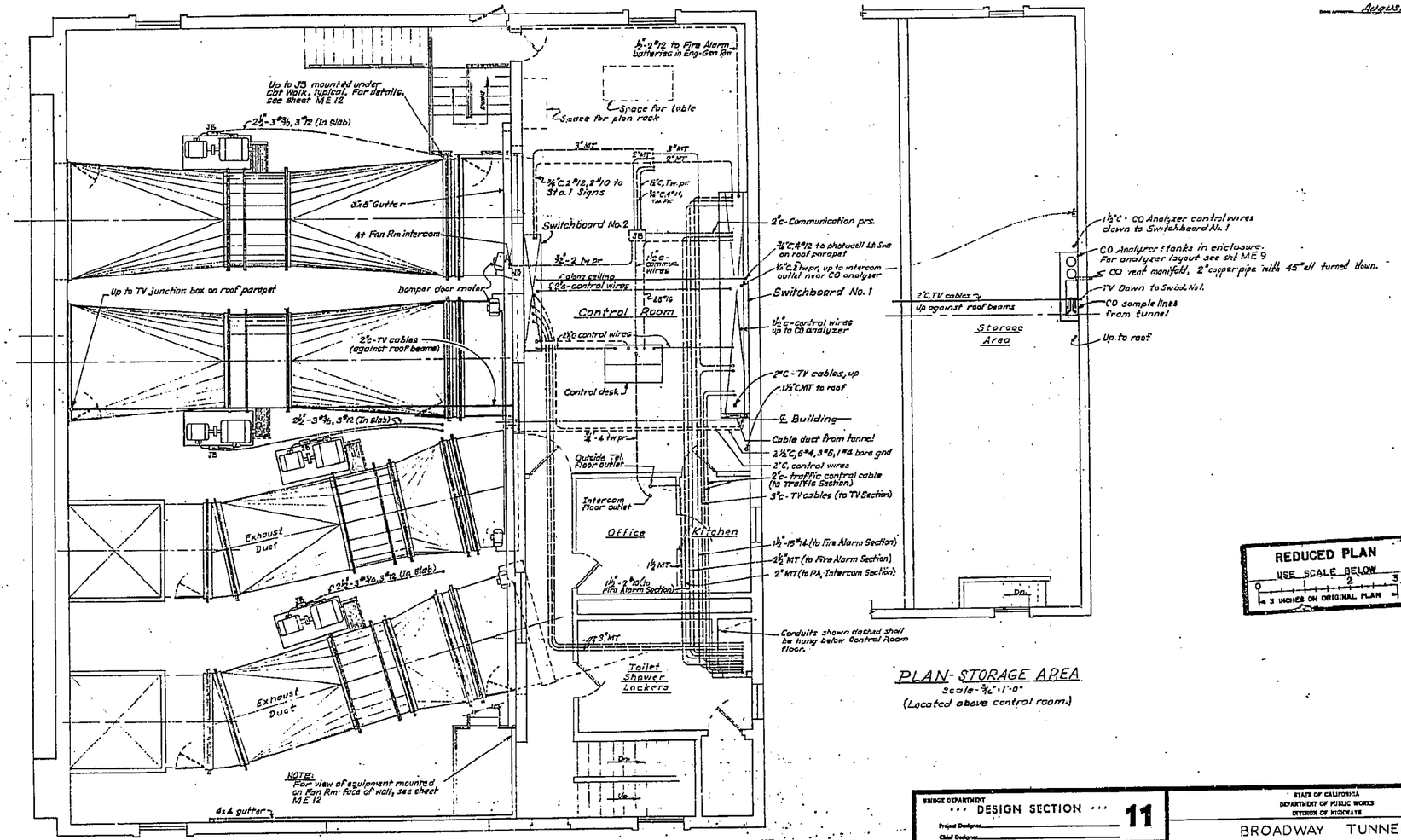
DAS-55-78

ClibPDF - www.fastio.com

U-0039-1(1)

| | | | | | |
|---|---|---|---|---|---|
| 7 | CALIF. | | | 143 | 165 |

August 29, 1960




PLAN
FAN ROOM & CONTROL ROOM
Scale: ¼"=1'-0"

NOTES: Power and Control conduits shown, for other conduits, see sheets ME 10 & ME 11

PLAN - STORAGE AREA
Scale - 3/16"=1'-0"
(Located above control room.)

REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

BRIDGE DEPARTMENT
DESIGN SECTION 11
Project Designer
Chief Designer
DESIGN
DETAILS R.W. Hills
QUANTITIES A.H. Mycker
SPECIFICATIONS
Approval Recommended by

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
CONTROL CONDUIT - WEST PORTAL BLDG.

SCALE - AS NOTED | BRIDGE 28-15 | FILE | DRAWING C-5973-133

16X

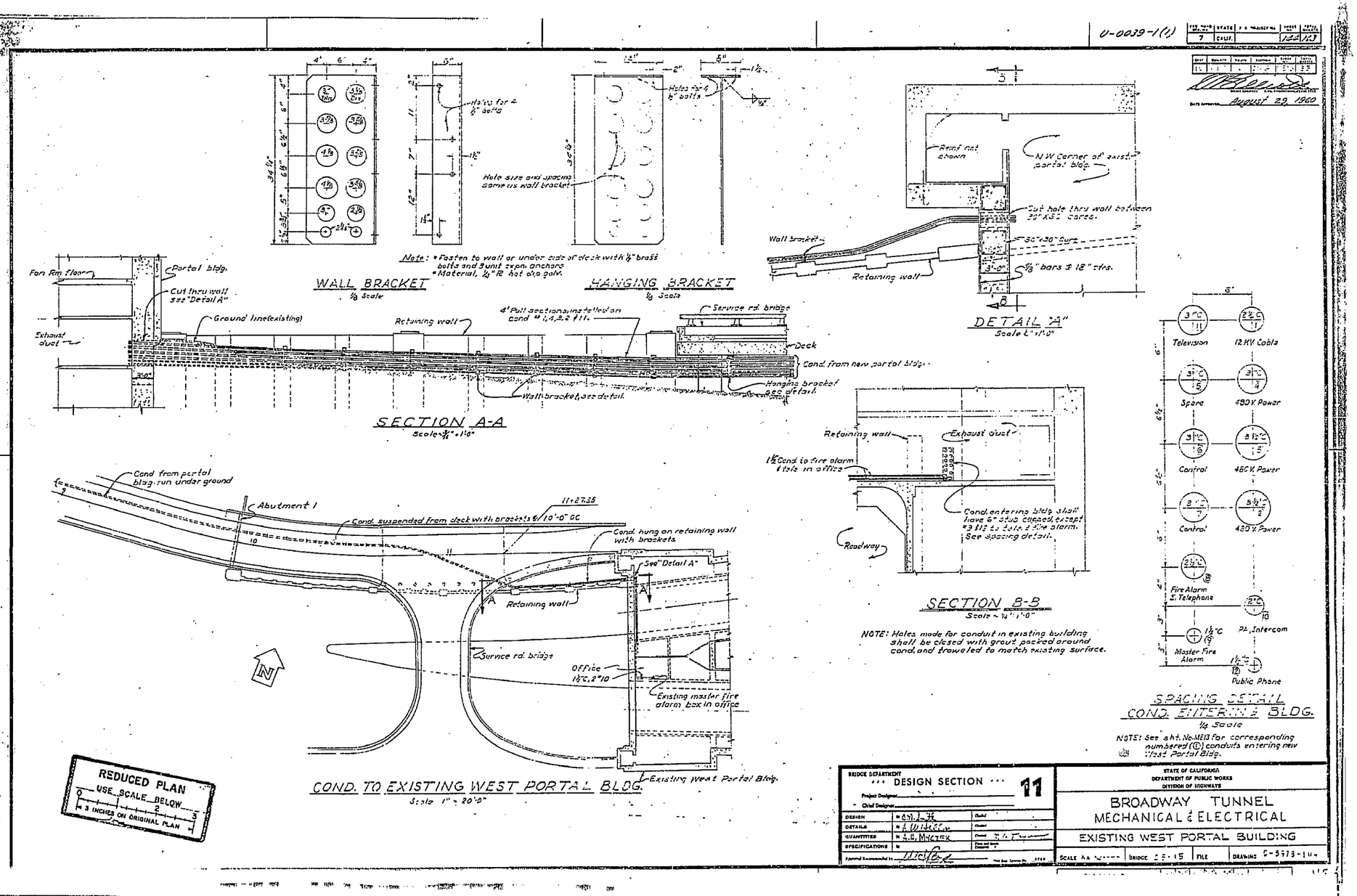
CONTRACT PLANS
Contract No. 61-4T13C13F
Document No. 4000 2510

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF TRANSPORTATION.

DATE 4-9-82 | SIGNATURE Donald Blackford | TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-55-78

ClibPDF - www.fastio.com




16X

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| 4-9-82 | Donald Blackford | SUPERVISOR OF MICROFILM SERVICES |

DAS-55-78

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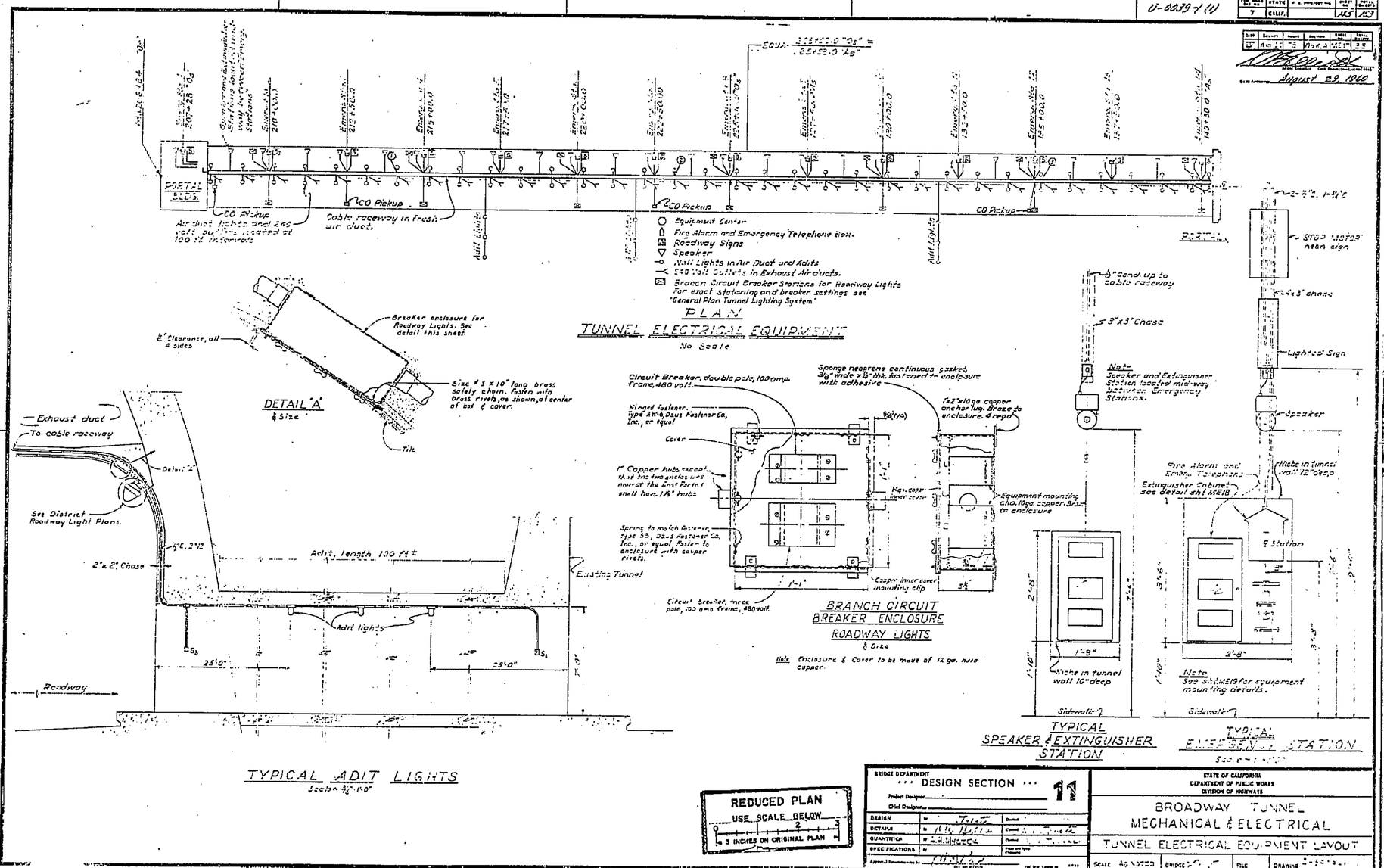
U-0039-1 (1)

| FED. ROAD DIST. NO. | STATE | F. A. PROJECT No. | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|
| 7 | CALIF. | | 145 | 149 |

August 29, 1960




REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

BRIDGE DEPARTMENT
DESIGN SECTION 11
Project Designer
Chief Designer
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
TUNNEL ELECTRICAL EQUIPMENT LAYOUT

SCALE AS NOTED | BRIDGE | FILE | DRAWING

16X

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|---|---|---|
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DAS-53-78

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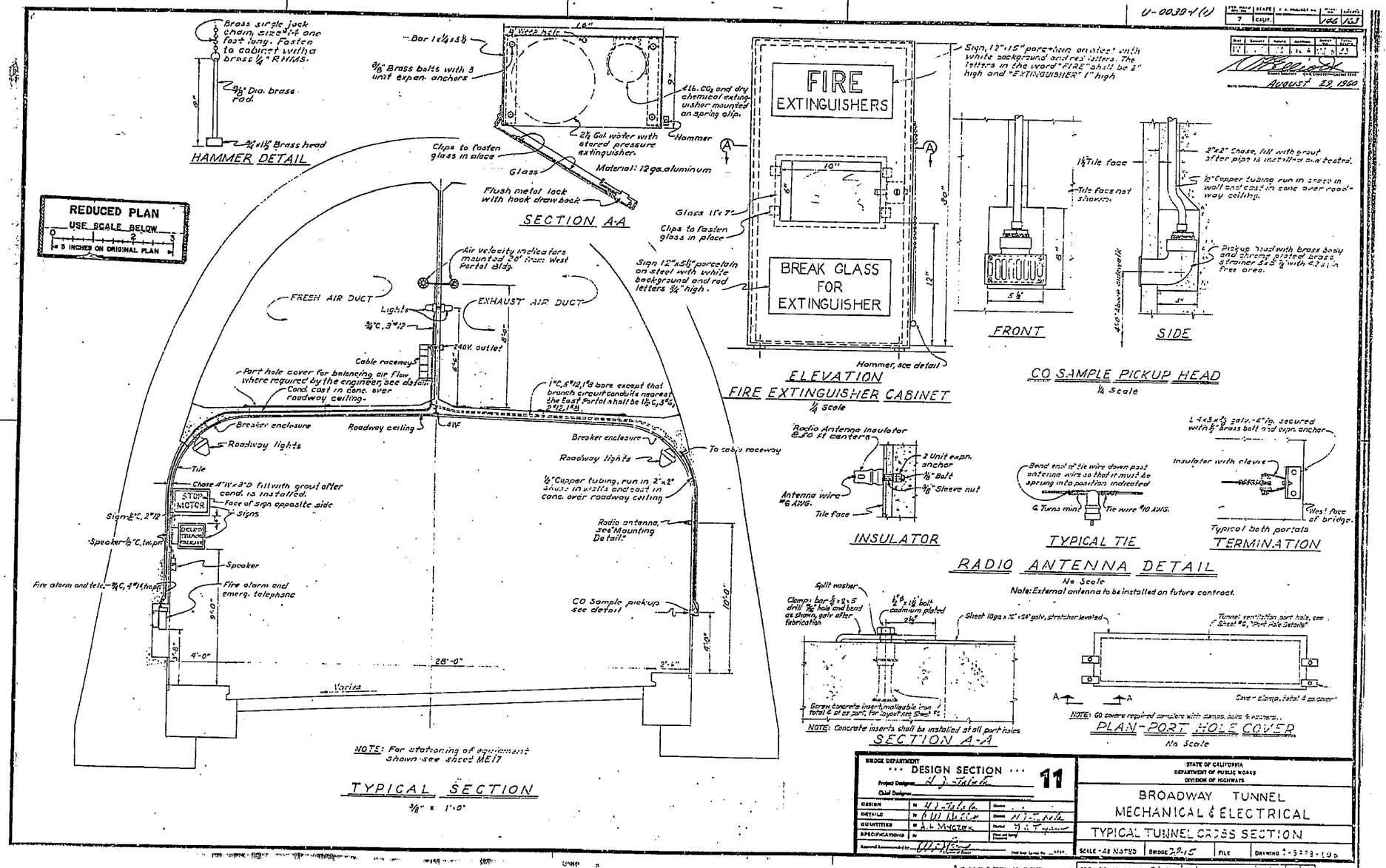


16X

CONTRACT PLANS
Contract No. 61-4T/3C13F
Document No. 40002510

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| DATE | SIGNATURE | TITLE |
|---|---|---|
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DAS-SS-78

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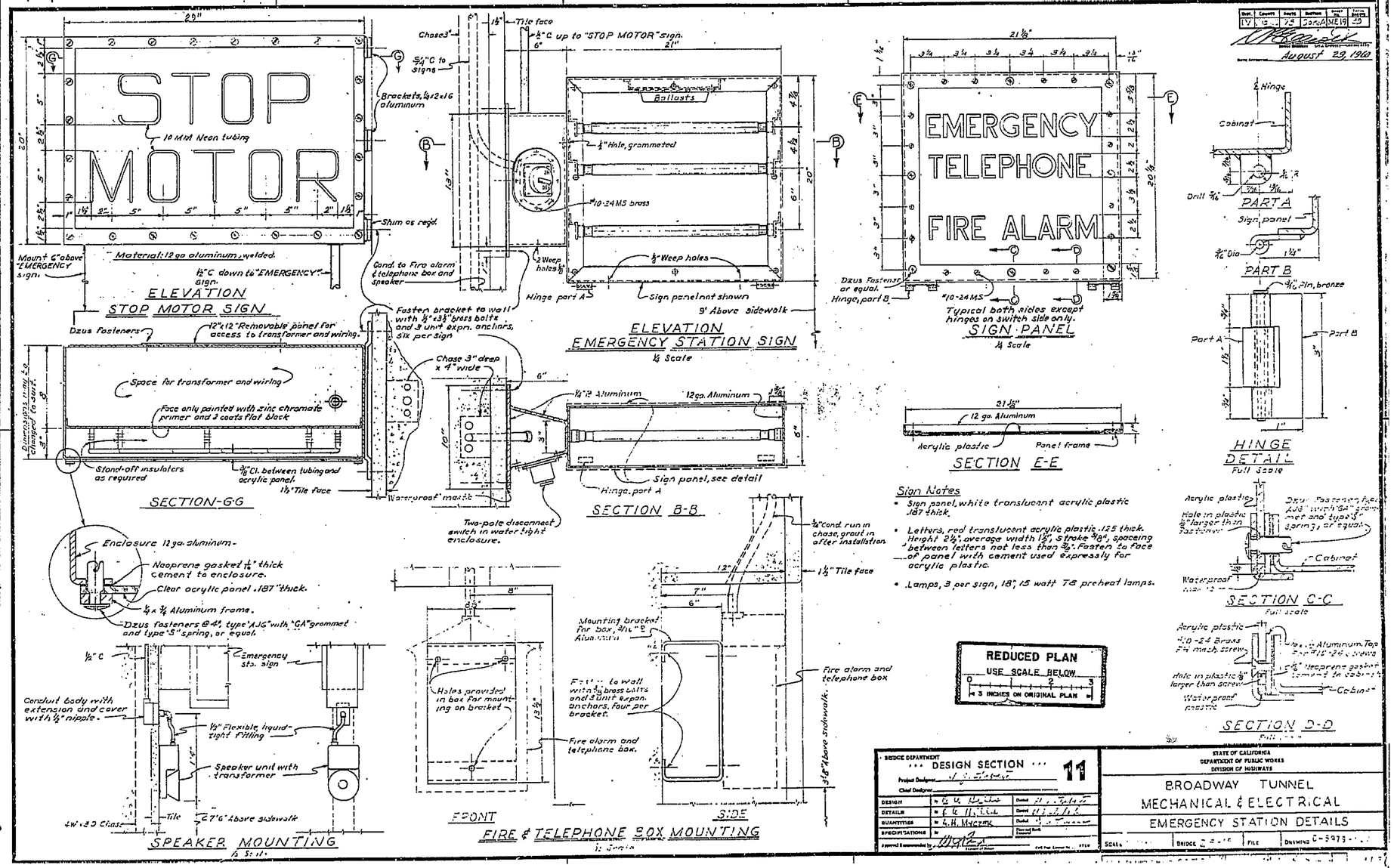
U-0039-1(1)

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| IV | LA | 74 | 30.4 | MEI9 | 35 |

August 29, 1960




Sign Notes

- Sign panel, white translucent acrylic plastic .187 thick.
- Letters, red translucent acrylic plastic .125 thick. Height 2 1/2", average width 1 1/2", stroke 3/8", spacing between letters not less than 3/8". Fasten to face of panel with cement used expressly for acrylic plastic.
- Lamps, 3 per sign, 18", 15 watt T8 preheat lamps.

REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

BRIDGE DEPARTMENT
DESIGN SECTION 11

| | | | |
|---|---|---|---|
| Project Designer | | | |
| Chief Designer | | | |
| DESIGN | | Dated | |
| DETAILS | | Dated | |
| QUANTITIES | H. H. Mycrak | Dated | |
| SPECIFICATIONS | | Checked Book | |

Approved Recommended by

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
EMERGENCY STATION DETAILS

SCALE | BRIDGE | FILE | DRAWING C-5973

16X

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Contract No. 61-4T/3C13F
Document No. 4000 2510

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DAS-65-78

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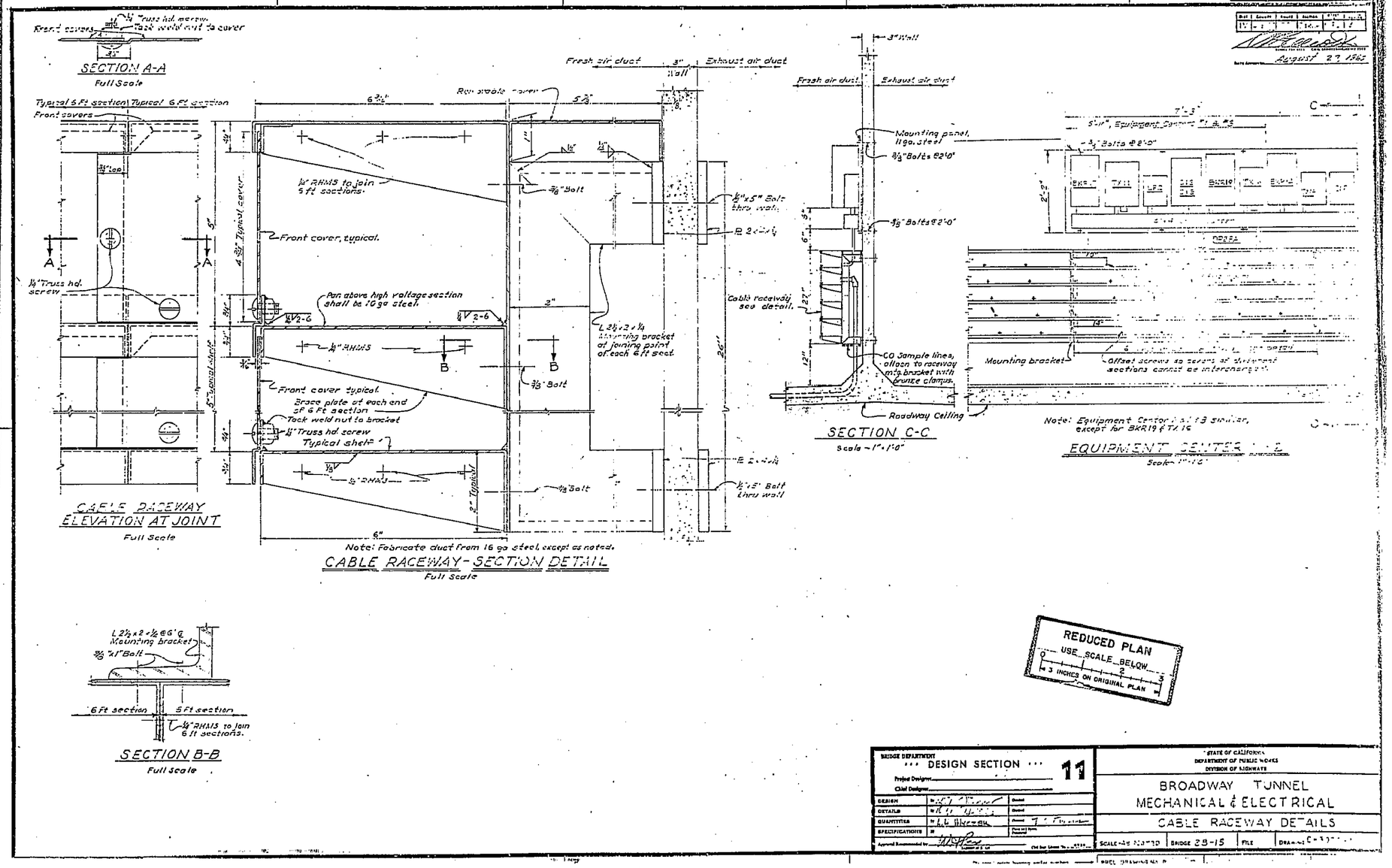
U-0039-1(1)




REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

BRIDGE DEPARTMENT
DESIGN SECTION 11
Project Designer
Chief Designer
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS
Approval Recommended by

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
CABLE RACEWAY DETAILS

SCALE | BRIDGE 28-15 | FILE | DRAWING

16X

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DAS-55-78

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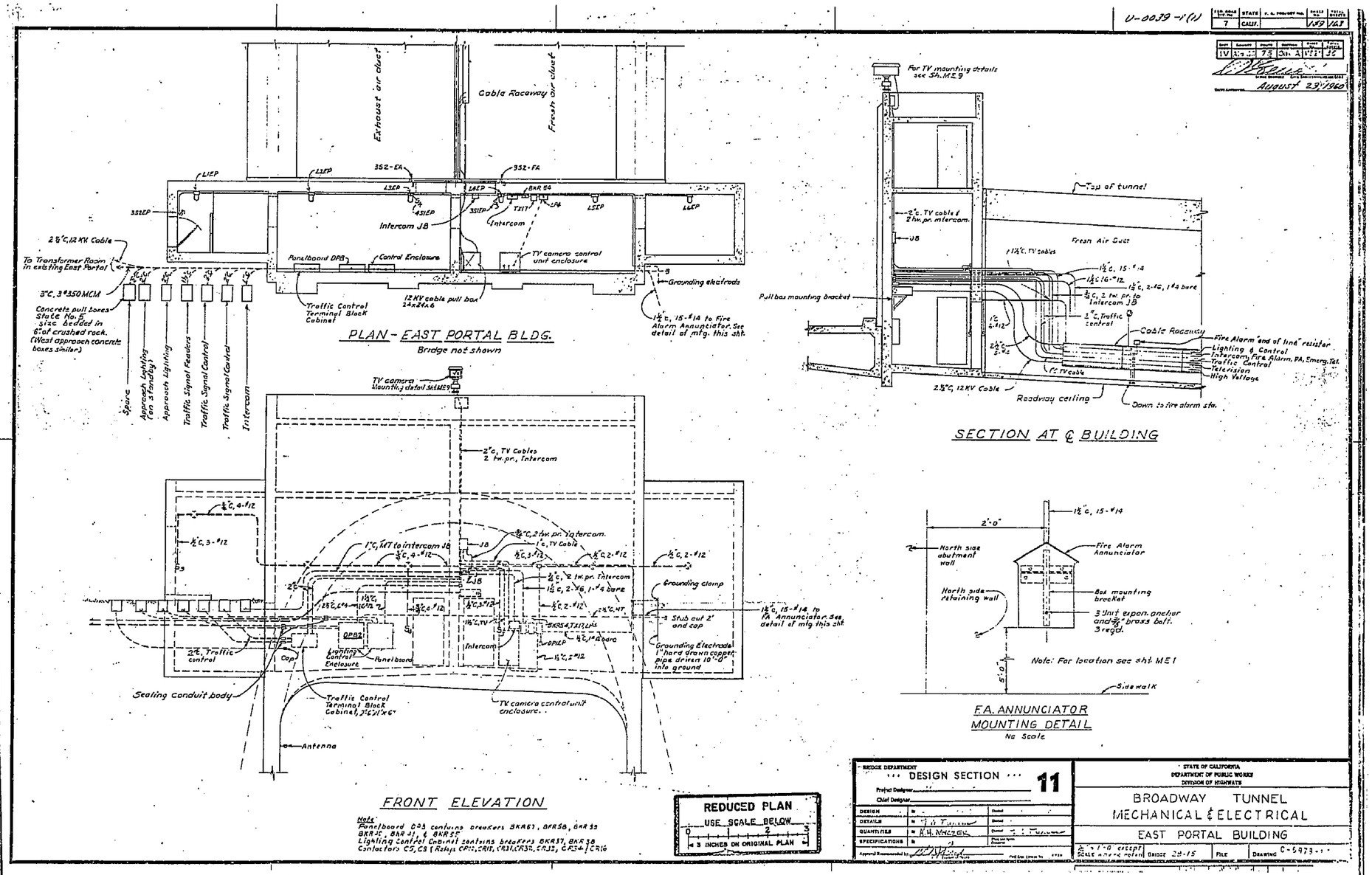


16X

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Document No. 4000 2510

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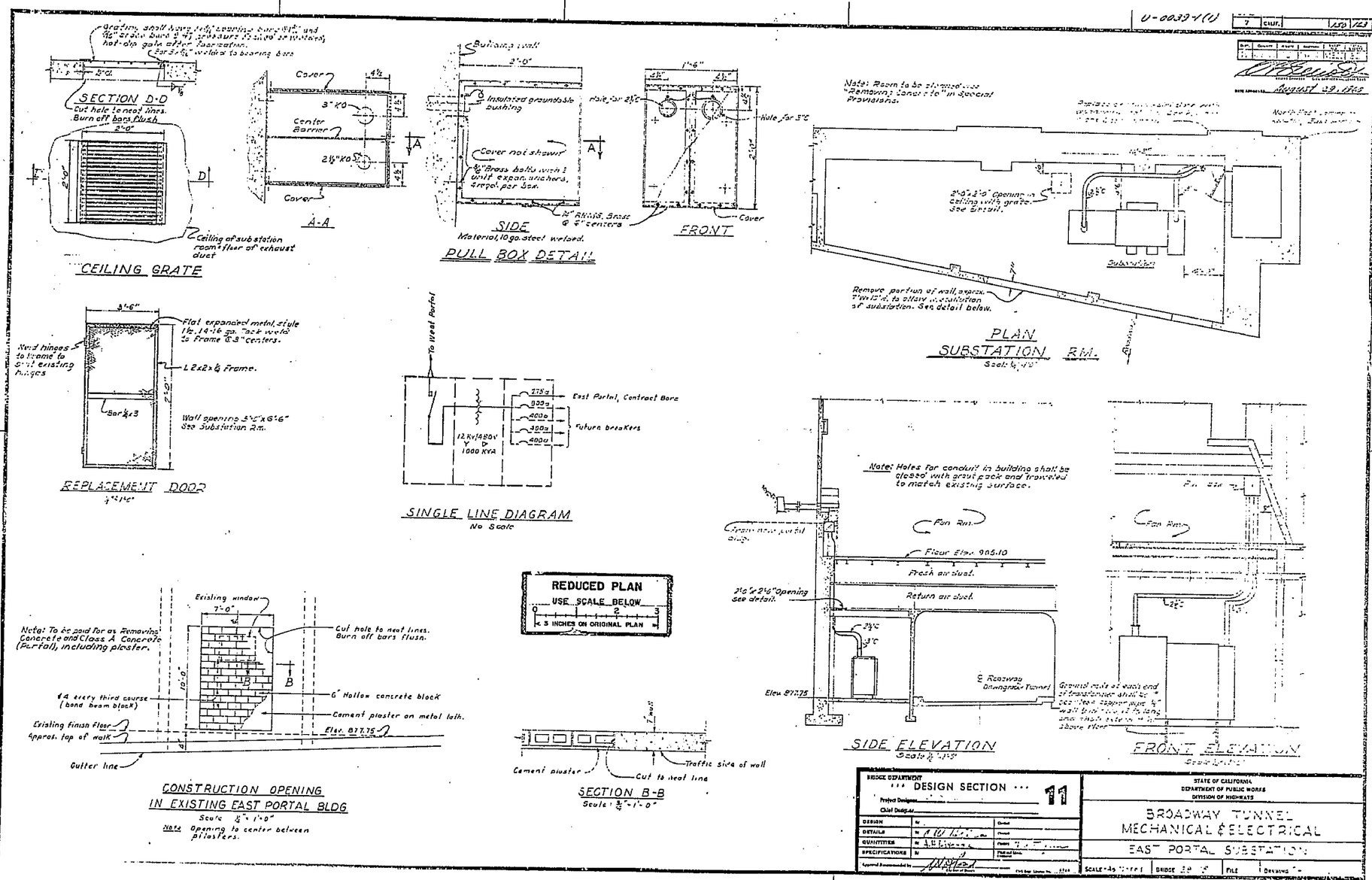
U-0039-1(1)




BRIDGE DEPARTMENT
DESIGN SECTION 11
Project Designer
Chief Designer
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY TUNNEL
MECHANICAL & ELECTRICAL
EAST PORTAL SUBSTATION

SCALE | BRIDGE | FILE | DRAWING

PREL. DRAWING NO.

16X

CONTRACT PLANS
Contract No. 61-4T/3C/3F
Document No. 40002510

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|---|---|---|
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DAS-55-78

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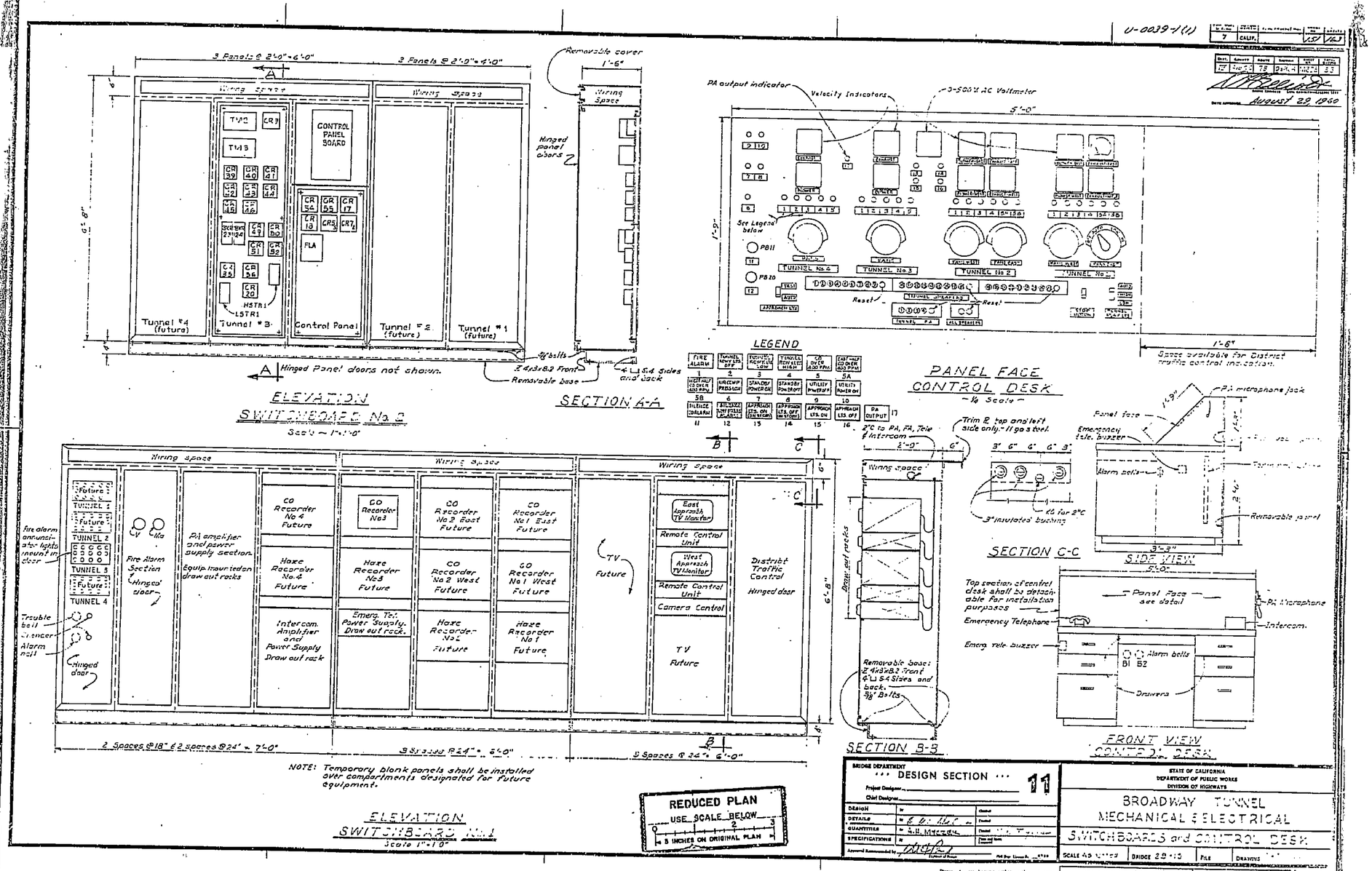


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Document No. 4000 2510

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DAS-55-70

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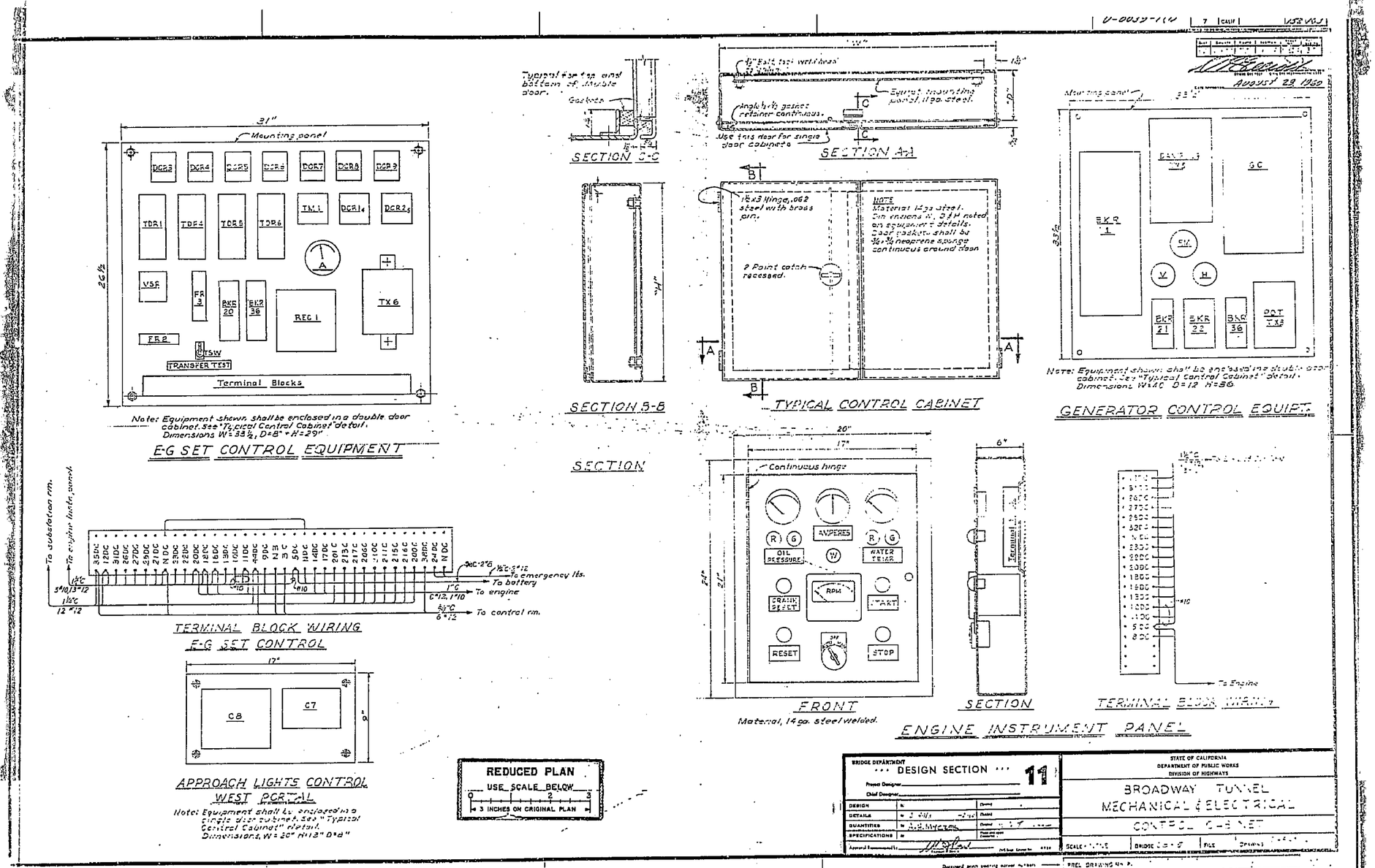


# 16X

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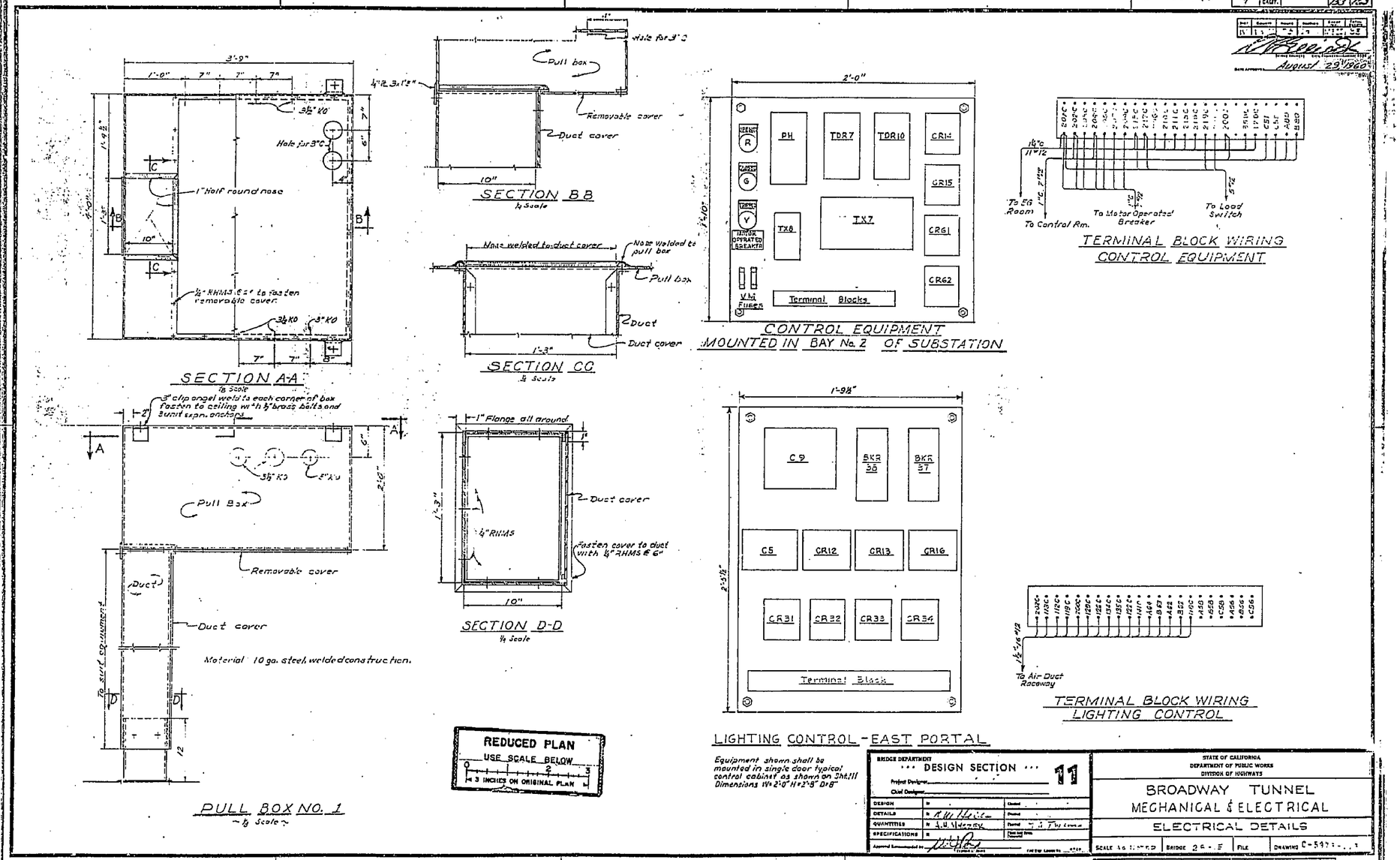
U-0039-1(1)

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DATE 4-9-82 SIGNATURE Donald Blackford TITLE SUPERVISOR OF MICROFILM SERVICES

DAS-55-78

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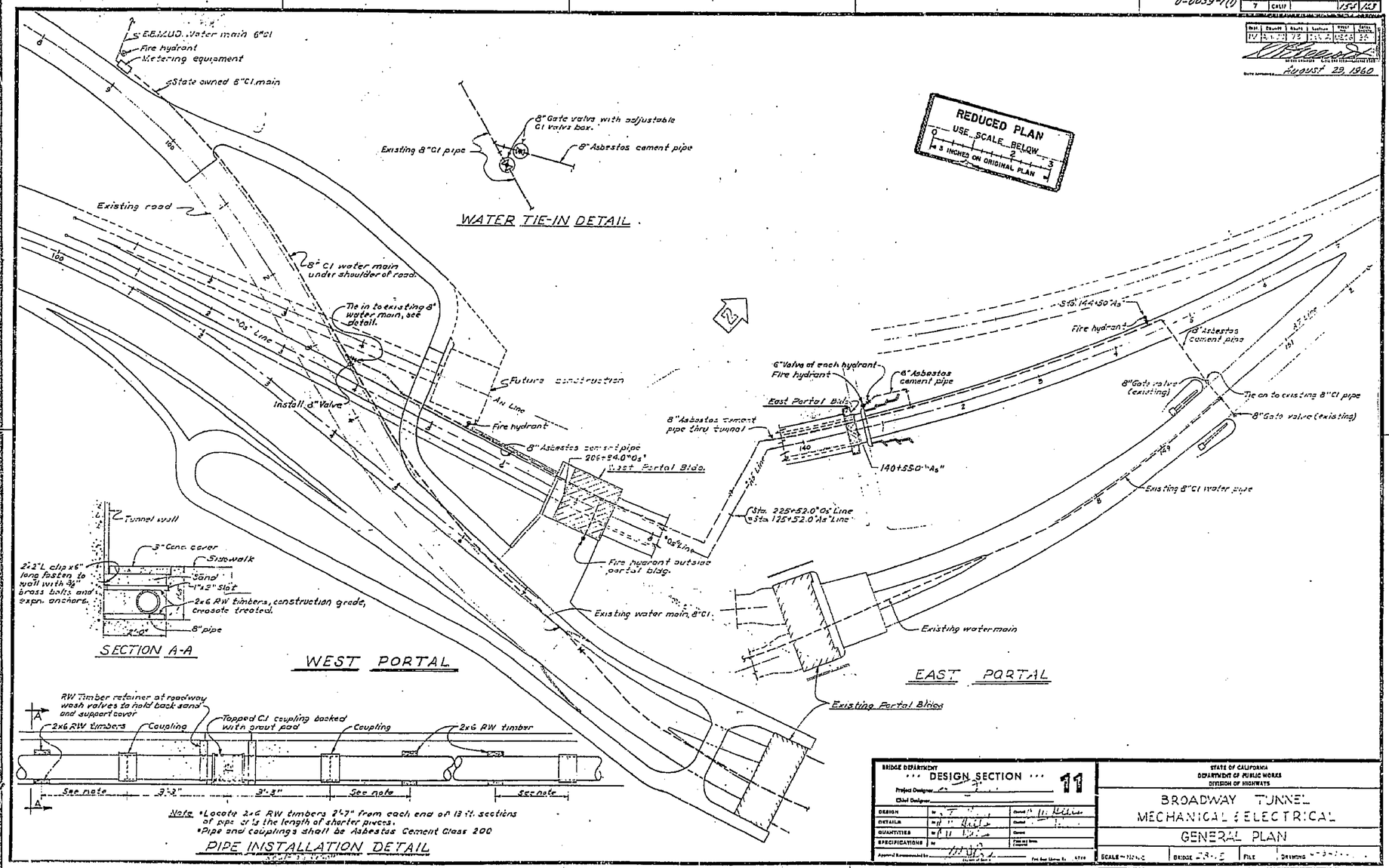


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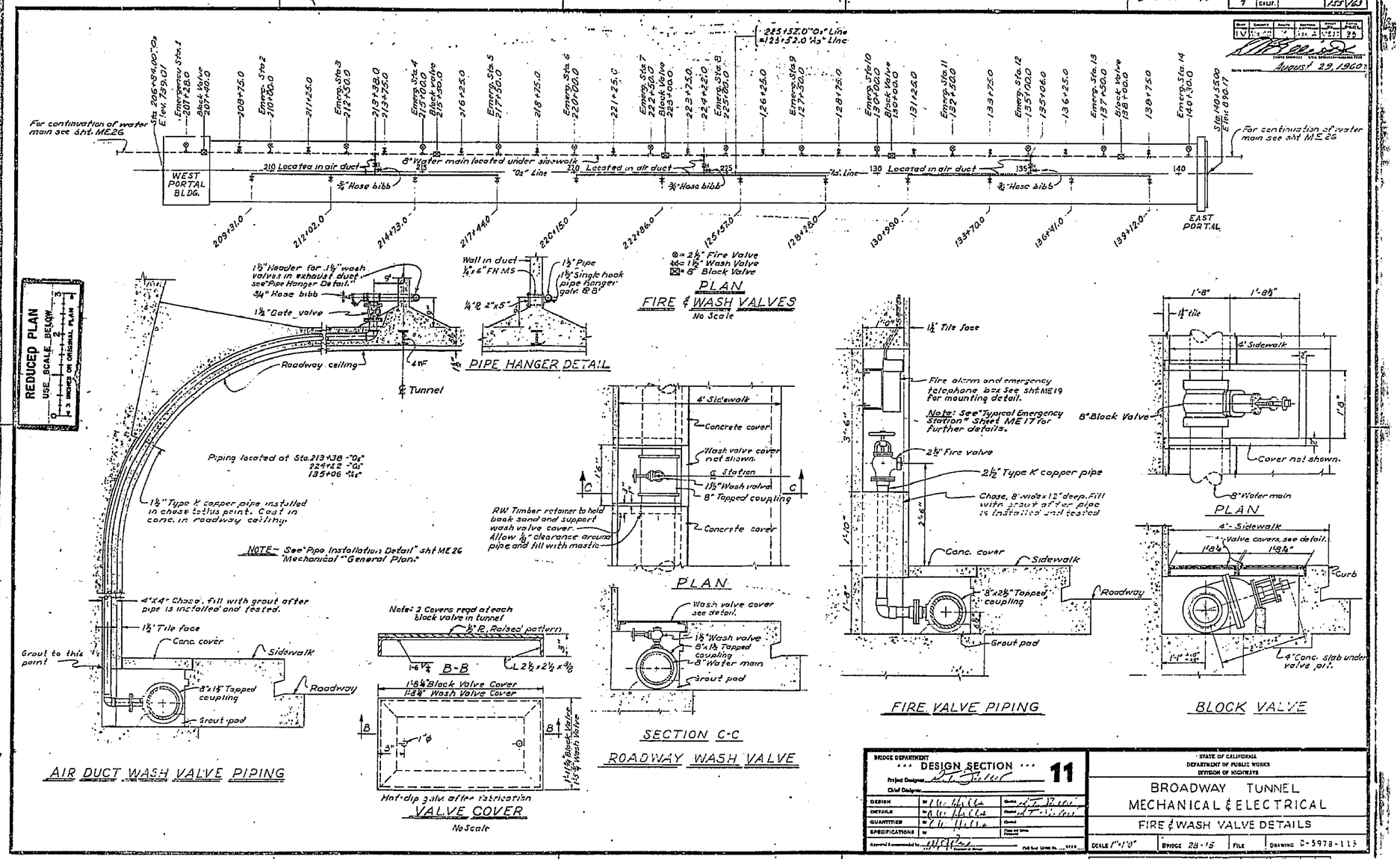


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DATE 4-9-82 | SIGNATURE Donald Blackford | TITLE SUPERVISOR OF MICROFILM SERVICES

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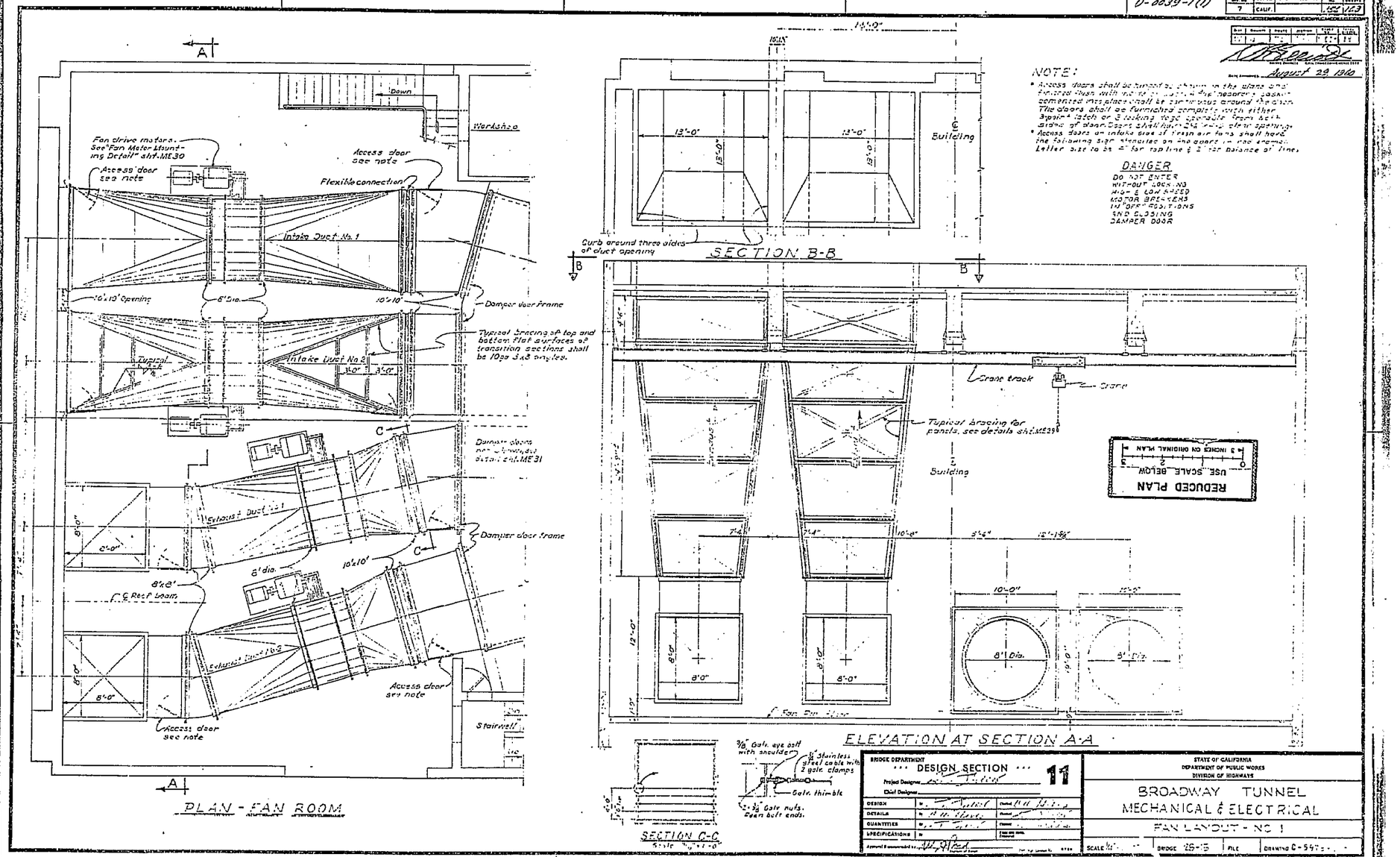


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Document No. 40002510

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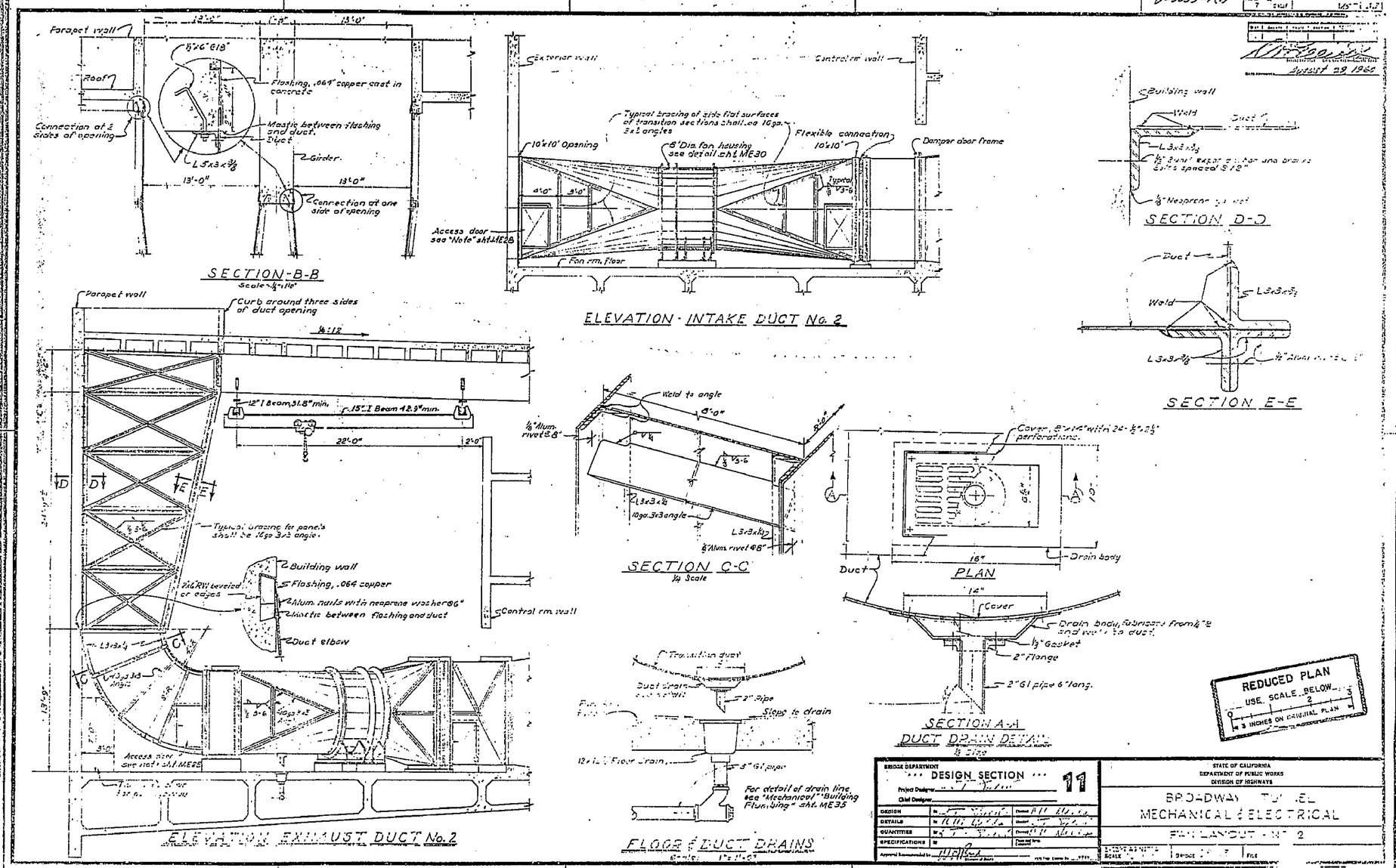


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DA3-55-70

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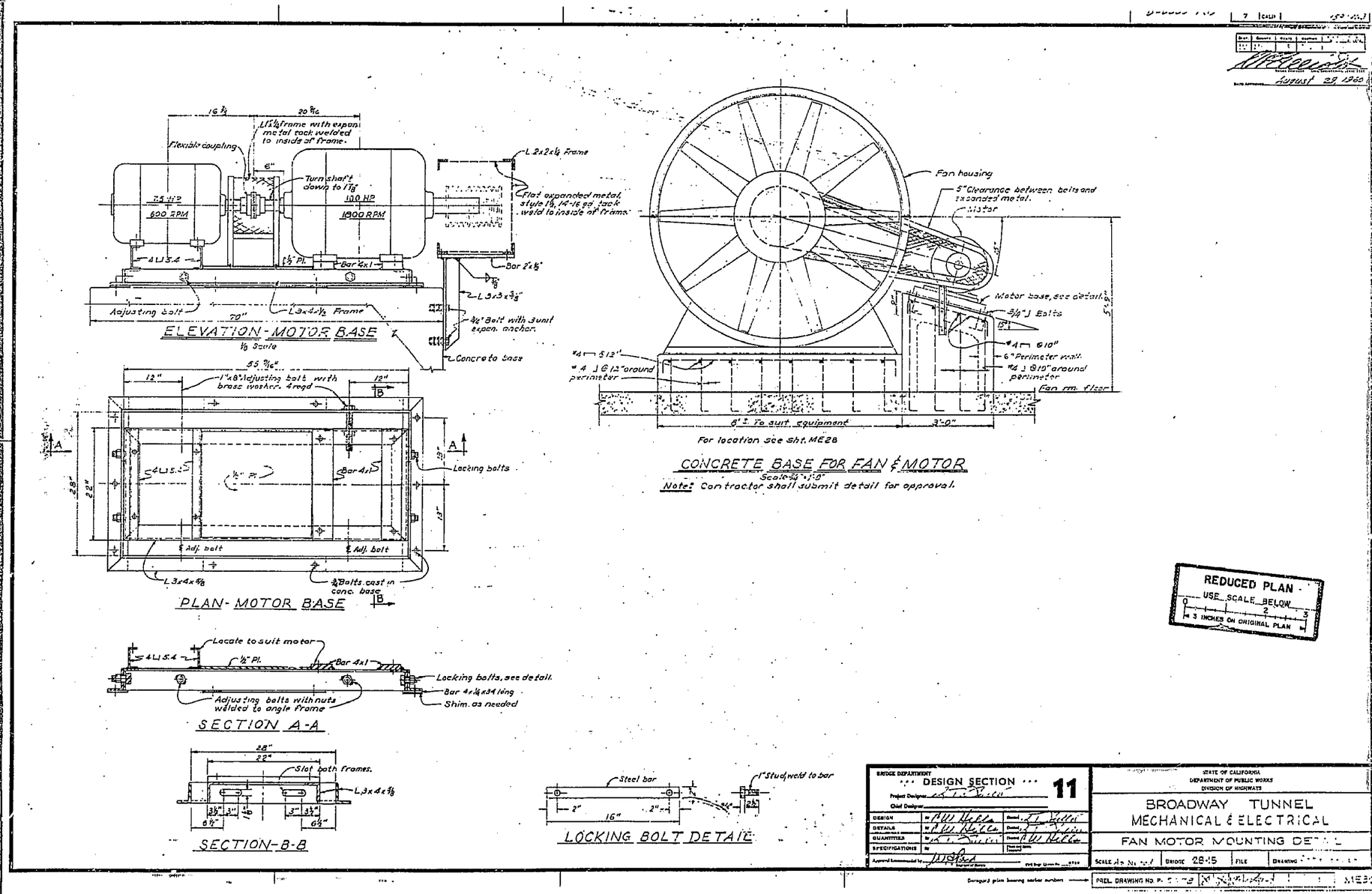


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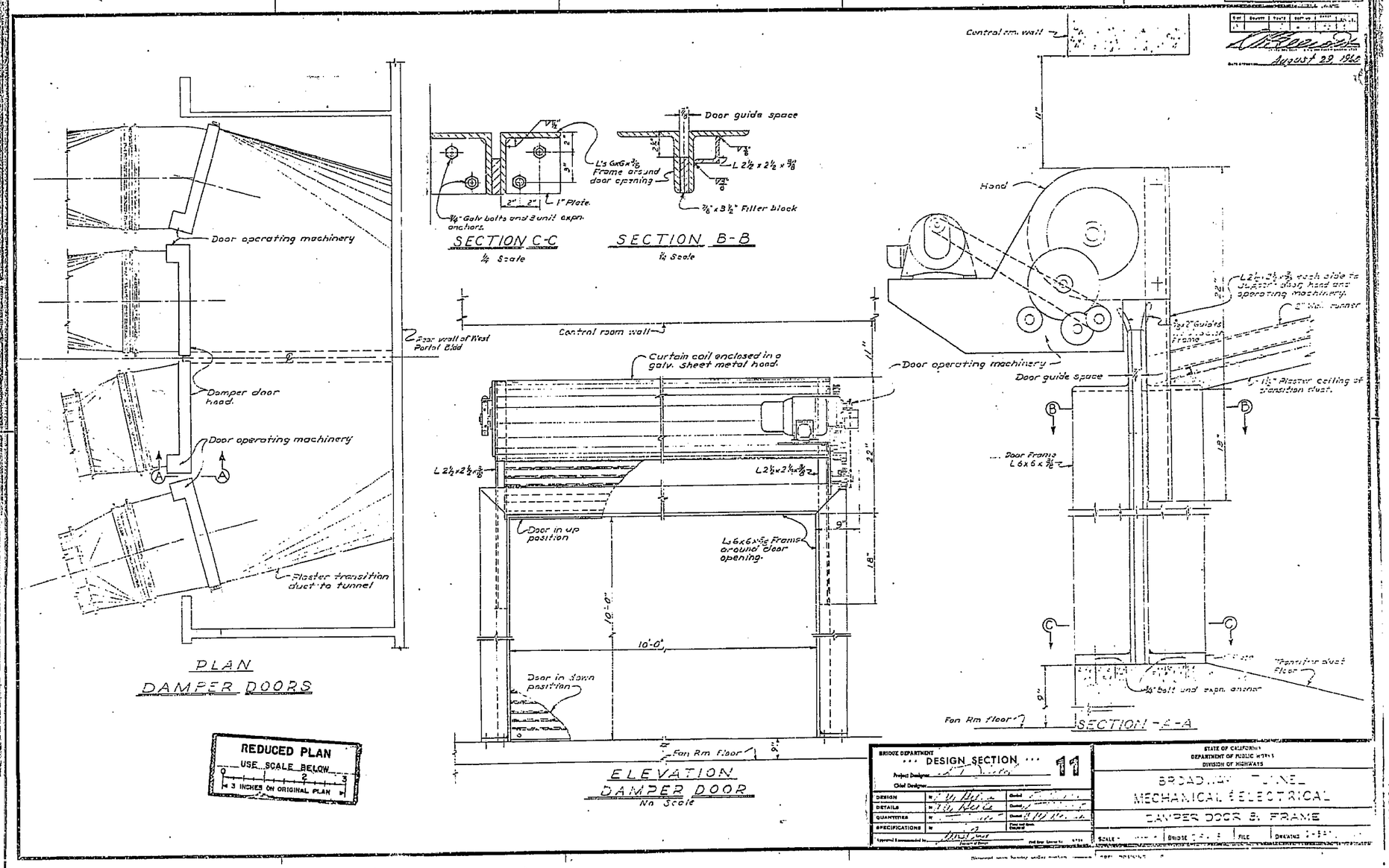
U-0039-1 (1)




REDUCED PLAN
USE SCALE BELOW
0 1 2 3
3 INCHES ON ORIGINAL PLAN

16X

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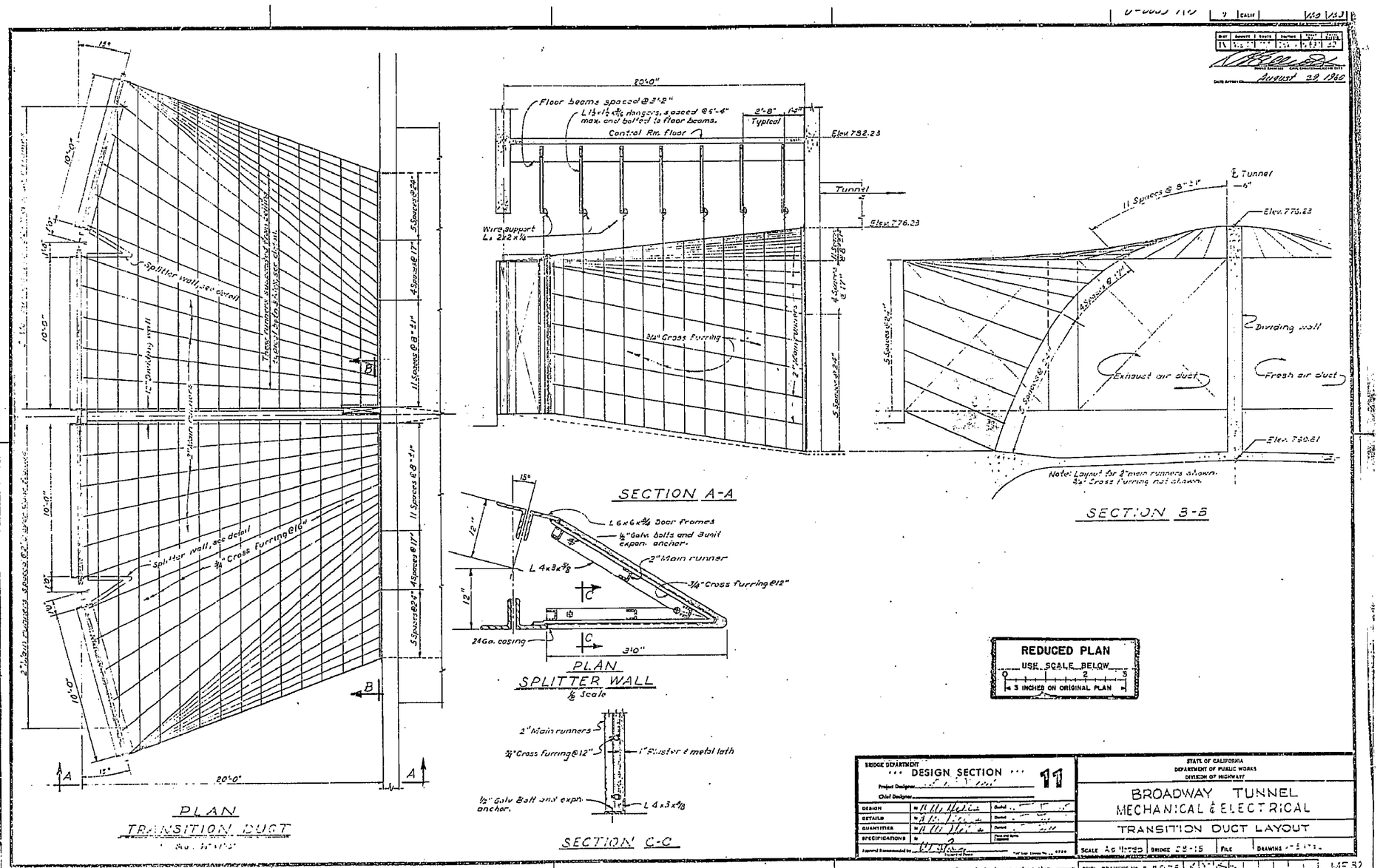


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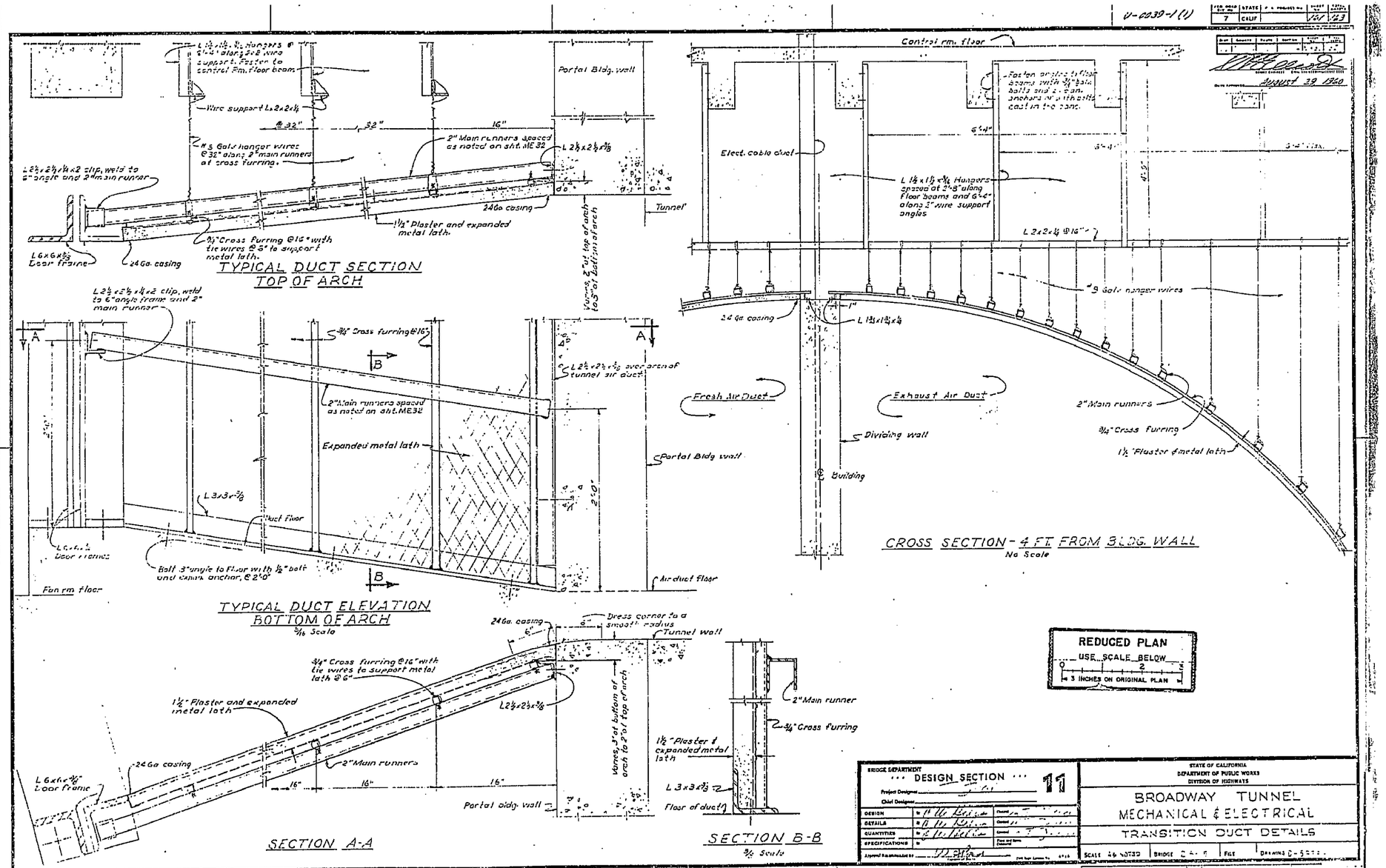


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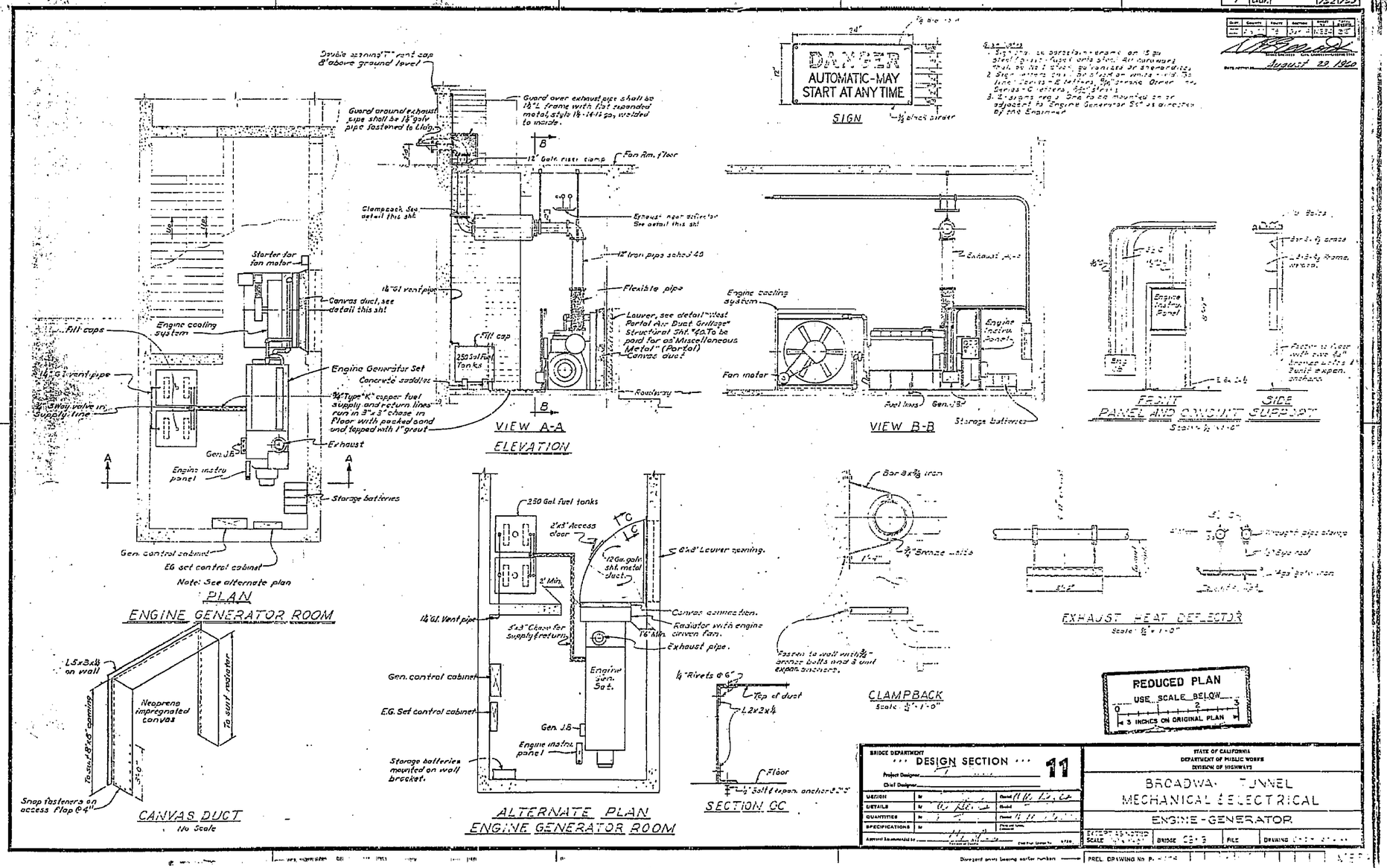


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DAS-SS-78

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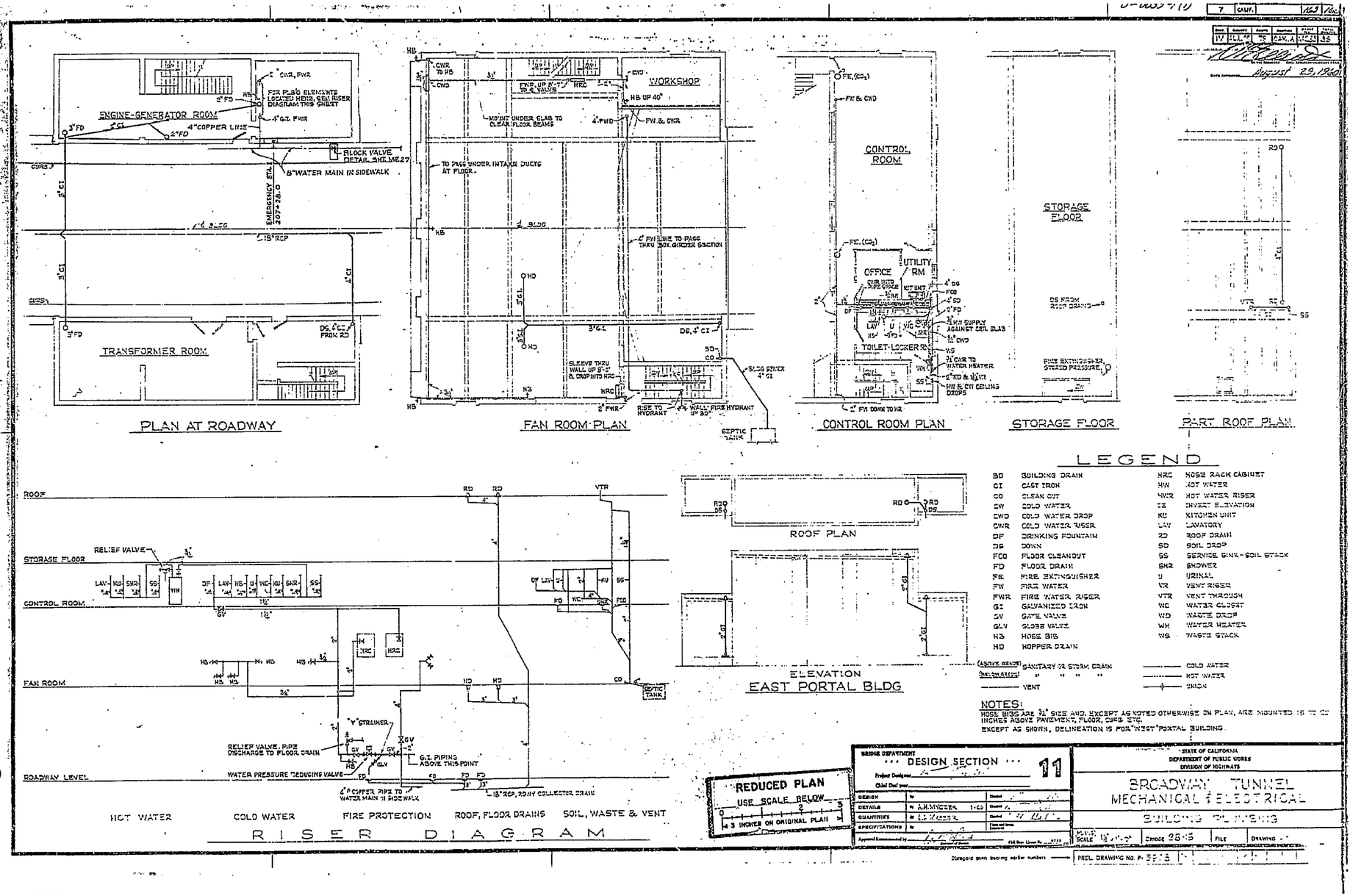


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DAS-55-78

ClibPDF - www.fastio.com

| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CAL. | | | | |

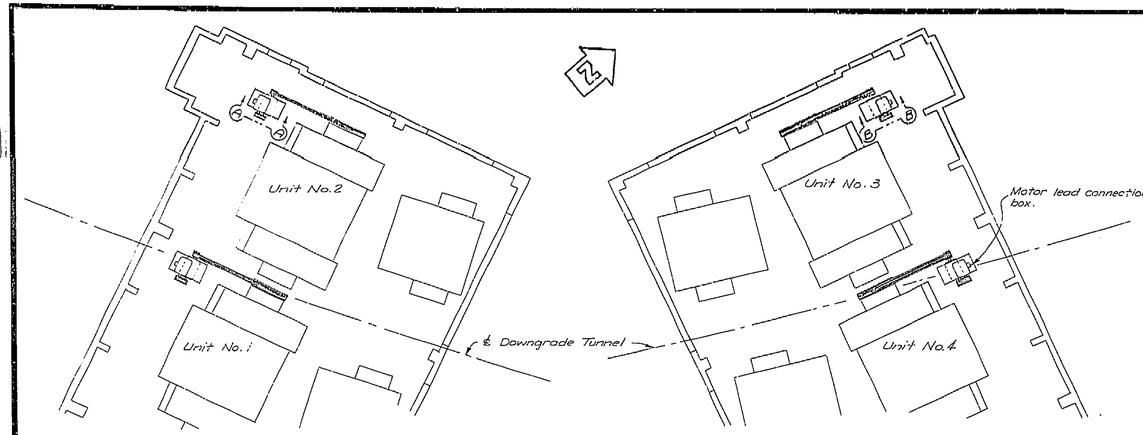
| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| IV | Ala | 03 | 49 Oak. | 1 | 2 |

Chief Engineer — Civil and Structural Engineer — Electrical Engineer

Date approved: Oct. 5, '52

Rte. 24
PM. 0.0

BRIDGE DEPARTMENT

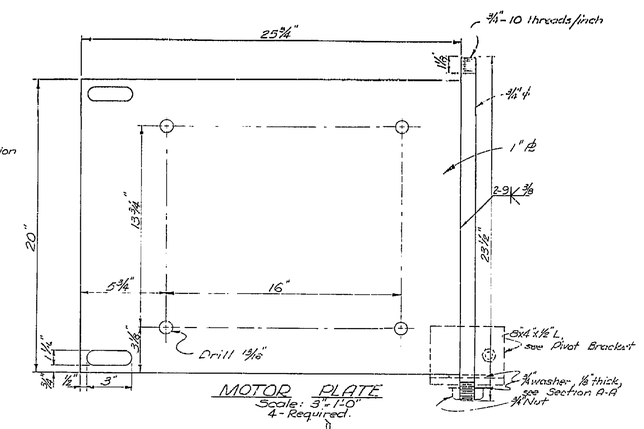



FAN ROOM - WEST PORTAL

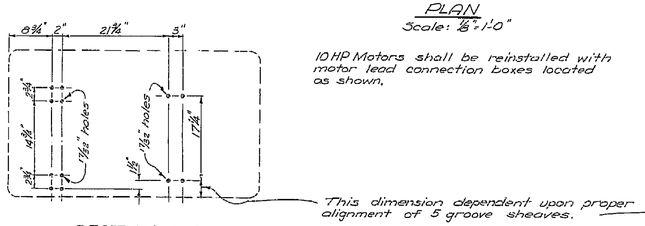
FAN ROOM - EAST PORTAL

PLAN
Scale: 1/8" = 1'-0"

10 HP Motors shall be reinstalled with motor lead connection boxes located as shown.

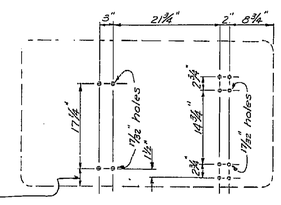



MOTOR PLATE
Scale: 3" = 1'-0"
4 - Required.

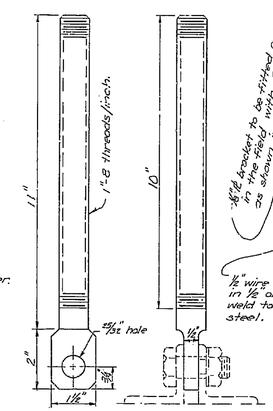



SECTION C-C

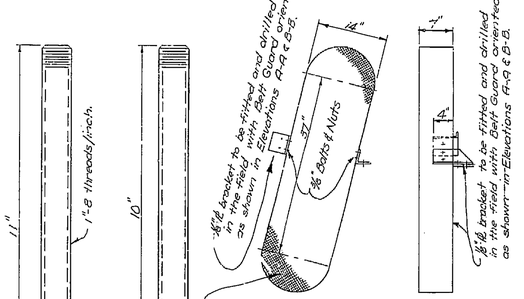
This dimension dependent upon proper alignment of 5 groove sheaves.




SECTION D-D



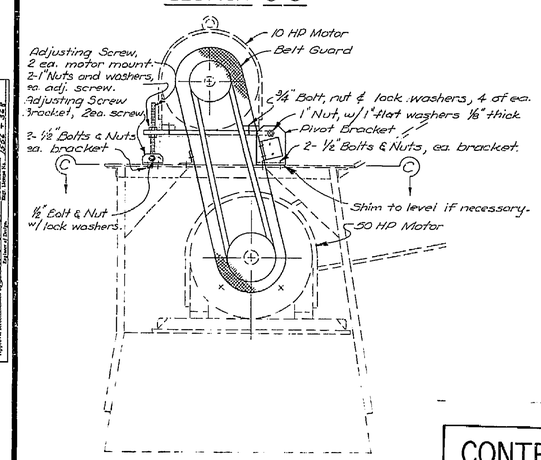

ADJUSTING SCREW
Scale: 6" = 1'-0"
8 - Required



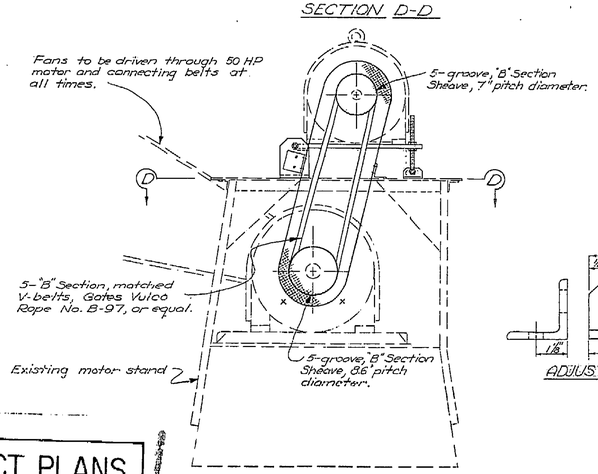

BELT GUARD
Scale: 1" = 1'-0"
2-Req'd as shown in Elevation A-A
2-Req'd as shown in Elevation B-B

## ORDER OF WORK FOR EACH FAN UNIT

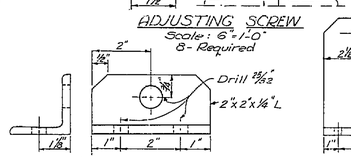
1. Connect 10 HP motor to fan and remove 50 HP motor.
2. Send out 50 HP motor for alterations.
3. Re-install 50 HP motor and connect to fan.
4. Remove 10 HP motor and send out for alterations. Install new adjustable motor mount.
5. Re-install 10 HP motor and connect to 50 HP motor.
6. Install new belt guard.
7. Be sure that controls of starters for the two motors of each fan are interlocked so that motors cannot be energized simultaneously.



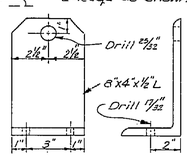

ELEVATION A-A
Scale: 1" = 1'-0"




ELEVATION B-B
Scale: 1" = 1'-0"




ADJUSTING SCREW BRACKET
Scale: 6" = 1'-0"
16 - Required




PIVOT BRACKET
Scale: 3" = 1'-0"
8 - Required

Selected by: [illegible] Date Status:
DESIGN — By: W.H.H. 10-52 — Checked: R.E.P. 10-52
DETAILS — By: R.E.P. 10-52 — Checked: W.H.H. 10-52
QUANTITIES — By: [illegible] — Checked: [illegible]
SPECIFICATIONS — By: [illegible] — Page by Spec. [illegible]
Approx. Recommended by: [illegible] — Bridge Maintenance Engineer: [illegible] — Date: 1-56 + 1-58

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY LOW LEVEL TUNNEL
DOWNGRADE TUNNEL EXHAUST FANS

FAN DRIVE CHANGES

| SCALE As Shown | BRIDGE 28-15 R/L | FILE E-28 | DRAWING DL-495-1 |
|---|---|---|---|

PREL. DRAWING NO. P-495 2

CONTRACT PLANS
Contract No. ——
Document No. 4002602

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

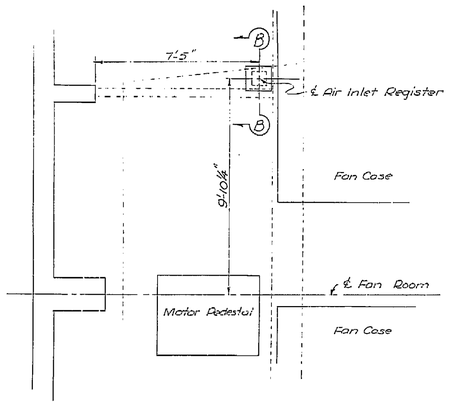
DATE 4/11/72 SIGNATURE [illegible] TITLE Sr. Engr.

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
ClibPDF - www.fastio.com

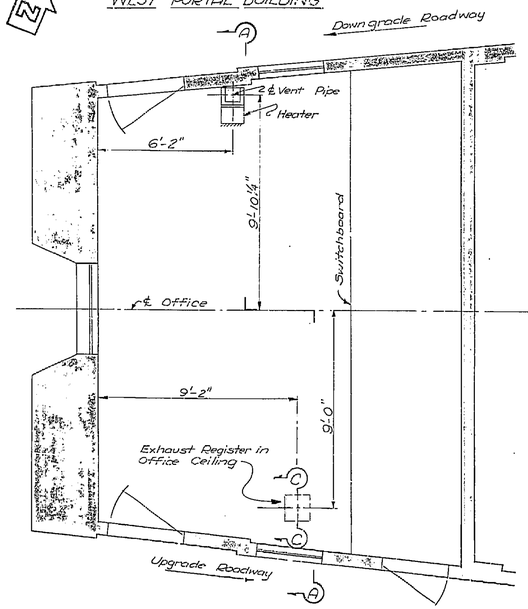
| FED. ROAD DIV. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | CAL. | | | | |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | Ala CC | 7 | Oak. A | 2 | 2 |

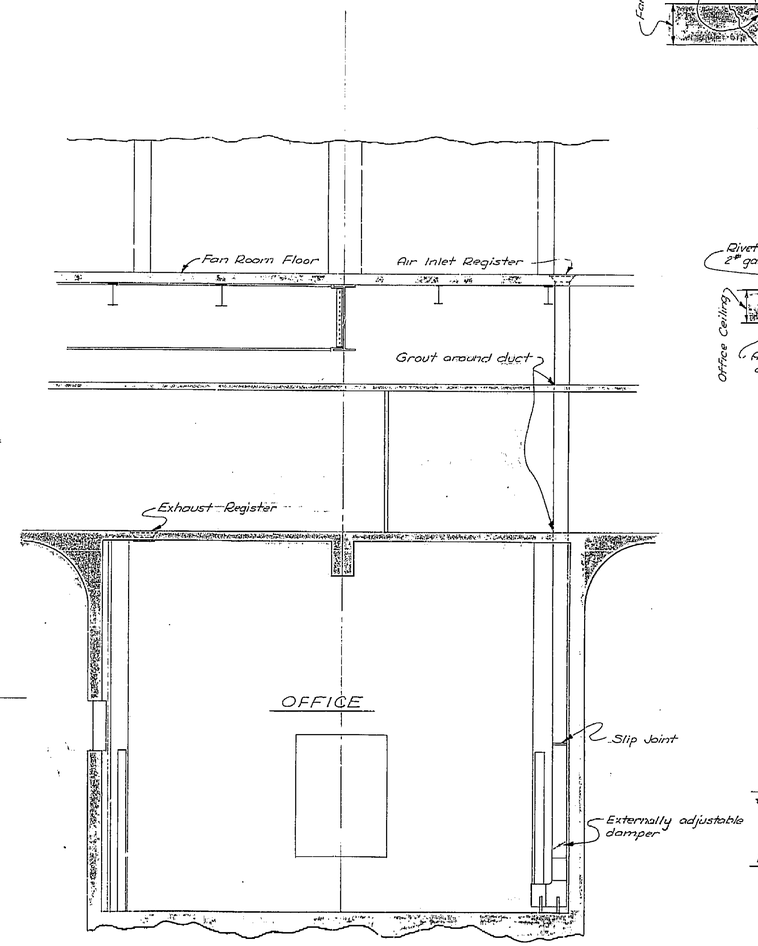
Stewart Mitchell
DIV. OF BRIDGES ENGINEER—LICENSE 2436
Date approved Oct. 9 '52



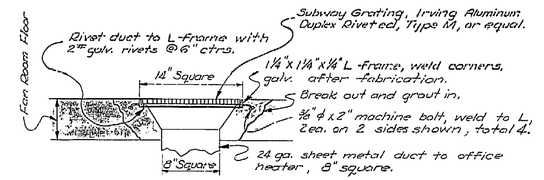

FAN ROOM PLAN
WEST PORTAL BUILDING



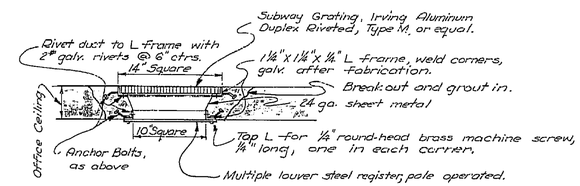

OFFICE PLAN



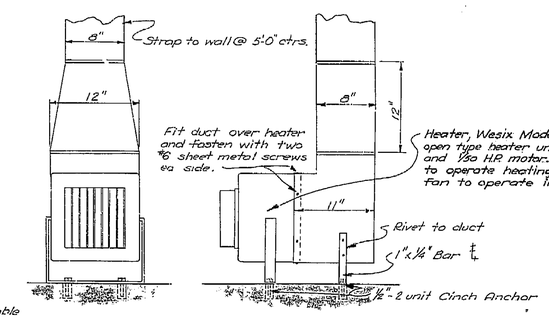

SECTION A-A




SECTION B-B
Scale: 1½" = 1'-0"




SECTION C-C
Scale: 1½" = 1'-0"




FRONT VIEW SIDE VIEW
HEATER & VENT
Scale: 1½" = 1'-0"

| Submitted for: | | | | |
|---|---|---|---|---|
| DESIGN | V. W. Yeh | 10-52 | Date | 2-17-53 |
| DETAILS | R. Ditt | 10-52 | Date | 11-7-52 |
| QUANTITIES | | | Date | |
| SPECIFICATIONS | | | By | |
| | | | Date | |
| Approved for construction | | | | |

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BROADWAY LOW LEVEL TUNNEL

OFFICE VENTILATION

| SCALE | BRIDGE | FILE | DRAWING |
|---|---|---|---|
| 3/8" = 1'-0" or as noted | 28-15 P/L | E-28 | DL-495-2 |

PREL. DRAWING NO. P-495 | 3

BRIDGE DEPARTMENT

CONTRACT PLANS
Contract No. ——
Document No. 4/0002602

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

DATE 4/11/72 SIGNATURE [illegible] TITLE [illegible]

MICROFILM - STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS - MICROFILM
SCALE 1" = 50'
SCALE 1" = 20'
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