#EL612-40

D.P.W. DIST. NO.	DRAWING	F.A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST	COUNTY	ROUTE	SECTION			
IV	Alameda	24	5.2/L3	1	38	

STATE OF CALIFORNIA
KEY MAP

8-24-66

INDEX OF SHEETS

Sheet No.	1	Title Sheet
" "	2	General Plan and Index
" "	3-38	Caldecott Tunnel–Approach Lane Control

STATE OF CALIFORNIA
HIGHWAY TRANSPORTATION AGENCY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

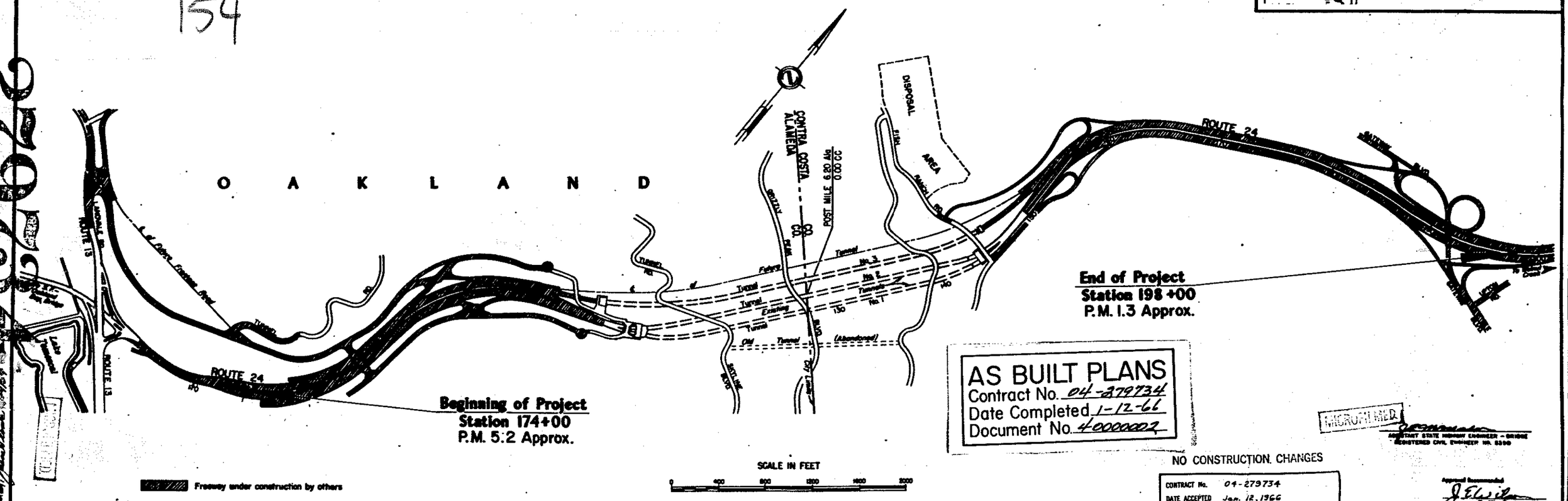
PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

In Alameda and Contra Costa Counties in and near Oakland
at the east and west approaches of Caldecott Tunnel

(being the detail plans of a portion of the route for the State highway adopted by the California Highway Commission December 3, 1957 and declared a FREEWAY by resolution of the California Highway Commission on May 22, 1958)

MICROFILMED

File ID
154



Length of Project: 1.8 Miles

AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002

MICROFILMED

NO CONSTRUCTION CHANGES

CONTRACT No. 04-279734
DATE ACCEPTED Jan. 12, 1966
AS BUILT
RESIDENT ENGINEER D.R. Holm
REVISIONS BY... DATE
DELINEATED BY DATE
DEL
CHECKED BY DATE

ASSISTANT STATE HIGHWAY ENGINEER – BRIDGE
REGISTERED CIVIL ENGINEER No. 5340

Approval Recommended
J. E. Wilson
Traffic Engineer
August 31, 1964
State Highway Engineer
Registered Civil Engineer No. [illegible]

Approval recommended, Jan. 8, 1964

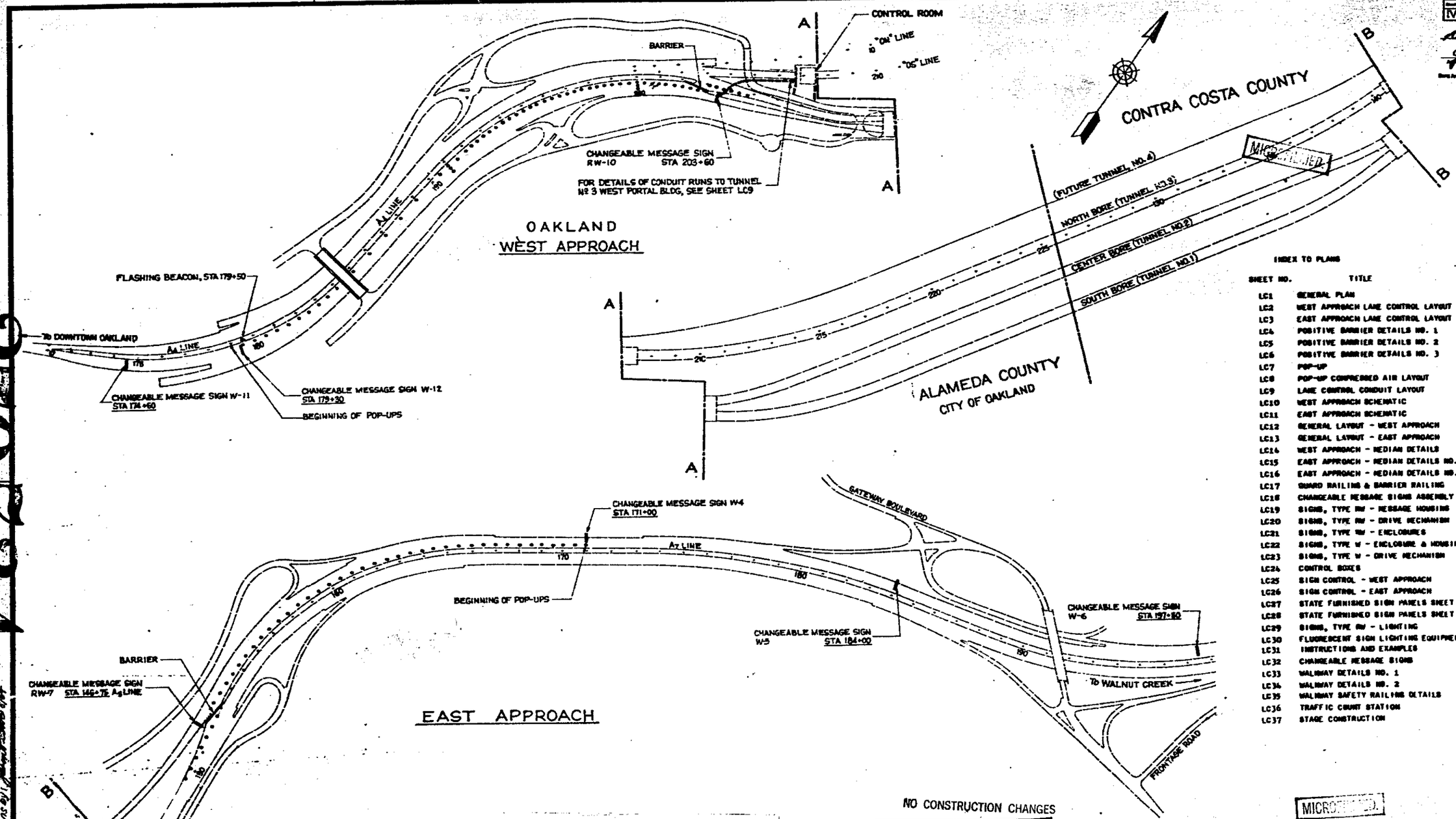
Form No. 1014-12

Contract No. 04-279734

(Old IV-ALA,CC-75-OAK,A)

DIST.	COUNTY	ROUTE	POST MILE	SHEET	TOTAL SHEETS
IV	ALA.CC	24	2.4/3.3	2	38

August 31, 1964



INDEX TO PLANS

SHEET NO.	TITLE
LC1	GENERAL PLAN
LC2	WEST APPROACH LANE CONTROL LAYOUT
LC3	EAST APPROACH LANE CONTROL LAYOUT
LC4	POSITIVE BARRIER DETAILS NO. 1
LC5	POSITIVE BARRIER DETAILS NO. 2
LC6	POSITIVE BARRIER DETAILS NO. 3
LC7	POP-UP
LC8	POP-UP COMPRESSED AIR LAYOUT
LC9	LANE CONTROL CONDUIT LAYOUT
LC10	WEST APPROACH SCHEMATIC
LC11	EAST APPROACH SCHEMATIC
LC12	GENERAL LAYOUT - WEST APPROACH
LC13	GENERAL LAYOUT - EAST APPROACH
LC14	WEST APPROACH - MEDIAN DETAILS
LC15	EAST APPROACH - MEDIAN DETAILS NO. 1
LC16	EAST APPROACH - MEDIAN DETAILS NO. 2
LC17	GUARD RAILING & BARRIER RAILING
LC18	CHANGEABLE MESSAGE SIGNS ASSEMBLY
LC19	SIGNS, TYPE RW - MESSAGE HOUSING
LC20	SIGNS, TYPE RW - DRIVE MECHANISM
LC21	SIGNS, TYPE RW - ENCLOSURES
LC22	SIGNS, TYPE W - ENCLOSURE & HOUSING
LC23	SIGNS, TYPE W - DRIVE MECHANISM
LC24	CONTROL BOXES
LC25	SIGN CONTROL - WEST APPROACH
LC26	SIGN CONTROL - EAST APPROACH
LC27	STATE FURNISHED SIGN PANELS SHEET 1 OF 2
LC28	STATE FURNISHED SIGN PANELS SHEET 2 OF 2
LC29	SIGNS, TYPE RW - LIGHTING
LC30	FLUORESCENT SIGN LIGHTING EQUIPMENT
LC31	INSTRUCTIONS AND EXAMPLES
LC32	CHANGEABLE MESSAGE SIGNS
LC33	WALKWAY DETAILS NO. 1
LC34	WALKWAY DETAILS NO. 2
LC35	WALKWAY SAFETY RAILING DETAILS
LC36	TRAFFIC COUNT STATION
LC37	STAGE CONSTRUCTION

NO CONSTRUCTION CHANGES

AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002

CONTRACT No. 04-279734
DATE ACCEPTED Jan. 12, 1966
AS BUILT
RESIDENT ENGINEER D. R. Helm
REVISIONS BY... DATE
DELINEATED BY DATE
DEL CHECKED BY... DATE
Note: See Bridge As Builts

MICROFILMED

SHEET	OF
LC1	37

BRIDGE DEPARTMENT
DESIGN SECTION 11

DESIGN	By R. T. Gilley	
	Checked J. H. Tickle	
DETAILS	By A. H. Mistrik	10-63
	Checked J. H. Tickle	
QUANTITIES	By R. Wells	
	Checked J. H. Tickle	

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALDECOTT TUNNEL-APPROACH LANE CONTROL

GENERAL PLAN

SCALE: 1" = 200 FT. | BRIDGE 28-15 | FILE | DRAWING 2815-1

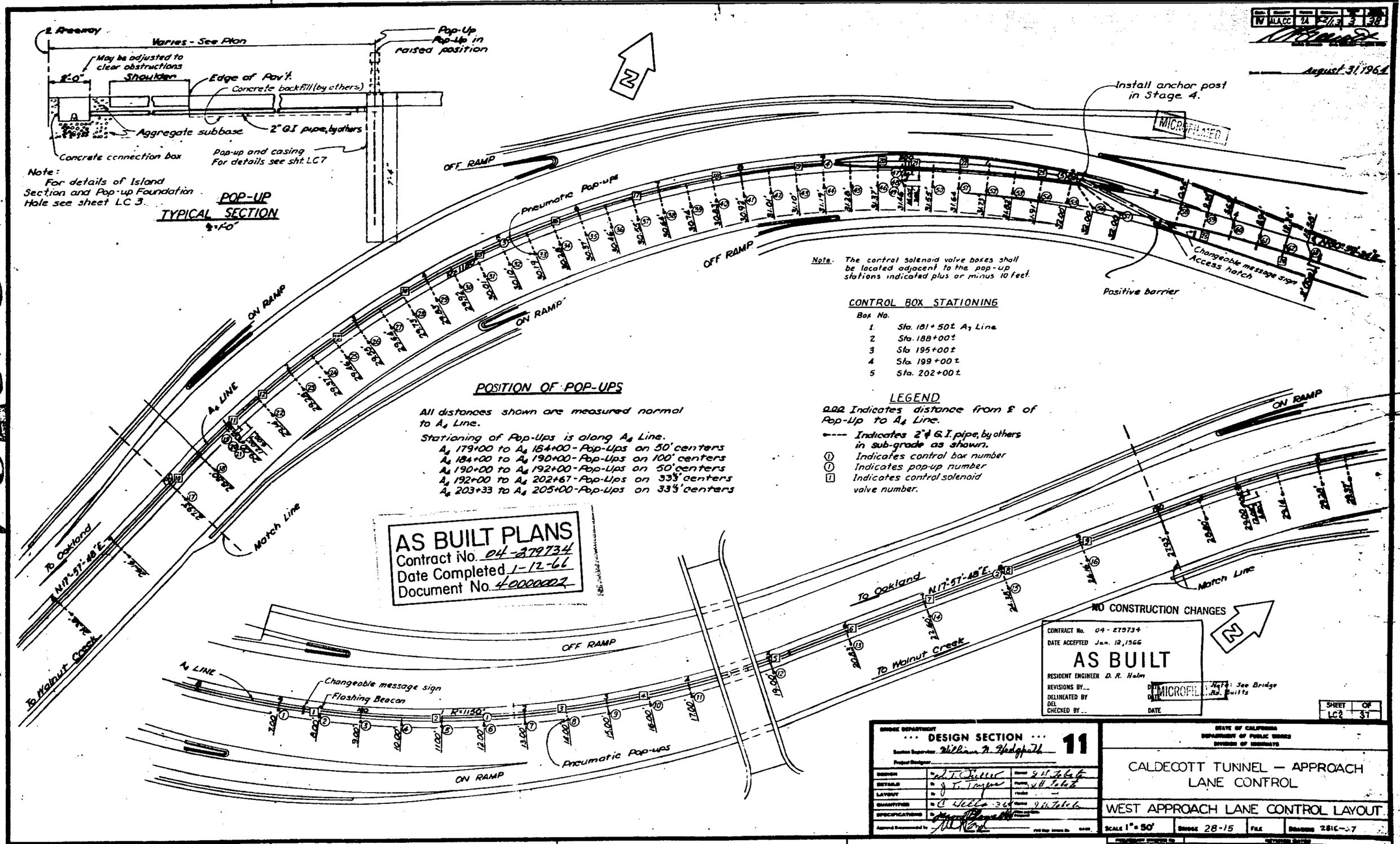
279731 Disregard prints bearing earlier revision dates

P-

REVISION DATES

Specifications 27 Sheets 6 Pp

2

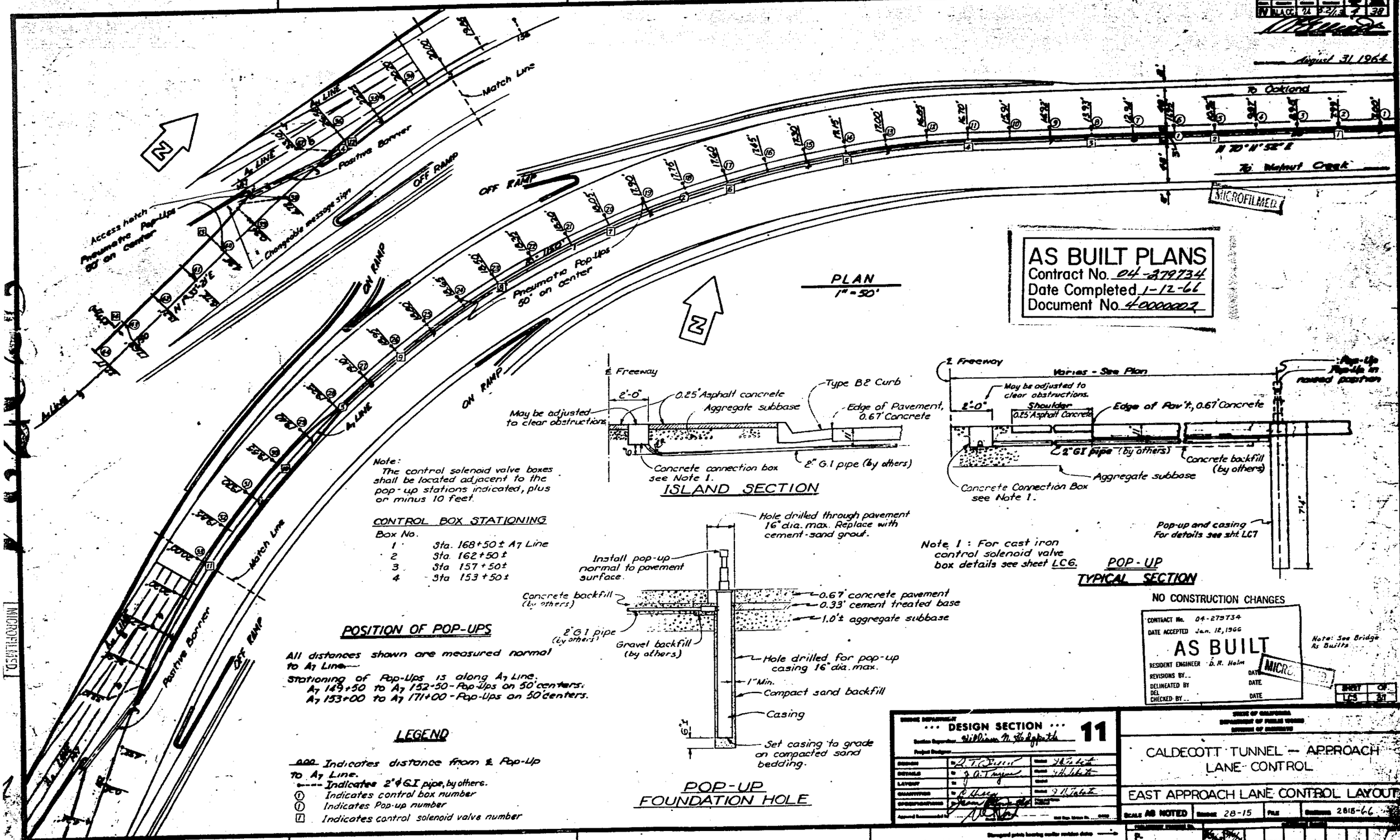


(Old IV-ALA,CC-75-OAK,A)
IV ALA,CC 24 3 38
August 31, 1964
℄ Freeway
Varies - See Plan
May be adjusted to clear obstructions
2'-0"
Shoulder
Edge of Pav't.
Concrete backfill (by others)
Pop-Up
Pop-Up in raised position
Aggregate subbase
2" G.I. pipe, by others
Concrete connection box
Pop-up and casing For details see sht. LC7
Note: For details of Island Section and Pop-up Foundation Hole see sheet LC 3.
POP-UP TYPICAL SECTION
Install anchor post in Stage 4.
MICROFILMED
OFF RAMP
Pneumatic Pop-ups
ON RAMP
A4 LINE
Match Line
To Oakland
N17°-57'-48"E.
To Walnut Creek
Changeable message sign
Access hatch
Positive barrier
Note. The control solenoid valve boxes shall be located adjacent to the pop-up stations indicated plus or minus 10 feet.
CONTROL BOX STATIONING
Box No.
1. Sta. 181+50± A7 Line
2 Sta. 188+00±
3 Sta. 195+00±
4 Sta. 199+00±
5 Sta. 202+00±
LEGEND
0.00 Indicates distance from ℄ of Pop-Up to A4 Line.
Indicates 2" ϕ G.I. pipe, by others in sub-grade as shown.
Indicates control box number
Indicates pop-up number
Indicates control solenoid valve number.
POSITION OF POP-UPS
All distances shown are measured normal to A4 Line.
Stationing of Pop-Ups is along A4 Line.
A4 179+00 to A4 184+00 - Pop-Ups on 50' centers
A4 184+00 to A4 190+00 - Pop-Ups on 100' centers
A4 190+00 to A4 192+00 - Pop-Ups on 50' centers
A4 192+00 to A4 202+67 - Pop-Ups on 33⅓' centers
A4 203+33 to A4 205+00 - Pop-Ups on 33⅓' centers
AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002
NO CONSTRUCTION CHANGES
CONTRACT No. 04-279734
DATE ACCEPTED Jan. 12, 1966
AS BUILT
RESIDENT ENGINEER D. R. Holm
REVISIONS BY
DELINEATED BY
DEL
CHECKED BY
DATE
MICROFILMED
Note: See Bridge As Builts
SHEET LC2 OF 37
BRIDGE DEPARTMENT
DESIGN SECTION
11
Section Supervisor William N. Hedgpath
Project Designer
DESIGN
DETAILS
LAYOUT
QUANTITIES
SPECIFICATIONS
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
CALDECOTT TUNNEL — APPROACH LANE CONTROL
WEST APPROACH LANE CONTROL LAYOUT
SCALE 1" = 50'
BRIDGE 28-15
FILE
DRAWING 2816-37
P.
63-04 T10 H 2797.0

(Old IV-ALA,CC-75-OAK,A)

IV ALA CC 24 5.2/13 4 38

August 31 1964



AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002

MICROFILMED

NO CONSTRUCTION CHANGES

CONTRACT No. 04-279734
DATE ACCEPTED Jan. 12, 1966
AS BUILT
RESIDENT ENGINEER D. R. Holm
REVISIONS BY... DATE
DELINEATED BY DATE
DEL
CHECKED BY... DATE

Note: See Bridge As Builts

MICROFILMED

SHEET LC5 OF 31

BRIDGE DEPARTMENT
... DESIGN SECTION ... 11
Section Supervisor William N. Hedgpeth
Project Designer

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALDECOTT TUNNEL — APPROACH LANE CONTROL

EAST APPROACH LANE CONTROL LAYOUT

SCALE AS NOTED | BRIDGE 28-15 | FILE | DRAWING 2815-66

63-04T10H2797.0

(Old IV-ALA.CC-75-OAK,A)

FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

Sheet	Contract	Section	Date	Sheet	Total
IV	ALA.CC	28	8-21-13	5	38

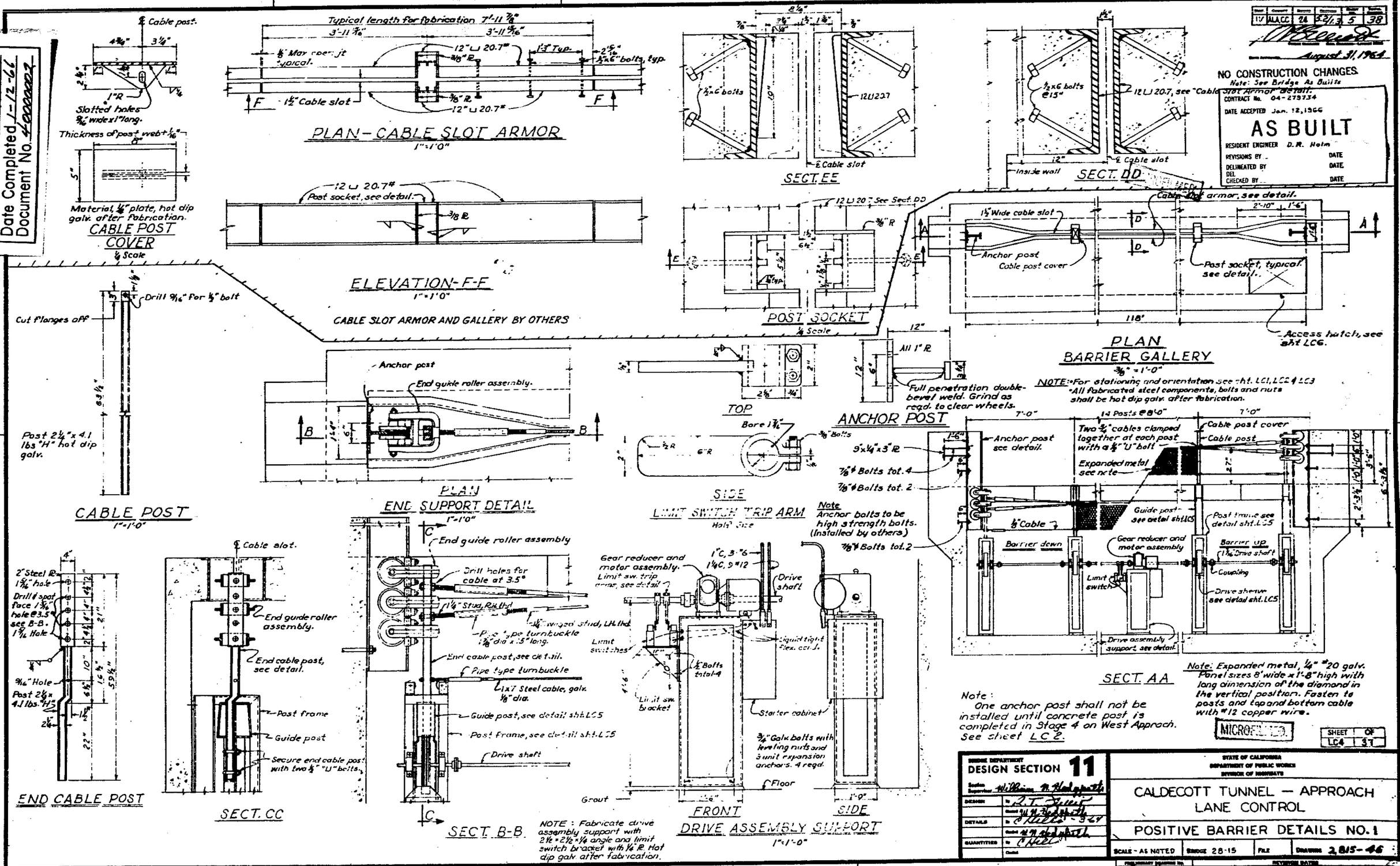
August 31, 1964

NO CONSTRUCTION CHANGES
Note: See Bridge As Built

CONTRACT No. 04-279734
DATE ACCEPTED Jan. 12, 1966

AS BUILT
RESIDENT ENGINEER D.R. Holm
REVISIONS BY DATE
DELINEATED BY DATE
DEL. CHECKED BY DATE

AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 4000002



Note:
One anchor post shall not be installed until concrete post is completed in Stage 4 on West Approach. See sheet LC2.

MICROFILMED

SHEET	OF
LC4	37

BRIDGE DEPARTMENT
DESIGN SECTION 11
Section Supervisor William M. Hedgpeth
DESIGN by R.T. Fuller
Checked W.M. Hedgpeth
DETAILS by C. Nuttall - 3-64
Checked W.M. Hedgpeth
QUANTITIES by C. Nuttall
Checked

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALDECOTT TUNNEL — APPROACH
LANE CONTROL

POSITIVE BARRIER DETAILS NO. 1

SCALE - AS NOTED | BRIDGE 28-15 | FILE | DRAWING 2,815-46

Disregard prints bearing earlier revision dates

PRELIMINARY Approved for
P.
REVISION DATE

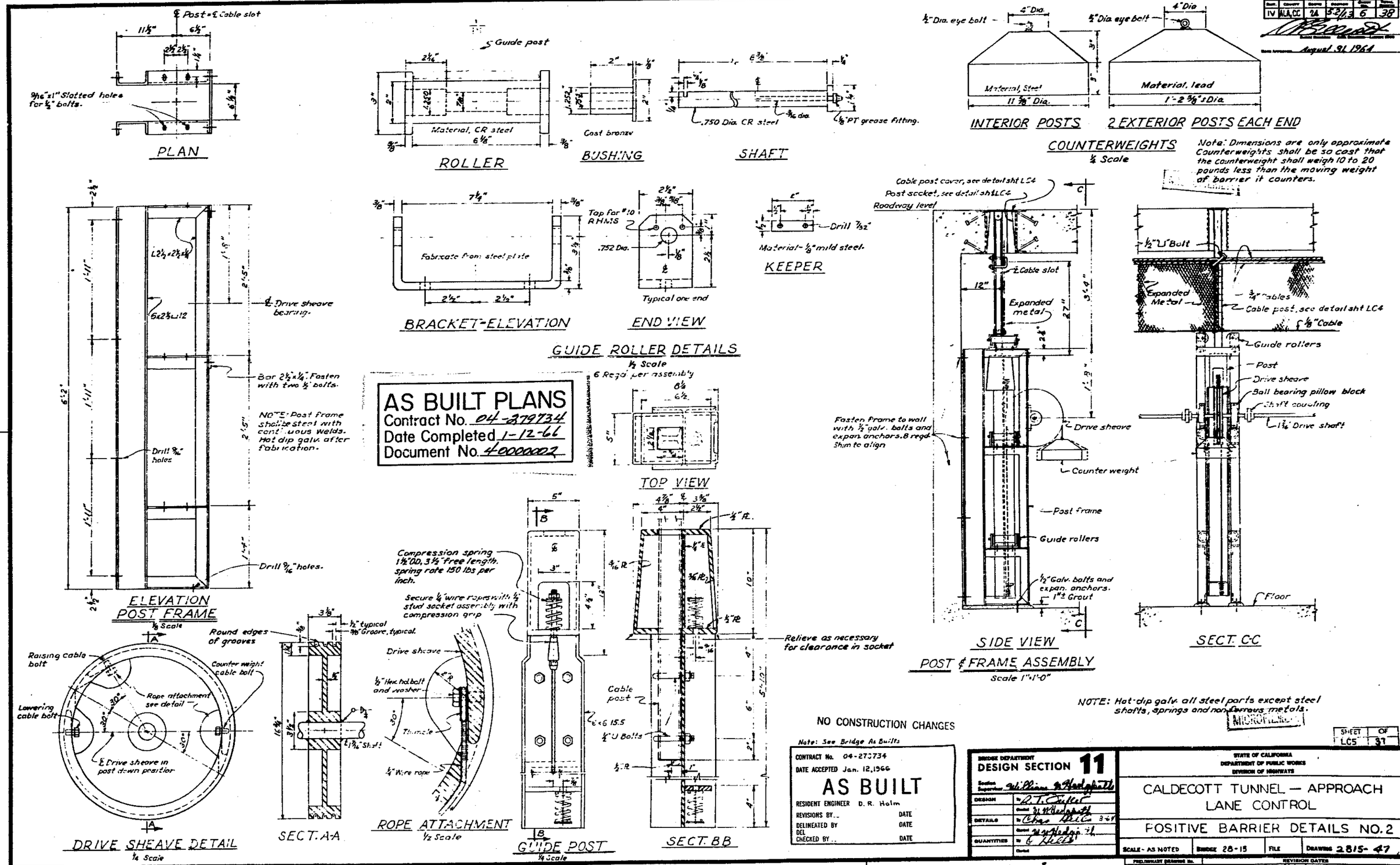
2 2 0 2 6 4

5

(Old IV-ALA,CC-75-OAK,A)

District	County	Route	Section	Sheet No.	Total Sheets
IV	ALA,CC	24	52/1.3	6	38

August 31, 1964



AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002

NO CONSTRUCTION CHANGES

Note: See Bridge As Builts

CONTRACT No. 04-279734
DATE ACCEPTED Jan. 12, 1966
AS BUILT
RESIDENT ENGINEER D. R. Holm
REVISIONS BY ... DATE
DELINEATED BY DATE
DEL CHECKED BY ... DATE

NOTE: Hot-dip galv. all steel parts except steel shafts, springs and nonferrous metals.

MICROFILMED

SHEET	OF
LC5	31

BRIDGE DEPARTMENT
DESIGN SECTION 11
Section Supervisor William M. Wedgeworth
DESIGN — By R. T. Cutler
DETAILS — By Chas. Mc
QUANTITIES — By G. Nicks

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALDECOTT TUNNEL — APPROACH LANE CONTROL

POSITIVE BARRIER DETAILS NO. 2

SCALE - AS NOTED | BRIDGE 28-15 | FILE | DRAWING 2815-47

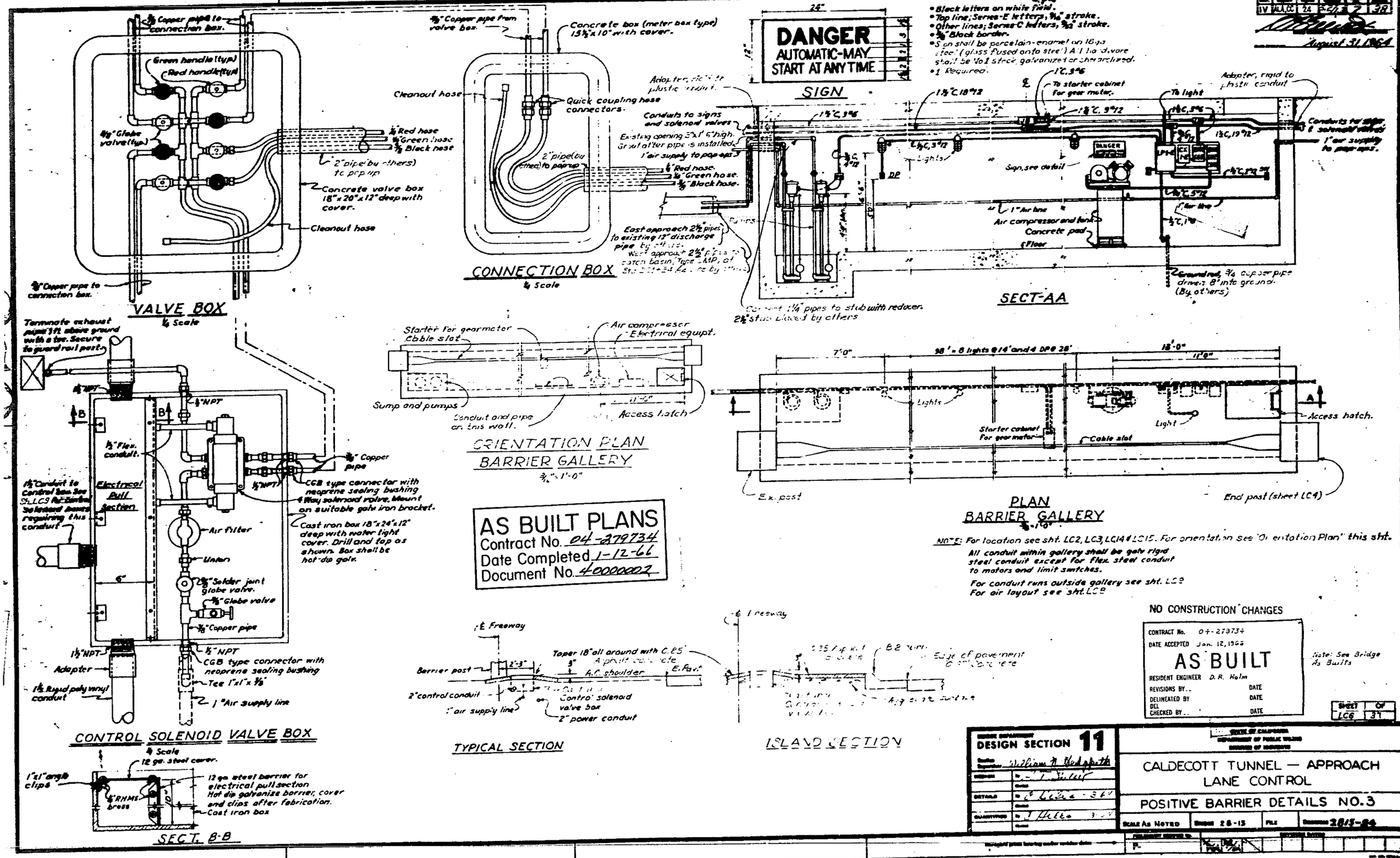
Disregard prints bearing earlier revision dates

PRELIMINARY DRAWING No. P-

REVISION DATES

27947

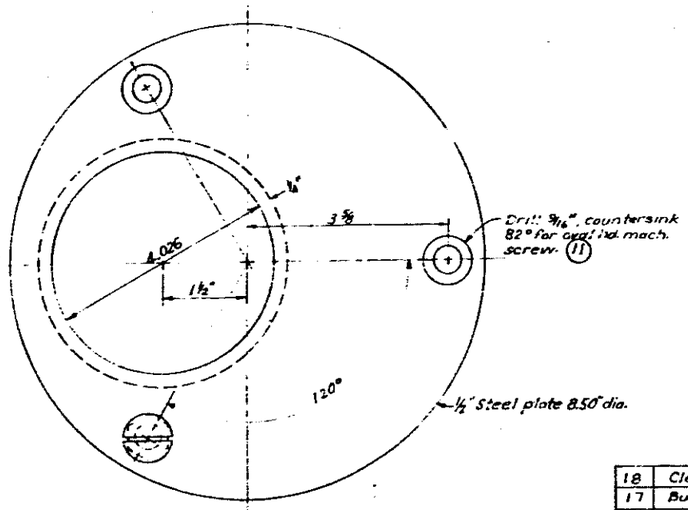
6



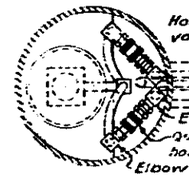
(Old IV-ALA,CC-75-OAK,A)
IV ALA,CC 24 5-6/7 7 38
August 31 1964
DANGER
AUTOMATIC-MAY
START AT ANY TIME
SIGN
• Black letters on white field.
• Top line; Series-E letters, 9/16" stroke.
• Other lines; Series-C letters, 9/32" stroke.
• 3/8" Black border.
• Sign shall be porcelain-enamel on 16 ga steel (glass fused onto steel) All hardware shall be No 1 stock, galvanized or cheraralized.
• 1 Required.
VALVE BOX
1/4 Scale
3/8" Copper pipe to connection box.
Green handle (typ)
Red handle (typ)
3/8" Globe valve (typ)
1/4" Red hose
1/4" Green hose
3/8" Black hose
2" pipe (by others) to pop up
Concrete valve box 18"x20"x12" deep with cover.
Cleanout hose
CONNECTION BOX
1/4 Scale
3/8" Copper pipe from valve box.
Concrete box (meter box type) 15 1/2"x10" with cover.
Cleanout hose
Quick coupling hose connectors.
2" pipe (by others) to pop up
1/4" Red hose.
1/4" Green hose.
3/8" Black hose.
Adapter, rigid to plastic conduit
Conduits to signs and solenoid valves
Existing opening 3"x1' 6" high. Grout after pipe is installed.
1" air supply to pop-ups
East approach 2 1/2" pipes to existing 12" discharge pipe by others.
West approach 2 1/2" pipes to catch basin, Type SMP, at Sta 201+34 (Ave line by others)
Concrete 1 1/4" pipes to stub with reducer. 2 1/2" stub placed by others
SECT-AA
To starter cabinet for gear motor.
To light
Adapter, rigid to plastic conduit
Conduits to signs & solenoid valves
1" air supply to pop-ups.
Sign, see detail
Lights
DP
1" Air line
Air compressor and tank
Concrete pad
Floor
Ground rod, 3/4 copper pipe driven 8' into ground. (By others)
Terminate exhaust pipe 1 ft above ground with a tee. Secure to guard rail post.
1/2" NPT
1/2" Flex. conduit.
Electrical Pull Section
1 1/2" Conduit to Control box. See Sh. LC9 for control solenoid boxes requiring this conduit
3/8" Copper pipe
CGB type connector with neoprene sealing bushing
4 Way solenoid valve. Mount on suitable galv iron bracket.
Cast iron box 18"x24"x12" deep with water tight cover. Drill and tap as shown. Box shall be hot-dip galv.
Air filter
Union
3/8" Solder joint globe valve.
3/8" Globe valve
3/8" Copper pipe
1 1/2" NPT
Adapter
1 1/2 Rigid poly vinyl conduit
CGB type connector with neoprene sealing bushing
Tee 1"x1"x3/8"
1" Air supply line
CONTROL SOLENOID VALVE BOX
1/4 Scale
12 ga. steel cover.
1"x1" angle clips
1/4" RHMS brass
12 ga steel barrier for electrical pull section Hot dip galvanize barrier, cover and clips after fabrication.
Cast iron box
SECT. B-B
Starter for gearmotor
Cable slot
Air compressor
Electrical equipt.
Sump and pumps
Conduit and pipe on this wall.
Access hatch
ORIENTATION PLAN
BARRIER GALLERY
3/16" = 1'-0"
7'-0"
98' = 8 lights @ 14' and 4 DP @ 28'
13'-0"
11'-0"
Lights
Light
Access hatch.
Starter cabinet for gear motor
Cable slot
Ex. post
End post (sheet LC4)
PLAN
BARRIER GALLERY
3/16" = 1'-0"
NOTE: For location see sht. LC2, LC3, LC14 & LC15. For orientation see "Orientation Plan" this sht.
All conduit within gallery shall be galv rigid steel conduit except for flex. steel conduit to motors and limit switches.
For conduit runs outside gallery see sht. LC9
For air layout see sht. LC8
AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002
℄ Freeway
Barrier post
2'-3"
Taper 18" all around with 0.85 Asphalt concrete
A.C. shoulder
E. Pavt
2" control conduit
1" air supply line
Control solenoid valve box
2" power conduit
TYPICAL SECTION
℄ Freeway
Edge of pavement
ISLAND SECTION
NO CONSTRUCTION CHANGES
CONTRACT No. 04-279734
DATE ACCEPTED Jan. 12, 1966
AS BUILT
RESIDENT ENGINEER D. R. Holm
REVISIONS BY
DATE
DELINEATED BY
DATE
DEL
CHECKED BY
DATE
Note: See Bridge As Builts
SHEET LC6 OF 37
DESIGN SECTION 11
William N. Hedgpeth
CALDECOTT TUNNEL — APPROACH LANE CONTROL
POSITIVE BARRIER DETAILS NO. 3
SCALE AS NOTED
BRIDGE 28-15
FILE
DRAWING 2815-84

Dist.	County	Route	Section	Sheet No.	Total Sheets
IV	ALA,CC	24	5.2/6.3	8	38

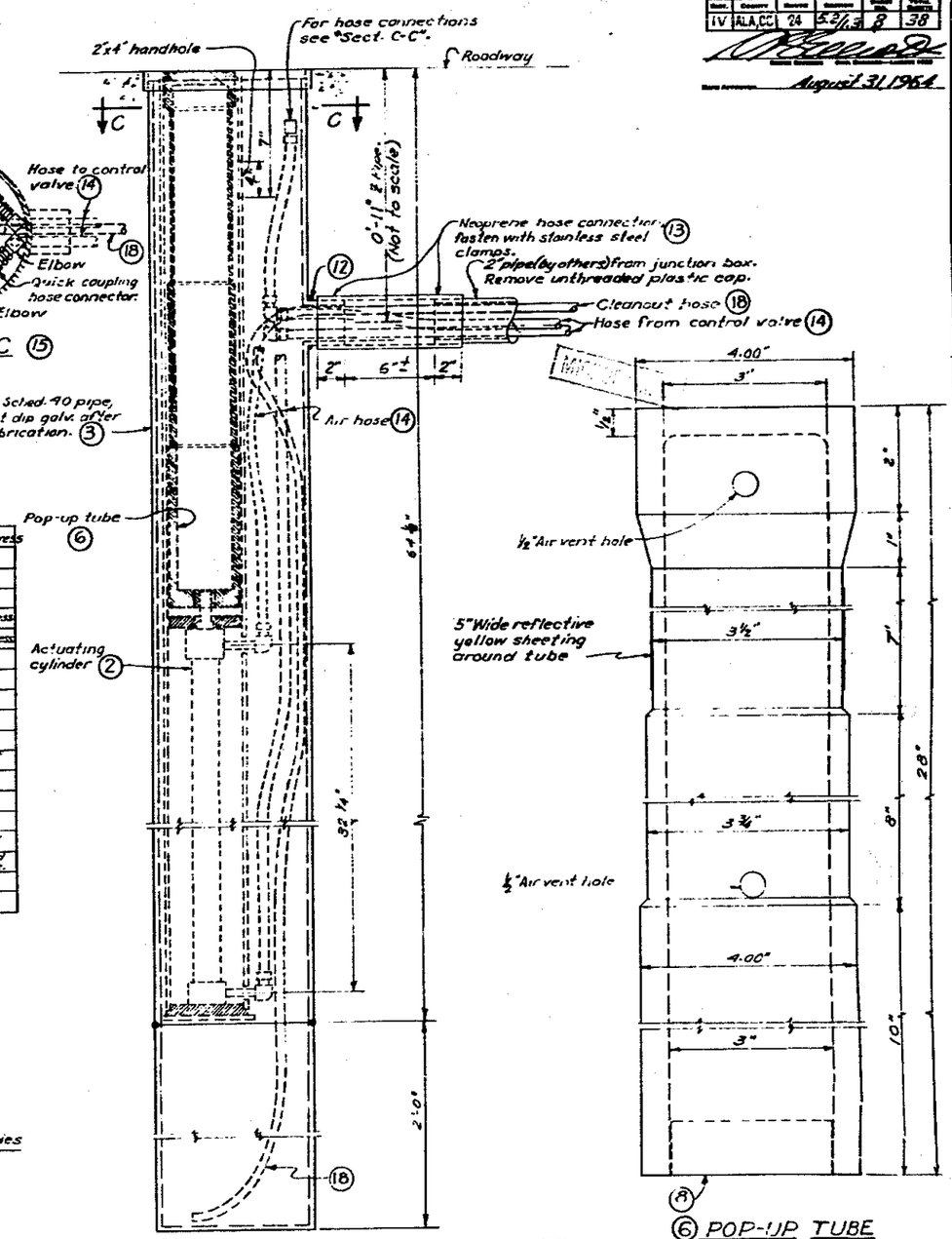
August 31, 1964



COVER DETAIL (9)
3/4 Scale

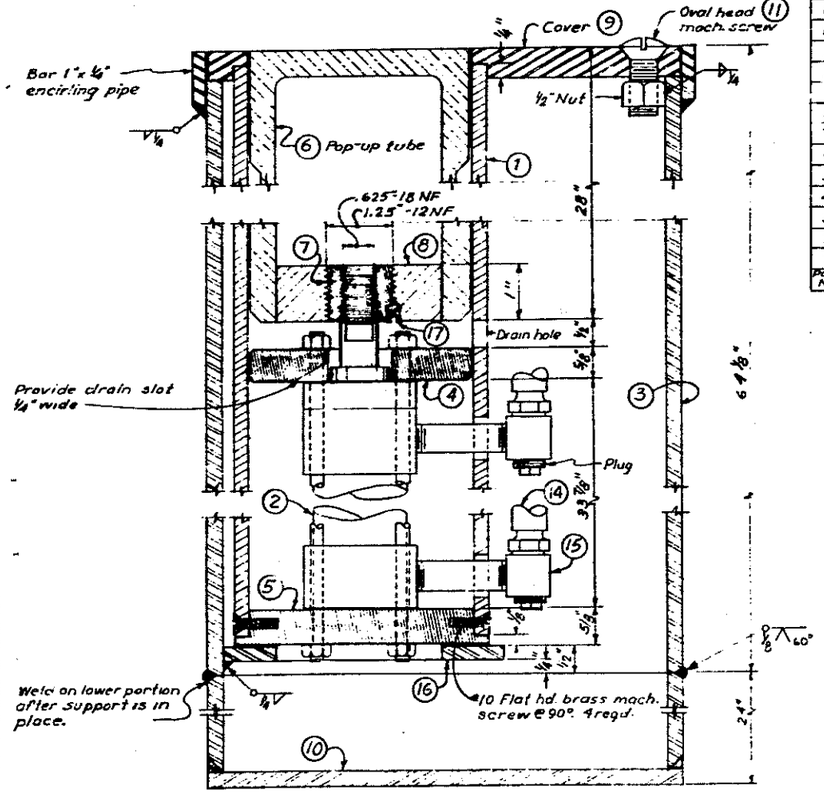


SECT. C-C (15)

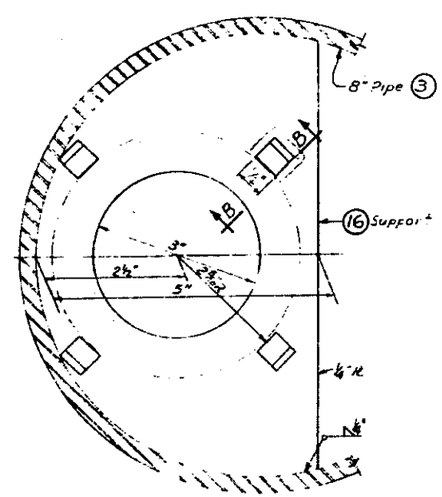


ELEVATION
1/4 Scale

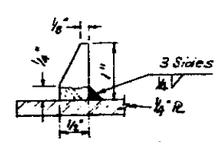
6 POP-UP TUBE
3/4 Scale



ASSEMBLY
3/4 Scale



SUPPORT DETAIL
3/4 Scale



SECT. 3B

AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002

Part No.	Description	No. Req'd	Stock Size	Material	Remarks
18	Cleanout hose	1	3/8" I.D. length as reqd.	Neoprene hose	Min. 100 lb work press.
17	Bushing lock screw	1	1/4" Dia. x 1/4" lg. 28 NF	Brass or stainless steel.	
16	Support	1	1/8" plate	Steel	As detailed.
15	Air fittings	As req'd	1/4" Pipe size	Brass or stainless steel.	
14	Air supply hose (Green tred)	–	1/4" I.D. length as reqd.	Neoprene hose	Min. 250 lb. work press.
13	Connection	1	2 3/8" I.D. x 10" ±	Neoprene hose	Min. 50 lb work press.
12	Unthreaded Nipple	1	2" pipe x 2" lg	Steel	Weld to 8" pipe
11	Oval head mach. screws.	3	1/2" Dia. x 1" lg.	Brass or stainless steel.	
10	Bottom plate	1	8.63 dia. x 1/4" thk.	Steel	Weld to pipe
9	Cover	1	8.50 dia. x 1/2" thk.	Steel	Hot dip galv.
8	Tube plug	1	3" dia x 1" thk	Plastic	Solvent cement to pop-up tube
7	Tube bushing	1	1 5/8" O.D. x 3/8" I.D. x 1.0" lg.	Brass	Threaded 1 5/8"-18 NF & 1 1/4"-12 NF
6	Pop-up tube	1	3.00 I.D. x 4.00 O.D.	Plastic	As Detailed
5	Cylinder rest	1	4.50 dia. x 5/8" thk.	Aluminum	
4	Cylinder guide	1	4.00 dia. x 5/8" thk.	Aluminum	
3	Support tube	1	8" Sched. 40 pipe	Steel	Hot dip galv. after fab.
2	Actuating cylinder	1	1 1/4" Min. dia. x 30" stroke	Brass or aluminum	Stop tube and extended tie rods.
1	Rigid plastic conduit	1	4.026 I.D. x 4.50 O.D.	Polyvinyl chloride	63 1/4" long

NO CONSTRUCTION CHANGES
Note: See Bridge As Builts

CONTRACT No. 04-279734
DATE ACCEPTED Jan. 12, 1966
AS BUILT
RESIDENT ENGINEER D. R. Holm
REVISIONS BY ... DATE
DELINEATED BY ... DATE
DEL. CHECKED BY ... DATE

BRIDGE DEPARTMENT
DESIGN SECTION 11
Section Supervisor William H. Hedgpeth
DESIGN — Checked W. H. Hedgpeth
DETAILS — Checked W. H. Hedgpeth
QUANTITIES — Checked W. H. Hedgpeth

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALDECOTT TUNNEL — APPROACH LANE CONTROL

POP-UP

SHEET	OF
LC7	37

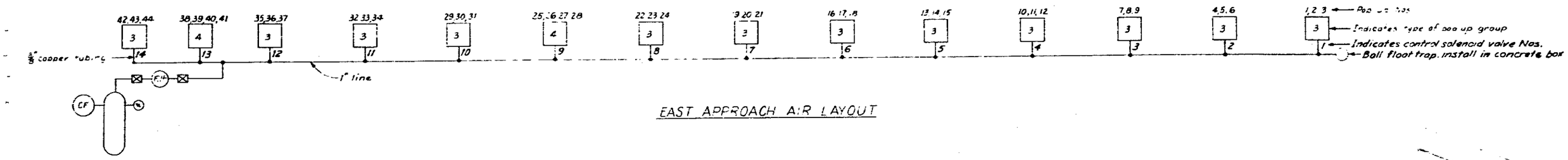
SCALE – AS NOTED	BRIDGE 28-15	FILE	DRAWING 2815-70

Disregard prints bearing earlier revision dates
PRELIMINARY APPROVAL No. P-
REVISION DATES

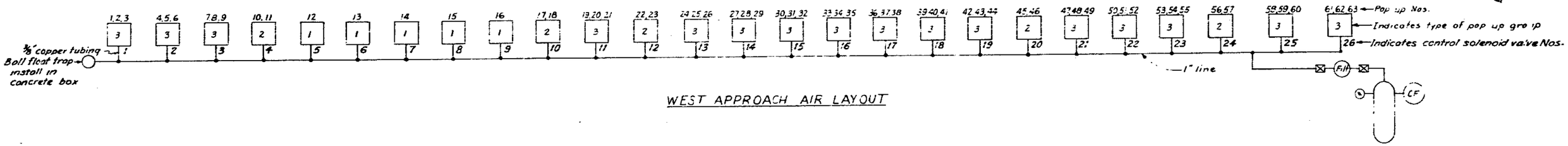
63-CATICH 27970

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
IV	ALA CC	24	5.2/1.3	9	38

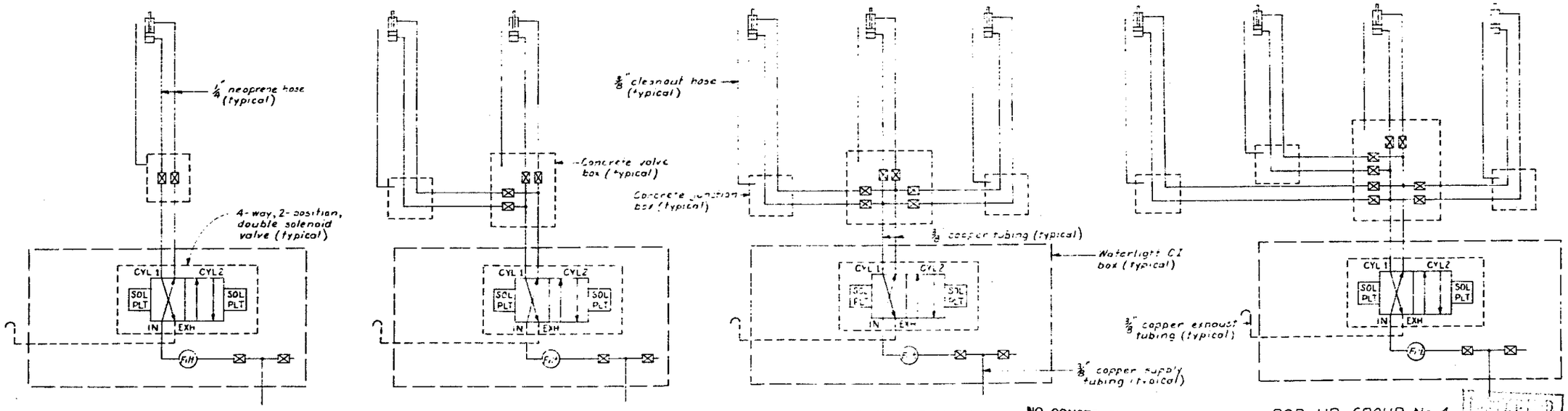
August 31, 1964



EAST APPROACH AIR LAYOUT



WEST APPROACH AIR LAYOUT



POP-UP GROUP No. 1

POP-UP GROUP No. 2

POP-UP GROUP No. 3

POP-UP GROUP No. 4

NO CONSTRUCTION CHANGES

SHEET LC8 OF 37

Note: See Bridge As Builts

CONTRACT No. 04-279734
DATE ACCEPTED Jan. 12, 1966
AS BUILT
RESIDENT ENGINEER D. R. Holm
REVISIONS BY DATE
DELINEATED BY DATE
DEL
CHECKED BY DATE

AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002

BRIDGE DEPARTMENT
DESIGN SECTION 11
Section Supervisor William N. Hedgpath
DESIGN By L. T. Fuller
DETAILS By J. A. Trujeva
QUANTITIES By E. Hells

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALDECOTT TUNNEL — APPROACH LANE CONTROL

POP-UP COMPRESSED AIR LAYOUT

SCALE None | BRIDGE 28-15 | FILE | DRAWING 2815-62

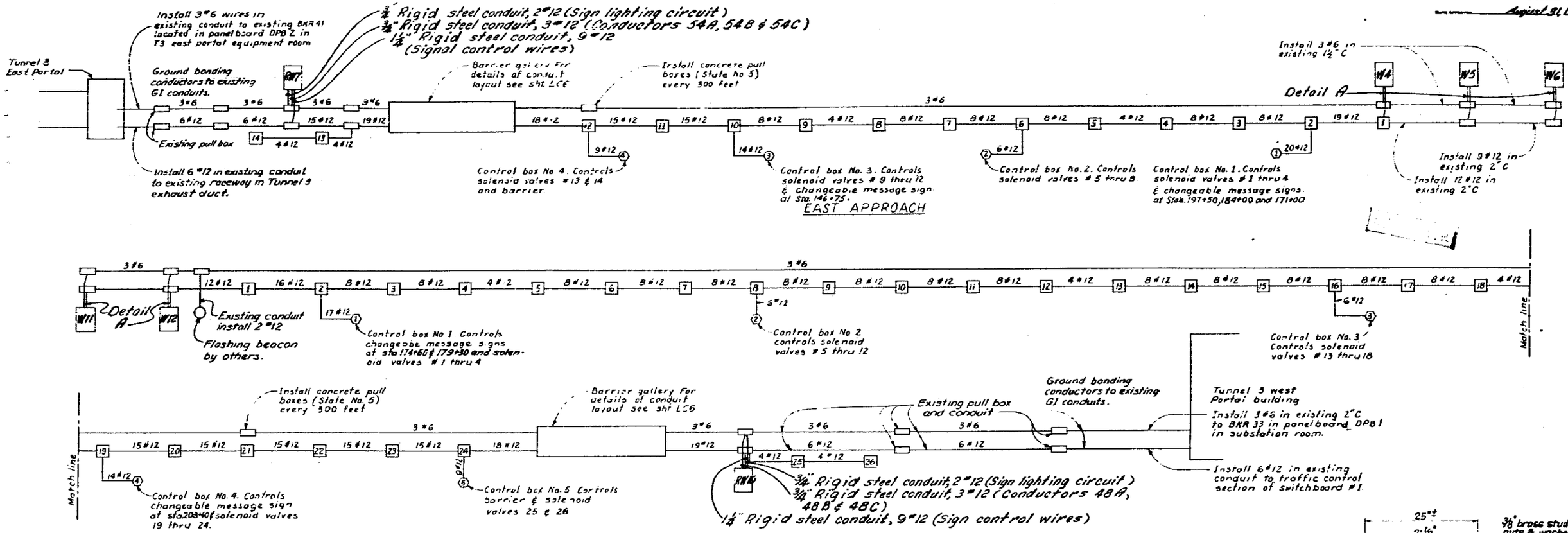
PRELIMINARY DRAWING No. P-
REVISION DATES

Disregard prints bearing earlier revision dates

63 OPTION 2797.0

Dist.	County	Route	Section	Sheet	Total
IV	ALA.CC	24	S.2/L.3	10	38

August 31, 1964



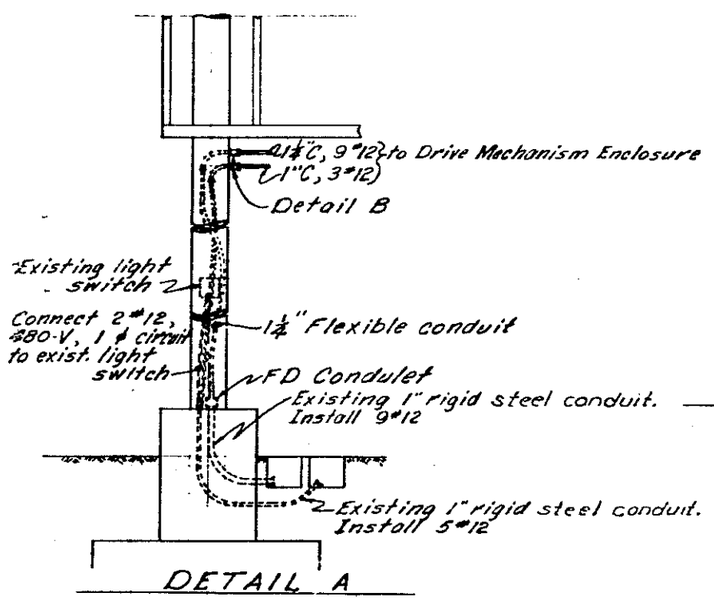
WEST APPROACH

CONDUIT LAYOUT

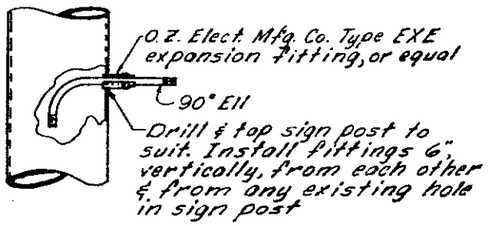
LEGEND

- ○ Control box, see details sht. titled "Control Boxes."
- □ Control solenoid valve box
- ▭ Concrete pull box
- ▢ Changeable message sign.

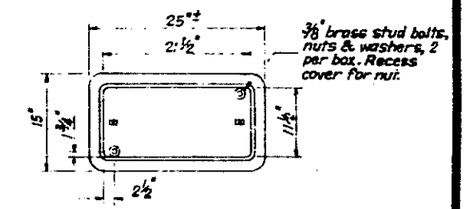
NOTE: All underground conduit shown on this drawing, except as noted, shall be 1½" rigid polyvinyl conduit. There shall be a #8 AWG bare bonding conductor in addition to the conductors noted.

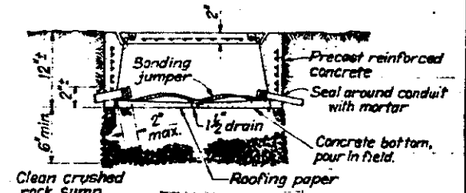


DETAIL A



DETAIL B





STANDARD PULLBOX No 5

NO CONSTRUCTION CHANGES

Note: See Bridge As Builts

CONTRACT No. 04-279734

DATE ACCEPTED Jan. 12, 1966

AS BUILT

RESIDENT ENGINEER D. R. Holm

REVISIONS BY... DATE

DELINEATED BY DATE

DEL CHECKED BY... DATE

AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002

BRIDGE DEPARTMENT ··· DESIGN SECTION ··· 11

Project Designer

Chief Designer William H. Hedgpeth

DESIGN	W. H. Jobe	Checked	C. M.
DETAILS	J. A. Tanner	Checked	C. M.
QUANTITIES	W. H. Jobe	Checked	C. M.
SPECIFICATIONS		Plans and Specs Prepared	

Approval Recommended by

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALDECOTT TUNNEL — APPROACH LANE CONTROL

LANE CONTROL CONDUIT LAYOUT

SCALE NONE	BRIDGE 23-15	FILE	DRAWING 2815-72

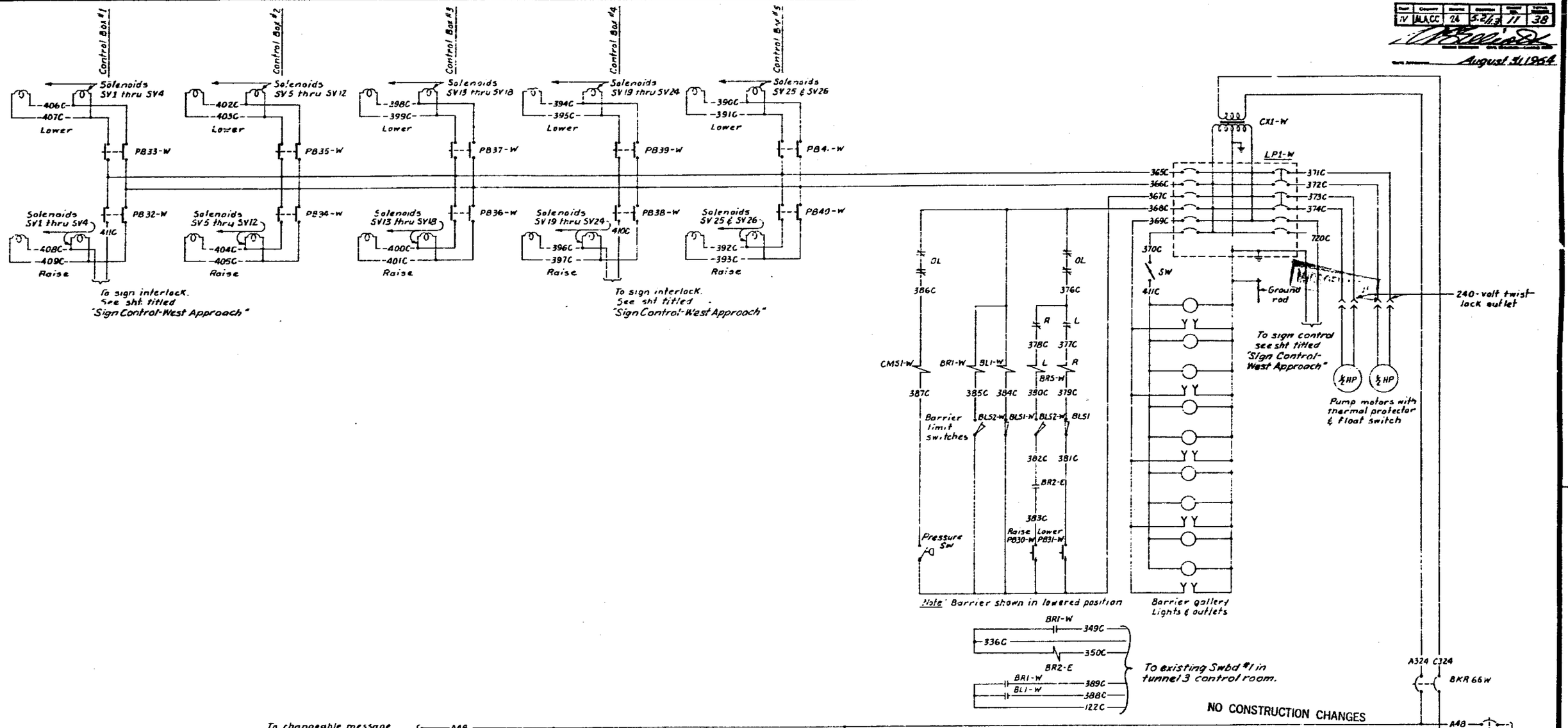
Disregard prints bearing earlier numbers → PREL. DRAWING NO. P-

63-04TIA 279734

(Old IV-ALA,CC-75-OAK,A)

DIST.	COUNTY	ROUTE	POSTMILE	SHEET	TOTAL SHEETS
IV	ALA,CC	24	5.2/13.3	11	38

August 31, 1964



CONTRACT No. 04-279734
DATE ACCEPTED Jan. 12, 1966

AS BUILT

RESIDENT ENGINEER D. R. Holm
REVISIONS BY DATE
DELINEATED BY DEL DATE
CHECKED BY DATE

SHEET 1 OF LC10 37

AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002

BRIDGE DEPARTMENT
··· DESIGN SECTION ··· 11
Project Designer
Chief Designer William N. Hedgpeth

DESIGN	by J. J. Tolle Jr.	Checked	C. M. Smith
DETAILS	by J. G. Tagore	Checked	C. M. Smith
QUANTITIES	by J. J. Tolle Jr.	Checked	C. M. Smith
SPECIFICATIONS	by	Plans and Specs. Checked	

Approval Recommended by ... Civil Eng. License No. 6789

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKES
DIVISION OF HIGHWAYS

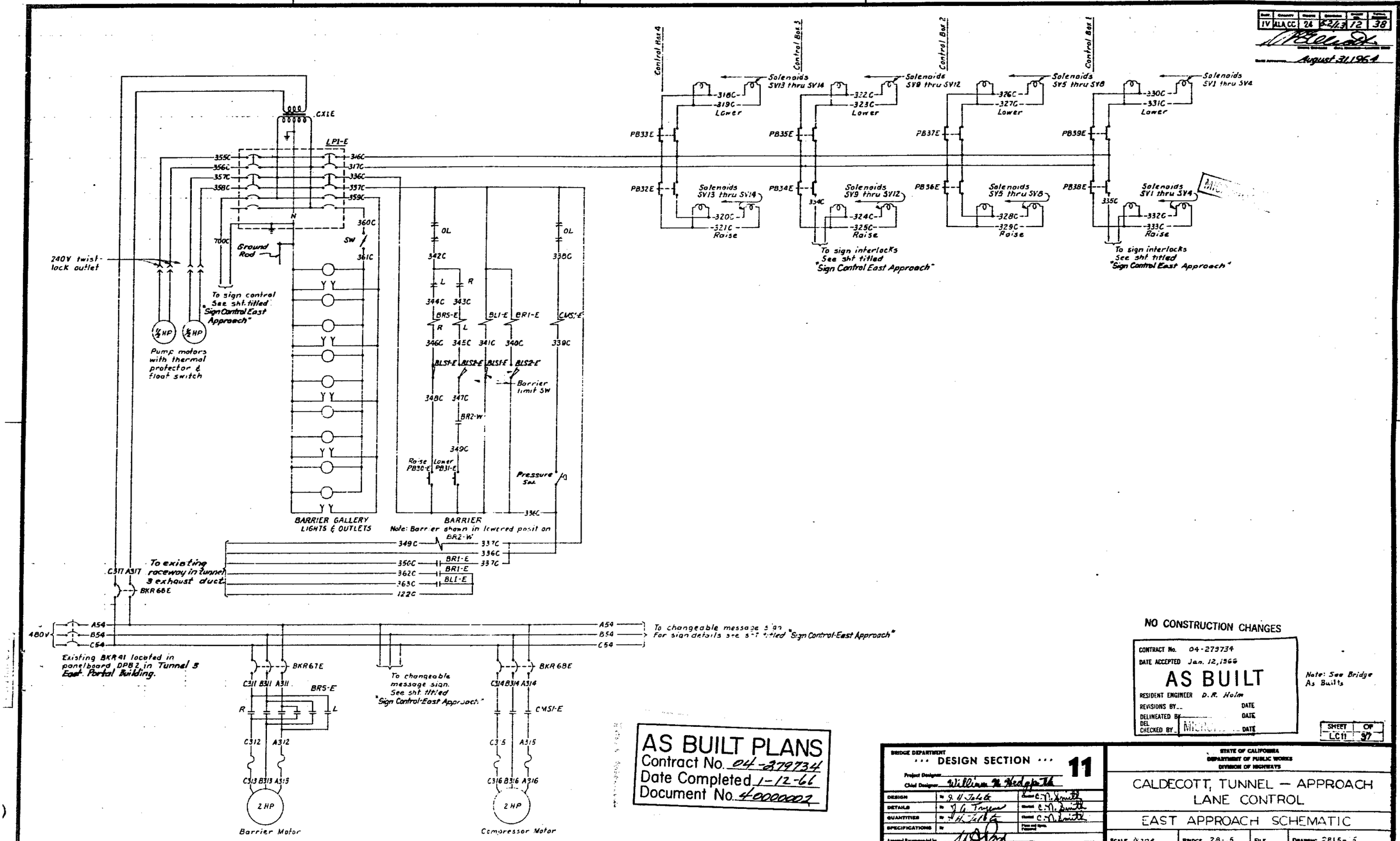
CALDECOTT TUNNEL — APPROACH LANE CONTROL

WEST APPROACH SCHEMATIC

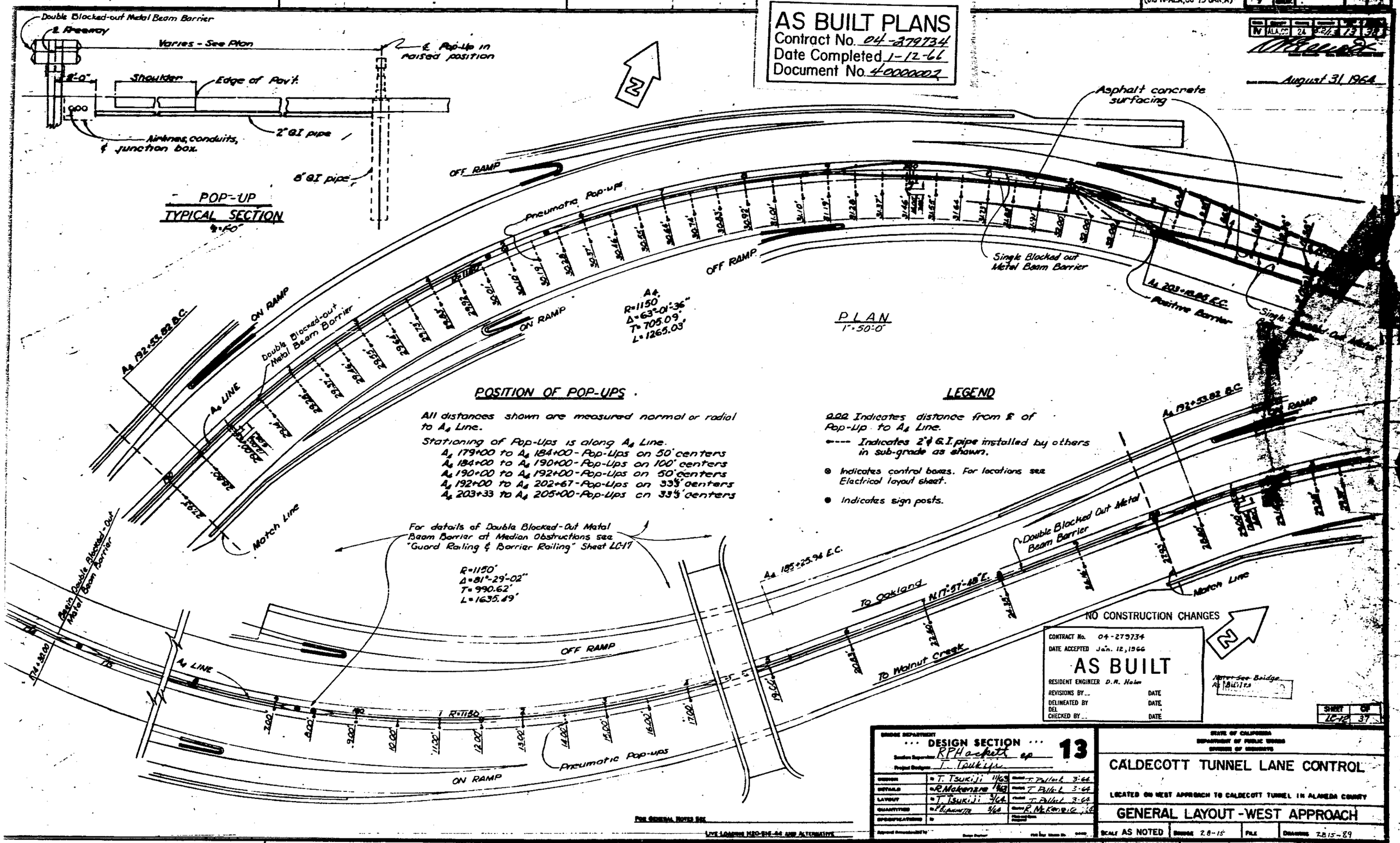
SCALE None | BRIDGE 28-15 | FILE | DRAWING 2815-71

Disregard prints bearing earlier numbers

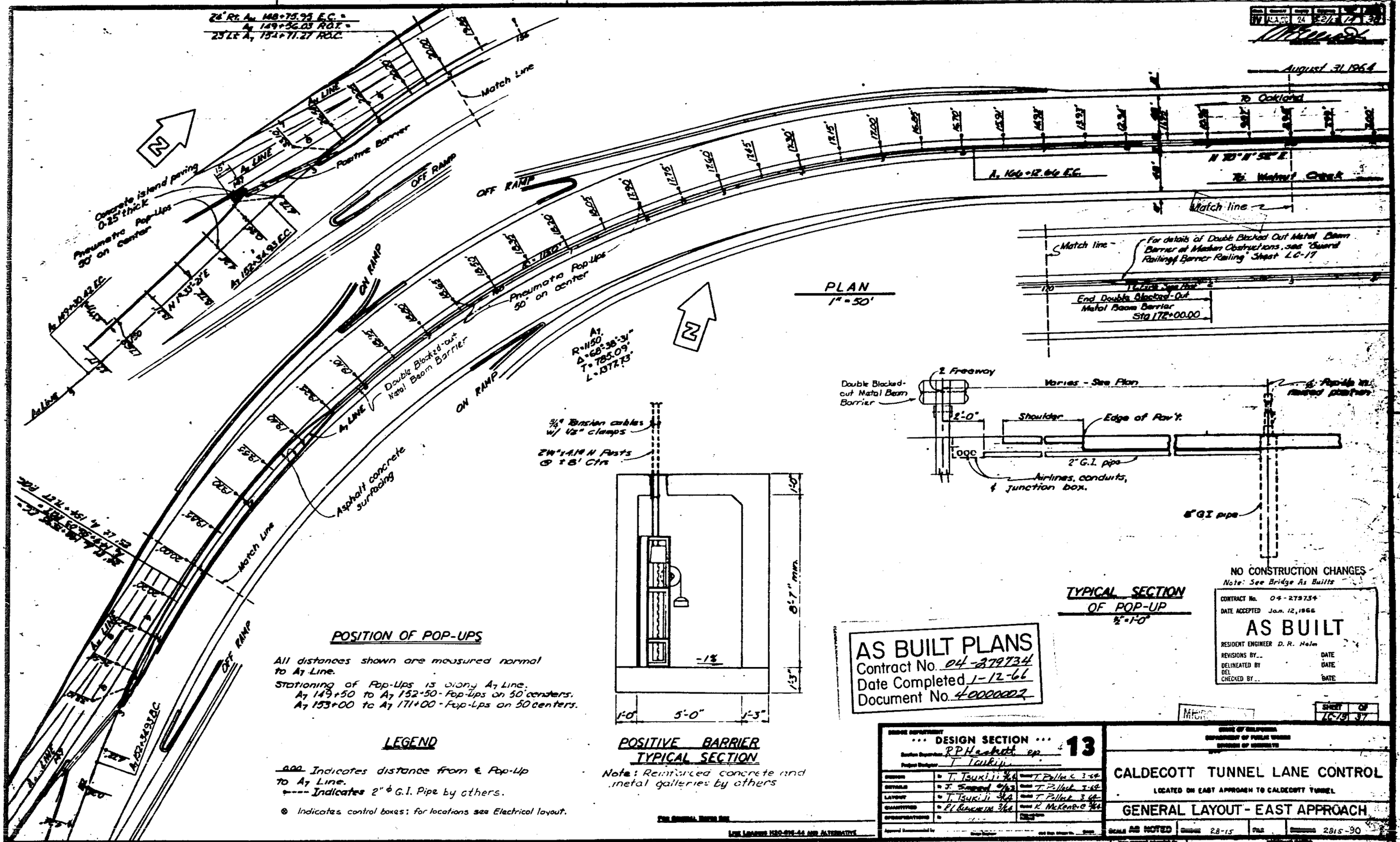
PREL. DRAWING No. P-



(Old IV-ALA,CC-75-OAK,A)
7
CALIF.
IV
ALA,CC
24
12
38
August 31,1964
Control Box 4
Control Box 3
Control Box 2
Control Box 1
Solenoids SV13 thru SV14
Solenoids SV9 thru SV12
Solenoids SV5 thru SV8
Solenoids SV1 thru SV4
Lower
Raise
To sign interlocks See sht titled "Sign Control East Approach"
CX1E
LP1-E
240V twist-lock outlet
Ground Rod
To sign control See sht. titled "Sign Control East Approach"
Pump motors with thermal protector & float switch
BARRIER GALLERY LIGHTS & OUTLETS
BARRIER
Note: Barrier shown in lowered position
Barrier limit SW
Pressure Sw.
To existing raceway in tunnel 3 exhaust duct
BKR 66E
480V
Existing BKR41 located in panelboard DPB2 in Tunnel 3 East Portal Building.
To changeable message sign For sign details see sht titled "Sign Control-East Approach"
To changeable message sign. See sht titled "Sign Control-East Approach"
BKR67E
BKR68E
2 HP
Barrier Motor
Compressor Motor
NO CONSTRUCTION CHANGES
CONTRACT No. 04-279734
DATE ACCEPTED Jan. 12,1966
AS BUILT
RESIDENT ENGINEER D.R. Holm
REVISIONS BY
DELINEATED BY
DEL CHECKED BY
DATE
Note: See Bridge As Builts
SHEET LC11 OF 37
AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002
BRIDGE DEPARTMENT
DESIGN SECTION
11
Project Designer
Chief Designer William N. Hedgpeth
DESIGN
DETAILS
QUANTITIES
SPECIFICATIONS
Approval Recommended by
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
CALDECOTT, TUNNEL — APPROACH LANE CONTROL
EAST APPROACH SCHEMATIC
SCALE None
BRIDGE 28-.5
FILE
DRAWING 2815-5
Disregard prints bearing earlier numbers
PREL. DRAWING NO. P-



AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002
(Old IV-ALA,CC-75-OAK,A)
August 31, 1964
Double Blocked-out Metal Beam Barrier
℄ Freeway
Varies - See Plan
℄ Pop-Up in raised position
Shoulder
Edge of Pav't.
Airlines, conduits, & junction box.
2" GI pipe
8" GI pipe
POP-UP
TYPICAL SECTION
Asphalt concrete surfacing
OFF RAMP
Pneumatic Pop-ups
ON RAMP
Double Blocked-out Metal Beam Barrier
A4 LINE
Match Line
A4 192+53.82 B.C.
A4 203+18.85 E.C.
Positive Barrier
Single Blocked out Metal Beam Barrier
A4
R=1150'
Δ=63°-01'-36"
T=705.09'
L=1265.03'
PLAN
1"=50'-0"
POSITION OF POP-UPS
All distances shown are measured normal or radial to A4 Line.
Stationing of Pop-Ups is along A4 Line.
A4 179+00 to A4 184+00 - Pop-Ups on 50' centers
A4 184+00 to A4 190+00 - Pop-Ups on 100' centers
A4 190+00 to A4 192+00 - Pop-Ups on 50' centers
A4 192+00 to A4 202+67 - Pop-Ups on 33⅓' centers
A4 203+33 to A4 205+00 - Pop-Ups on 33⅓' centers
LEGEND
0.00 Indicates distance from ℄ of Pop-Up to A4 Line.
---- Indicates 2" ϕ G.I. pipe installed by others in sub-grade as shown.
⊗ Indicates control boxes. For locations see Electrical layout sheet.
● Indicates sign posts.
For details of Double Blocked-Out Metal Beam Barrier at Median Obstructions see "Guard Railing & Barrier Railing" Sheet LC-17
R=1150'
Δ=81°-29'-02"
T=990.62'
L=1635.49'
A4 185+25.94 E.C.
To Oakland
N17°-57'-48"E.
To Walnut Creek
Double Blocked Out Metal Beam Barrier
Match Line
Begin Double Blocked-Out Metal Beam Barrier
A4 LINE
OFF RAMP
ON RAMP
Pneumatic Pop-ups
NO CONSTRUCTION CHANGES
CONTRACT No. 04-279734
DATE ACCEPTED Jan. 12, 1966
AS BUILT
RESIDENT ENGINEER D.R. Holm
REVISIONS BY
DATE
DELINEATED BY
DEL
CHECKED BY
DATE
Note: See Bridge As Builts
SHEET LC-12 OF 37
BRIDGE DEPARTMENT
DESIGN SECTION 13
Section Supervisor RPHackett
Project Designer T. Tsukiji
DESIGN T. Tsukiji 11/63 T. Pollock 3-64
DETAILS R. McKenzie 11/63 T. Pollock 3-64
LAYOUT T. Tsukiji 3/64 T. Pollock 3-64
QUANTITIES R. Blanchette 3/64 R. McKenzie
SPECIFICATIONS
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
CALDECOTT TUNNEL LANE CONTROL
LOCATED ON WEST APPROACH TO CALDECOTT TUNNEL IN ALAMEDA COUNTY
GENERAL LAYOUT - WEST APPROACH
SCALE AS NOTED
BRIDGE 28-15
FILE
DRAWING 28-15-89
FOR GENERAL NOTES SEE
LIVE LOADING H20-S16-44 AND ALTERNATIVE



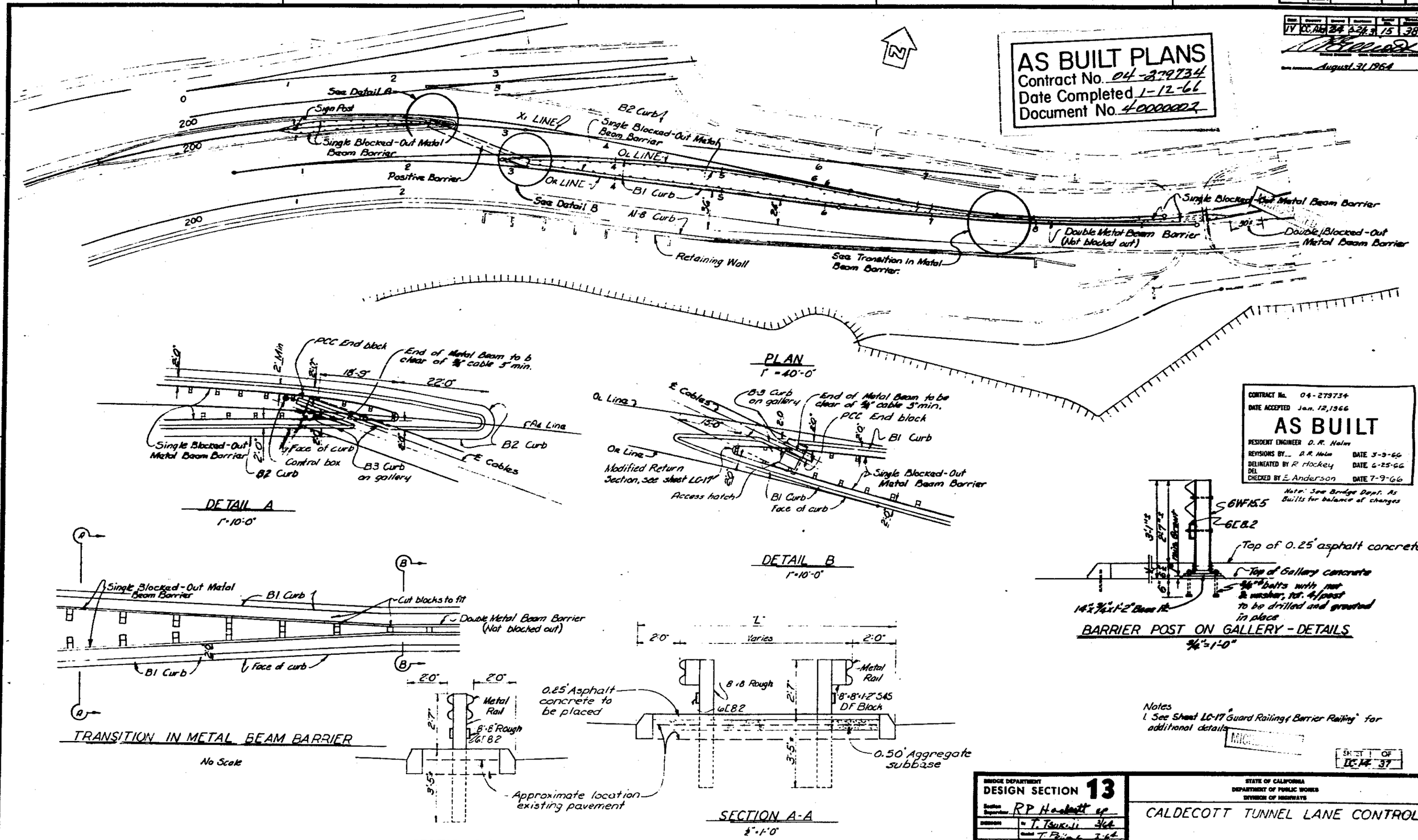
August 31, 1964
To Oakland
To Walnut Creek
Match line
For details of Double Blocked Out Metal Beam Barrier at Median Obstructions, see "Guard Railing & Barrier Railing" Sheet LC-17
End Double Blocked-Out Metal Beam Barrier Sta 172+00.00
PLAN
1" = 50'
Double Blocked-out Metal Beam Barrier
Varies - See Plan
Shoulder
Edge of Pav't.
2" G.I. pipe
Airlines, conduits, & junction box.
8" GI pipe
TYPICAL SECTION OF POP-UP
½" = 1'-0"
NO CONSTRUCTION CHANGES
Note: See Bridge As Builts
Concrete island paving 0.25' thick
Pneumatic Pop-Ups 50' on center
Positive Barrier
OFF RAMP
ON RAMP
Double Blocked-out Metal Beam Barrier
Asphalt concrete surfacing
Match Line
POSITION OF POP-UPS
All distances shown are measured normal to A7 Line.
Stationing of Pop-Ups is along A7 Line.
A7 149+50 to A7 152+50 - Pop-Ups on 50' centers.
A7 153+00 to A7 171+00 - Pop-Ups on 50 centers.
LEGEND
Indicates distance from ℄ Pop-Up to A7 Line.
Indicates 2" ϕ G.I. Pipe by others.
Indicates control boxes; for locations see Electrical layout.
¾" Tension cables w/ ½" clamps
2¼"x4.1# H Posts @ ± 8' Ctrs
POSITIVE BARRIER TYPICAL SECTION
Note: Reinforced concrete and metal galleries by others
AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002
CONTRACT No. 04-279734
DATE ACCEPTED Jan. 12, 1966
AS BUILT
RESIDENT ENGINEER D. R. Holm
REVISIONS BY
DELINEATED BY
CHECKED BY
DESIGN SECTION 13
CALDECOTT TUNNEL LANE CONTROL
LOCATED ON EAST APPROACH TO CALDECOTT TUNNEL
GENERAL LAYOUT - EAST APPROACH
SCALE AS NOTED
28-15
2815-90

FED. ROAD DIST. NO.	STATE	F. A. PROJECT NO.	SHEET NO.	TOTAL SHEETS
7	CALIF.			

DIST.	SUBMITTED	DRAWN	CHECKED	SHEET NO.	TOTAL SHEETS
IV	CC, Alb	24	5.2/1.3	15	38

August 31, 1964

AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002



CONTRACT No. 04-279734
DATE ACCEPTED Jan. 12, 1966

AS BUILT

RESIDENT ENGINEER D. R. Holm
REVISIONS BY D. R. Holm DATE 3-9-66
DELINEATED BY R. Hockey DATE 6-25-66
DEL
CHECKED BY E. Anderson DATE 7-9-66

Note: See Bridge Dept. As Builts for balance of changes

Notes
1. See Sheet LC-17 "Guard Railing & Barrier Railing" for additional details

SHEET 1 OF
LC-14 37

BRIDGE DEPARTMENT
DESIGN SECTION 13
Section Supervisor RP Hackett
DESIGN by T. Tsukiji 3/64
Checked T. Pollock 3-64
DETAILS by Blanchette 3/64
Checked T. Pollock 3-64
QUANTITIES by Blanchette 3/64
Checked R. McKenzie 3/64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALDECOTT TUNNEL LANE CONTROL

WEST APPROACH — MEDIAN DETAILS

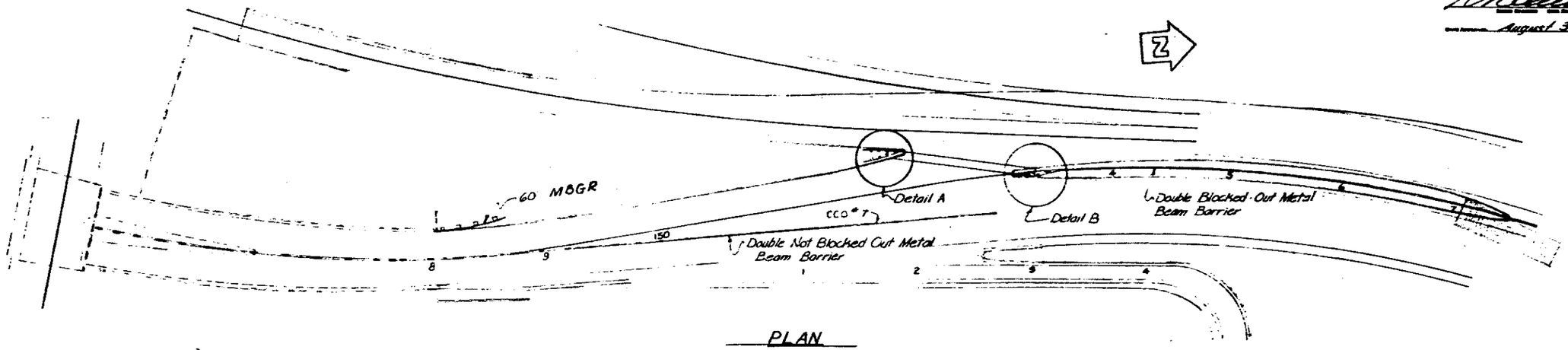
SCALE As Noted | BRIDGE 28-15 | FILE | DRAWING 2815-91

Disregard prints bearing earlier revision dates → P-

7	CALIF.				

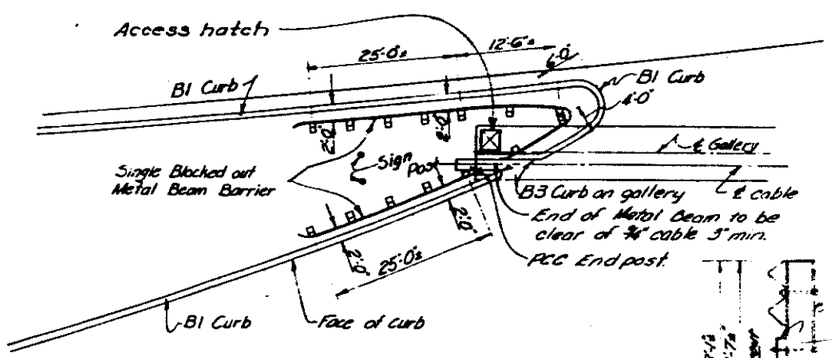
IV	CC	24	52/63	16	38

August 31, 1964

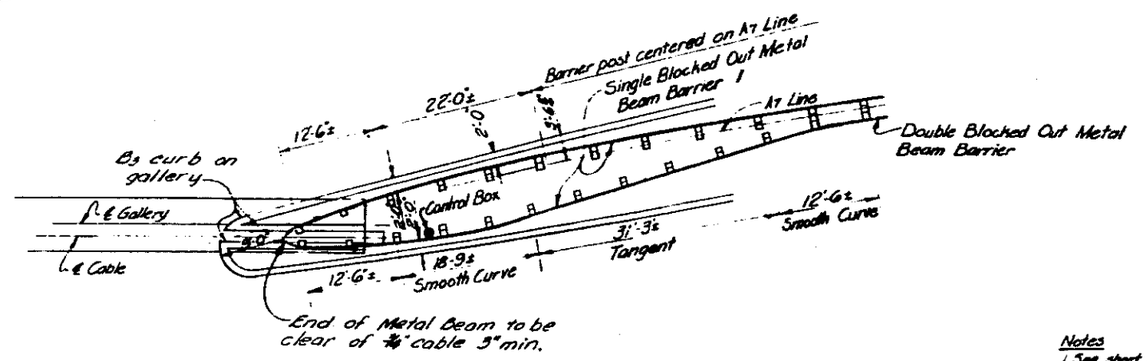


PLAN
1" = 50'-0"

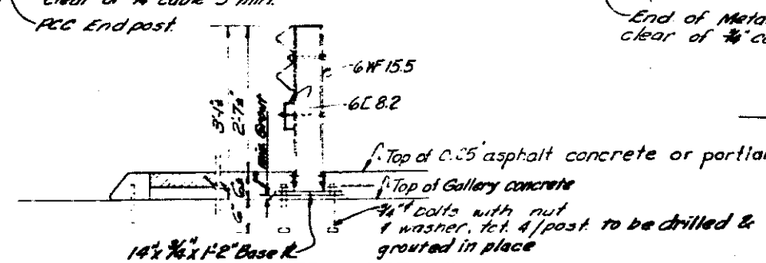
AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002



DETAIL A
1" = 10'-0"



DETAIL B
1" = 10'-0"



BARRIER POST ON GALLERY - DETAILS
¾" = 1'-0"

Notes
1. See sheet LC-17 "Guard Railing & Barrier Railing" for additional details.

CONTRACT No. 04-279734
DATE ACCEPTED Jan. 12, 1966
AS BUILT
RESIDENT ENGINEER D. R. Holm
REVISIONS BY D.R. Holm DATE 3-9-66
DELINEATED BY R. Hockey DATE 6-25-66
DEL
CHECKED BY E. Anderson DATE 7-9-66
Note: See Bridge Dept. As Builts for balance of changes

MICROFILMED

SHEET OF
LC-15 37

BRIDGE DEPARTMENT
DESIGN SECTION 13
Section Supervisor P.P. Hackett
DESIGN by T. Bukiji 3/64
Checked T. Pollock 3-64
DETAILS by Blanchette 3-64
Checked T. Pollock 3-64
QUANTITIES by R. Blanchette 3-64
Checked R. McKenzie 3/64

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

CALDECOTT TUNNEL LANE CONTROL

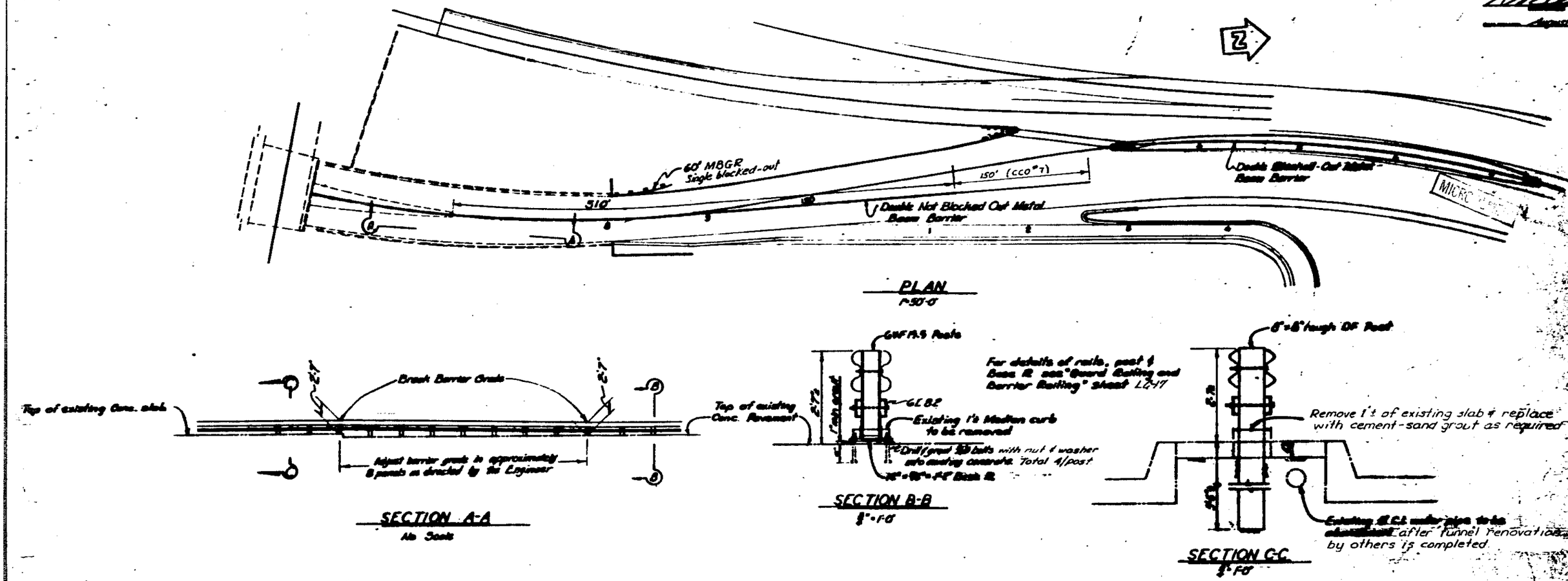
EAST APPROACH - MEDIAN DETAILS NO. 1

SCALE As Noted | BRIDGE 28-15 | FILE | DRAWING 2813-92

Disregard prints bearing earlier revision dates

PRELIMINARY DRAWING No. P-

REVISIONS DATES



Note: See Bridge Dept. for balance of changes

CONTRACT No. 04-279734
DATE ACCEPTED: Jan. 12, 19
AS BUILT
RESIDENT ENGINEER
REVISIONS BY
DELINEATED BY R. Hockey
CHECKED BY E. Anderson

Notes
1. See sheet LC-17 Guard Railing/Barrier Railing details.

AS BUILT PLANS
Contract No. 04-279734
Date Completed 1-12-66
Document No. 40000002

MICROFILMED

DESIGN SECTION 13

R.P. Hockett

T. Tsukiji 3/64
T. Pollock 3-64
T. Pollock 3-64
R.L. Bianchetti 3-64
R. McKenzie 3/64

CALDECOTT TUNNEL LANE CONTROL

EAST APPROACH MEDIAN DETAILS