

Reconstruction Deck Surfacing (Contract No. 04-4033)

The as-built drawings, which are contained in these CDs, are scanned from drawings of the existing structure for the convenience of the contractor and as a means to convey to the contractor the available information regarding the existing structure. It is to be understood that no claim is being made as to the accuracy or completeness of the said information and that the State of California or its officers or agents shall not be responsible for the manner in which the contractor interprets and uses this information or for the accuracy, currency or completeness of these scanned as-built drawings. The contractor shall be responsible to obtain, at the contractor's expense, any additional information that the contractor deems necessary for completely and accurately assessing the existing conditions of the structure. The contractor shall not be entitled to any compensation for any claim arising from inaccuracy or insufficiency of these as-built drawings or in anyway related to these drawings.

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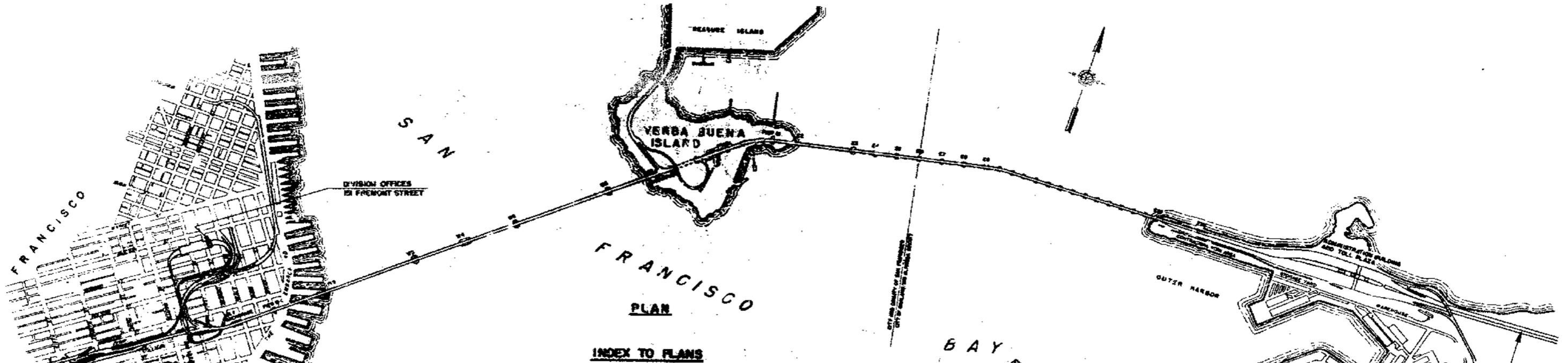
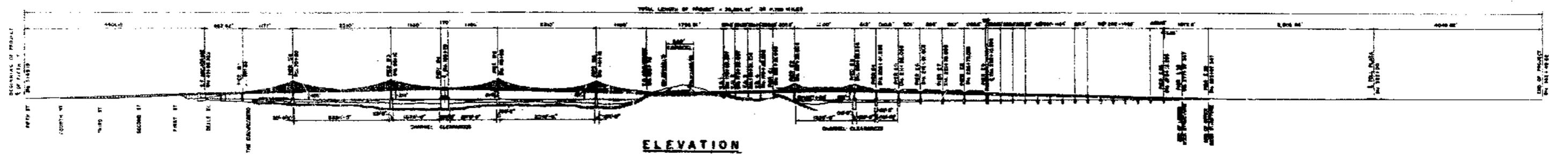
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STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING**

PROJECT PLAN AND ELEVATION

DATE	DESCRIPTION	BY	CHK
11-25-52			
12-03-52			

SCALE 1"=1000' BRIDGE 34-04 SHEET NO. 1 DRAWING C-4033-1R

LIMIT OF CONTRACT
 STA. 5+65.19

LIMIT OF CONTRACT
 STA. 362+49.62

GENERAL NOTES - ALL WORK

PLANS:

1. Section numbers used in specifications refer to the particular Standard Specification Sections as prepared by the Division.

NEW AND STATE-FURNISHED MATERIALS

2. Full compensation for furnishing and installing any new materials and doing all the work required to adapt new or State-furnished materials to locations shown on the plans shall be included in the prices paid for the various items of work. Wherever suitable State-furnished materials are not available, the Contractor shall provide new materials as required in accordance with the specifications.

CLEANING AND PAINTING

3. Cleaning and painting of timber barriers, traffic strips, temporary traffic strips, double metal beam guard railing, and internally illuminated signs shall conform to the requirements of the respective bid item descriptions and are excluded from the steel cleaning and painting schedule.

State-furnished electrical equipment installed in the substation with sound paint or galvanizing, sign panels, stainless steel, cast iron, new galvanized materials in the substation, and steel imbedded in concrete need not be cleaned or painted and are excluded from the steel cleaning and painting schedule.

Cleaning and painting of electrical work shall conform to the applicable requirements of Sections 32, 33, 63, and 64, as modified herein. All other cleaning and painting shall conform to the applicable requirements of Sections 32 and 33 as modified herein.

STEEL CLEANING AND PAINTING SCHEDULE

Description of Surface	Cleaning and Painting Systems Required
New galvanized materials outside of the substation	I-a
New ungalvanized materials outside of the substation	II-a
State-furnished galvanized and ungalvanized materials outside of the substation	II-a
New ungalvanized electrical materials in the substation and State-furnished electrical materials installed in the substation under this contract with no existing paint, with damaged paint or with corroded metal underlying paint or galvanizing as evidenced by blistering of the paint or galvanizing or by widely distributed rust spots.	II-c

Cleaning systems in the steel cleaning and painting schedule are: I, steam cleaning; II, sandblast cleaning or water blast as approved by the Engineer.

Painting systems in the steel cleaning and painting schedule are as follows:

- Before erection: one coat 52-G-52, two coats 52-G-53, additional coats 52-G-53 as required to provide a maximum elapsed time between coats of six weeks and after erection: one spot coat 52-G-53 and one coat 54-G-80. At the Contractor's option system "b" may be used.
- After erection: one coat 52-G-52, two coats 52-G-53, and additional coats of 52-G-53 as required to provide a maximum elapsed time between coats of six weeks, and one coat 54-G-80.
- One coat 52-G-52, and two coats 54-G-32 pigmented to match ASA No. 61, light gray or, at the Contractor's option, a factory applied Laked enamel finish, ASA No. 62, light gray, applied to sandblasted and phosphatized surfaces may be used (unless otherwise directed by the Engineer).

* Except that pole interiors and other inaccessible areas shall be cleaned and painted before erection.

CLEANING AND PAINTING (Cont'd)

Paint designations are State specifications.

Paint, if sprayed on, shall be brushed out around rivets and bolt heads and exposed edges to avoid bridging over crevices and to ensure even paint coats of the specified thickness.

Full compensation for all cleaning and painting required as shown on the plans and as specified is included in the unit and lump sum prices paid for the various bid items and no additional compensation will be allowed therefor.

ELECTRICAL WORK

4. Electrical work shall conform to the requirements of Sections 60 and 61 as modified herein and on the plans.

Electrical work shall be coordinated with traffic stages shown on the plans.

Welding shall conform to the applicable requirements of Section 67.

Full compensation for galvanizing required for electrical work is included in the lump sum and unit prices paid for the various bid items for electrical work.

All ferrous fastenings and supports shall be hot-dip galvanized. The Contractor shall furnish and install all fastenings and supports required to provide conduit, wire, and cable complete in place and in operable condition and full compensation therefor shall be included in the prices paid for the various conduit, wire, and cable items of work.

The interior of each existing conduit shall be clean before installation of cable or wire, and full compensation for required cleaning shall be considered as included in the price paid per linear foot for the cable or wire to be installed.

No. 12 AWG galvanized pull wire shall be installed in all runways and conduits which are to receive future conductors under this or other contracts.

The Contractor shall furnish and install an approved insulating material between dissimilar metals to prevent galvanic action.

Full compensation for all additional labor and materials not shown on the plans or called for herein and for furnishing and installing materials shown on the plans but not covered under specific bid items but which are necessary to provide the electrical work complete and in satisfactory operating condition shall be considered as included in the prices paid for the electrical work or units thereof, and no additional compensation will be allowed therefor except that excavation, backfill, concrete, reinforcing steel and concrete removal will be measured and paid for under the respective bid items for such work. The use of State-furnished materials does not relieve the Contractor of his responsibility to provide the electrical systems complete and in satisfactory operating condition.

All new materials and equipment in electrical and mechanical work furnished by the Contractor shall match existing materials in the project.

The Contractor shall furnish and install bonding and grounding systems complete in place in accordance with the requirements of Section 60, Chapter 11, and full compensation therefor will be included in the lump sum and unit prices paid for the various electrical bid items.

Neoprene or polyurethane, wherever required, shall be formulated to withstand long term compressive stresses and exposure to sunlight, marine atmosphere, gasoline and oil fumes, and shall be an effective protection against electrolytic action between dissimilar metals.

GALVANIZING

5. Galvanizing, except for rigid steel conduit, shall conform to the requirements of Section 31. Damaged galvanized surfaces shall be repaired by re-galvanizing or, if permitted by the Engineer, by wire brush cleaning and painting with two coats of paint conforming to the requirements of Military Specification MIL-P-21035.

NO.	BID ITEM	QUAN.	UNIT	DESCRIPTION
1	timber barriers.	26	each	Shall consist of furnishing and initially installing new timber barrier required for public convenience in accordance with the details shown on the plans and the following requirements: Douglas fir shall be construction grade. Exposed surfaces of the barriers shall be painted with two coats of yellow paint similar or equal to State Specification 54-G-13. Timber barriers required for public safety shall be provided by the Contractor as required by the Standard Specifications and will not be measured for payment but full compensation therefor is included in the contract prices paid for the various items of work.
2	moving timber barricades and barriers.	3,640	each	Shall consist of each movement required for public convenience of a State-furnished barricade or a new barrier together with signs attached thereto as indicated by the Engineer. The initial installation of a State-furnished barricade furnished for public convenience will be measured and paid for as one move. Removal and storage of each timber barricade or barrier furnished for public convenience and actually removed and stored will be measured for payment as one move. The unit price paid for this bid item shall include full compensation for repairing and maintaining all new and State-furnished barricades and barriers required for public convenience. Moving timber barricades for public safety will not be measured for payment but full compensation therefor will be included in the contract prices paid for the various items of work. State-furnished barricades are available on the bridge near the locations where they will be used.
3	removing traffic strips.	21,920	linear feet	Shall consist of removing traffic strips and roadway markings as directed by the Engineer for public convenience by sandblasting, burning, or other approved methods unless specifically provided under this bid item for temporary traffic strips and removing bituminous concrete median strip. Removing traffic strips under this item will be measured and paid for as linear feet of four inch traffic strips removed, not including gaps, and removing roadway markings under this item will be measured and paid for as equivalent area of traffic strips removed. Traffic strips and roadway marking removal necessary for public safety shall be performed by the Contractor as required by the Standard Specifications and will not be measured for payment but full compensation therefor will be included in the contract prices paid for the various items of work.
4	traffic strips.	31,840	linear feet	Shall consist of furnishing and applying traffic strips and roadway markings as shown on the plans or as directed by the Engineer for public convenience except as specifically provided under this bid item for temporary traffic strips. Traffic line paint provided under this item shall be applied to clean, dry surfaces in accordance with the requirements of Sections 32 and 33, and will be measured and paid for as linear feet of four inch traffic strips, not including gaps. Roadway markings, curb markings, and stripes of other than four inch width will be measured and paid for as equivalent area of traffic strips. Traffic strips necessary for public safety shall be provided by the Contractor as required by the Standard Specifications and will not be measured for payment but full compensation therefor will be included in the contract prices paid for the various items of work.
5	temporary traffic strips.	31,840	linear feet	Shall consist of furnishing, placing, maintaining, and removing paint or tape for temporary traffic strips or for obliterating tile lane markers when such work is specifically called for on the plans in the following provisions, all as shown on the plans and as specified, including: temporary two-way barrier stripes applied during Stage I; on the upper deck; temporary single breaker traffic strips between lanes 2 and 3 applied immediately before Stage I; and obliterating tile lane markers immediately before Stage I. Paint shall not be used on freshly applied epoxy coal-tar pavement surfacing but a tape which can be pulled off without damage to the epoxy coal-tar pavement surfacing and which meets all other requirements of this item shall be used. Paint or tape for temporary traffic strips shall be similar in color to white traffic line paint, State Specification 59-G-95, yellow traffic paint, State Specification 59-G-98, or black traffic line paint, State Specification 59-G-96, as designated on the plans. The paint or tape shall be of such a type that it will not wear off or discolor or contaminate adjacent pavement during the period that temporary traffic strips or obliteration of tile lane markers is required. All paint or tape placed under this item shall be removed in such a way that no trace of paint, tape, adhesive, or solvents used in its removal will remain on the pavement. The Contractor shall submit a description of the material to be used and of his proposed method of placing and removing for approval by the Engineer and no work shall be done until such approval is granted. Measurement will be by the linear foot of four inch wide paint or tape strips furnished, placed, maintained, and removed as shown on the plans and as specified, not including gaps, for temporary traffic strips or for obliterating tile lane markers.

NO.	BID ITEM	QUAN.	UNIT	DESCRIPTION
6	removing concrete	42.6	cubic yards	Shall conform to the requirements of Section 10 and shall consist of all concrete removed not specifically provided under other bid items, all as shown on the plans and as specified. The quantity to be measured will be computed from plan dimensions or, if such dimensions are not shown, field measurements will be used. Removed materials shall be placed on the East Bay Mole between Piers 6-23 and 6-28 in locations designated by the Engineer.
7	removing bituminous concrete median strip and raised traffic bars.	21,920	linear feet	Shall conform to the requirements of Section 10 and shall consist of removing bituminous concrete median strip and raised traffic bars in locations shown on the plans or designated by the Engineer, including sandblasting as required to remove all traces of asphalt, paint, and other foreign materials and to expose a clean surface of sound concrete, topping, or tile lane markers. Removed materials shall be placed on the East Bay Mole between Piers 6-23 and 6-28 in locations designated by the Engineer. Measurement will be by the linear feet of bituminous concrete median strip or raised traffic bar removed, along the centerline before removal.
8	removing and storing signs.	2,038	square feet	Shall conform to the requirements of Section 10 and shall consist of removing and storing signs together with their supports and fastenings as shown on the plans and as specified. Removing and storing signs with neon lights will be measured and paid for under this bid item. Removing and storing conduit, wire, switches, transformers, light fixtures, lamps, and other sign lighting materials will be measured and paid for under Bid Item 10. Materials designated to be removed and stored shall be removed with all reasonable care, cleaned of all foreign material, ready for reuse, and stored in the Division's Warehouse on the East Bay Mole in locations to be designated by and as directed by the Engineer. Any materials which are unnecessarily damaged by the Contractor or by others under his control shall either be repaired or replaced in kind at the Contractor's expense. Signs shall be stored with their supports and illumination equipment in convenient units for reassembly and use.
9	removing pole mounted luminaire assemblies.	4	each	Shall conform to the requirements of Section 10 and shall consist of removing double arm and single arm sodium vapor luminaires, main poles and poles, together with all transformers, transformer bases, fastenings, and all other appurtenances, except that removal of secondary wiring will be measured and paid for under Bid Item 10. Removal of anchor bolts embedded in concrete will not be required. All materials removed and not reinstalled shall be stored. Materials removed under this item and reinstalled under the bid item for installing State-furnished pole mounted luminaire assemblies shall be measured and stored under this item shall be removed with all reasonable care and cleaned of all foreign material, ready for reuse. Materials designated to be stored shall be stored in the Division's Storage Yard on the East Bay Mole in locations to be designated and as directed by the Engineer. Any materials which are unnecessarily damaged by the Contractor or by others under his control shall either be repaired or replaced in kind at the Contractor's expense. Measurement will be by the number of luminaire poles removed as shown on the plans and as specified.
11	removing and storing miscellaneous iron and steel and miscellaneous electrical materials.	6,097	pounds	Shall consist of removing sign support structure, wire, conduit, sign illumination installations including lamps, and all other ferrous and electrical materials designated on the plans to be removed and not specifically covered under other bid items, together with their supports and fastenings, and storing all materials not immediately re-used, all as shown on the plans and as specified. Remaining stubs of removed conduit shall be capped and full compensation therefor is included in the unit price paid for this bid item. Removed wire shall be neatly coiled and stored in bins in the Division's Warehouse. Measurement will be by the gross, scale weight. Materials designated to be removed and stored shall be removed with all reasonable care, cleaned of all foreign material, and stored in the Division's Storage Yard on the East Bay Mole in locations to be designated and as directed by the Engineer immediately after removal. Materials designated to be stored shall be segregated according to size, shape, type, or other category and shall be properly identified by tag, stencil mark, or other means approved by the Engineer. All bolts shall be stored with washers on and nuts run down. Removal of sign support structures specifically provided under Bid Item 8 will not be measured under this item.

**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

CONTRACT WORK - BID ITEMS 1 TO 10

DATE	BY	CHK

PAGE 2 OF 2

MARK	DATE	DESCRIPTION	BY	CHK

NO	BID ITEM	QUAN.	UNIT	DESCRIPTION																
11	Regrading between Piers E-23 and E-28.		Lump Sum	<p>End or side dumping will be permitted.</p> <p>Sufficient fine material may not be available to fill interstices between rocks and lumps. Insofar as is practical without encroaching, the fine material shall be placed on top of and on the sides of the dikes.</p> <p>No compaction of embankment beyond that provided by hauling equipment traversing the embankment to haul and place material will be required.</p> <p>In lieu of article (e), "Payment," of Section 13, Chapter V, the following is substituted. Full compensation for furnishing all labor, materials, tools, and equipment, and doing all work involved in excavating, loading, hauling, and placing the designated materials and constructing embankments including dikes in place as shown on the plans and as specified is included in the lump sum price paid for this item and no additional compensation will be allowed therefor.</p> <p>Relative compaction of natural ground. Placement of backfill material in layers. Watering, cutting, plowing, or benching into slopes of hillside or existing embankment before placing new embankments. Maximum size of plant material. Relative compaction of fine-grained embankment. Moisture content of embankment material. Use of compacting equipment.</p>																
12	roadway excavation.	100.0	cubic yards	<p>Shall conform to the requirements of Section 13, Chapter II. Classes shall be Class A. Materials removed and not re-used shall be disposed of between Piers E-23 and E-28 in locations designated by the Engineer.</p>																
13	structure excavation.	100.0	cubic yards	<p>Shall conform to the requirements of Section 13 and will be measured as shown on the plans. All holes resulting from the removal of structures shall be backfilled to the existing ground elevation or to the subgrade elevation if the subgrade elevation is below that of the existing ground.</p>																
14	structural backfill.	100.0	cubic yards	<p>Water shall be applied in accordance with the requirements of the Standard Specifications governing this work, but full compensation therefor is included in the price or prices paid for this work.</p>																
15	imported borrow.	0	cubic yards	<p>Shall conform to the requirements of Section 13 and shall consist of furnishing, placing, and compacting imported borrow as shown on the plans and as specified. Material used for imported borrow under this bid item shall be free from vegetable matter and other deleterious substances, shall be of such character that it will readily bind to form a firm stable roadbed, and shall have a resistance value (R-value) of not less than 25.</p> <p>No adjustment to the unit price paid for this item will be made because of an increase or decrease of more than 25 percent in the contract quantities.</p> <p>Water shall be applied in accordance with the requirements of the Standard Specifications governing this work, but full compensation therefor is included in the price or prices paid for this work.</p>																
16	mineral aggregate (open-graded plant-mixed surfacing).	1,000.00	tons	<p>Plant-mixed surfacing shall conform to the requirements of Section 20.</p> <p>Mineral aggregate for Type A plant-mixed surfacing shall be 1 1/2-inch maximum. Mineral aggregate for open graded plant-mixed surfacing shall conform to the following gradation:</p> <table border="1"> <thead> <tr> <th>Sieve Size</th> <th>Percentage Passing Sieve</th> </tr> </thead> <tbody> <tr> <td>1 1/2"</td> <td>100</td> </tr> <tr> <td>3/4"</td> <td>90-100</td> </tr> <tr> <td>3/8"</td> <td>45-80</td> </tr> <tr> <td>No. 4</td> <td>20-40</td> </tr> <tr> <td>No. 8</td> <td>12-25</td> </tr> <tr> <td>No. 15</td> <td>0-12</td> </tr> <tr> <td>No. 200</td> <td>0-3</td> </tr> </tbody> </table>	Sieve Size	Percentage Passing Sieve	1 1/2"	100	3/4"	90-100	3/8"	45-80	No. 4	20-40	No. 8	12-25	No. 15	0-12	No. 200	0-3
Sieve Size	Percentage Passing Sieve																			
1 1/2"	100																			
3/4"	90-100																			
3/8"	45-80																			
No. 4	20-40																			
No. 8	12-25																			
No. 15	0-12																			
No. 200	0-3																			
17	mineral aggregate (Type A plant-mixed surfacing).	600.00	tons	<p>Bituminous binder to be mixed with mineral aggregate shall be Grade 25-100 paving asphalt conforming to the requirements of Section 56.</p>																
18	paving asphalt (plant-mixed surfacing).	600.00	tons	<p>Bituminous binder for paint binder, curing seal for cement treated base, and for seal coat shall be a penetration type asphaltic emulsion conforming to the requirements of Section 56.</p> <p>Application shall be as specified in Sections 14, 20, and 21 except that for open graded plant-mixed surfacing the amount of bituminous binder to be used to the mineral aggregate shall be between three and four percent by weight of the dry mineral aggregate.</p> <p>Where planing of existing plant-mixed surfacing is required to provide minimum depth of new plant-mixed surfacing of 0.08 feet for Type A plant-mixed surfacing and 0.17 feet for open graded plant-mixed surfacing, such planing shall be performed by the Contractor and full compensation therefor is included in the price paid for this item for plant-mixed surfacing.</p> <p>Water shall be applied in accordance with the requirements of the Standard Specifications governing this work, but full compensation therefor is included in the price or prices paid for this work.</p>																
19	liquid asphalt, SC-1 (prime coat).	100.0	tons	<p>Application shall be as specified in Sections 14, 20, and 21 except that for open graded plant-mixed surfacing the amount of bituminous binder to be used to the mineral aggregate shall be between three and four percent by weight of the dry mineral aggregate.</p>																
20	asphaltic emulsion (paint binder and seal coat).	40	tons	<p>Application shall be as specified in Sections 14, 20, and 21 except that for open graded plant-mixed surfacing the amount of bituminous binder to be used to the mineral aggregate shall be between three and four percent by weight of the dry mineral aggregate.</p>																

NO	BID ITEM	QUAN.	UNIT	DESCRIPTION																																																				
21	screening, medium (seal coat).	100	tons	<p>Shall conform to the requirements of Section 23 for medium screenings.</p>																																																				
22	epoxy grout patching.	1,000.00	square feet	<p>Shall conform to the requirements of Section 99 subject to the following modifications and additional requirements.</p> <p>The Contractor shall remove all loose or broken lane marker tiles, lane marker tiles projecting 1/8 inch or more above the level of the concrete deck, and all other lane marker tiles specifically designated by the Engineer to be removed, and full compensation therefor is included in the price paid per square foot for epoxy grout patching required as a result thereof.</p> <p>Equipment and procedures to be used for tile removal are subject to approval by the Engineer and no work shall be done until such approval has been granted.</p> <p>No adjustment to the unit price paid for this item will be made because of an increase or decrease of more than 25 percent in the contract quantities.</p>																																																				
23	epoxy coal-tar and fine aggregate pavement surfacing.	10,000.00	square yards	<p>Shall conform to the requirements of Section 100 with the following modifications and additions.</p> <p>Removal of lane marker tiles and weak concrete on the deck surface, where required, and repair of depressions, holes, and cracks is provided under the bid item for epoxy grout patching. Removal of asphalt concrete median strip and traffic stripe is provided under the respective bid items.</p> <p>Existing pavement surfacing test patches in locations shown on the plans shall be removed by methods approved by the Engineer before cleaning of such areas is started so that a clean surface of the underlying concrete or topping is exposed. Such work shall not be measured, but full compensation therefor is included in the unit price paid for this item. Removed materials shall be disposed of between Piers E-23 and E-28 in locations designated by the Engineer.</p> <p>Materials and application shall be such that the specified penetrometer hardness will be developed by the surfacing under the particular temperature and humidity conditions prevailing at the site so that after surfacing operations have been completed lanes designated to be open to traffic may be opened within the specified time limit.</p> <p>As an indication of the temperatures which may be encountered, the following tabulation of San Francisco average high, average low, and average temperatures: °F, has been obtained from the U. S. Weather Bureau.</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Av. High</th> <th>Av. Low</th> <th>Av.</th> </tr> </thead> <tbody> <tr> <td>January</td> <td>55.4</td> <td>44.8</td> <td>50.1</td> </tr> <tr> <td>February</td> <td>56.7</td> <td>47.1</td> <td>51.0</td> </tr> <tr> <td>March</td> <td>61.0</td> <td>48.7</td> <td>54.9</td> </tr> <tr> <td>April</td> <td>62.0</td> <td>49.4</td> <td>55.7</td> </tr> <tr> <td>May</td> <td>63.1</td> <td>51.1</td> <td>57.1</td> </tr> <tr> <td>June</td> <td>65.1</td> <td>52.9</td> <td>59.1</td> </tr> <tr> <td>July</td> <td>64.4</td> <td>53.4</td> <td>58.9</td> </tr> <tr> <td>August</td> <td>63.8</td> <td>53.2</td> <td>58.3</td> </tr> <tr> <td>September</td> <td>68.4</td> <td>54.8</td> <td>61.6</td> </tr> <tr> <td>October</td> <td>68.0</td> <td>54.0</td> <td>61.0</td> </tr> <tr> <td>November</td> <td>63.8</td> <td>50.6</td> <td>57.2</td> </tr> <tr> <td>December</td> <td>57.0</td> <td>46.8</td> <td>51.9</td> </tr> </tbody> </table>	Month	Av. High	Av. Low	Av.	January	55.4	44.8	50.1	February	56.7	47.1	51.0	March	61.0	48.7	54.9	April	62.0	49.4	55.7	May	63.1	51.1	57.1	June	65.1	52.9	59.1	July	64.4	53.4	58.9	August	63.8	53.2	58.3	September	68.4	54.8	61.6	October	68.0	54.0	61.0	November	63.8	50.6	57.2	December	57.0	46.8	51.9
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24	Class A concrete.	10,000.00	cubic yards	<p>Shall conform to the requirements of Sections 26, 27, and 36 except as otherwise specifically provided, and shall consist of all concrete required except as specifically included under other bid items.</p> <p>Each batch of ready-mixed concrete delivered at the job site, shall be accompanied by a ticket showing volume of concrete, the weight of cement in pounds, the weight of six water in pounds, and the total weight of all ingredients in pounds. The ticket shall also show the time of day at which the materials were batched and the reading of the revolution counter at the time the truck mixer was charged.</p> <p>Concrete shall be Class A and shall have a compressive strength of not less than 3,000 psi within 28 days.</p> <p>Reinforcing steel exposed by removal of concrete and required to extend into new concrete shall be carefully protected, shall be cleaned of all concrete and other foreign material, and shall be bent or cut as shown on the plans. Welding required to repair damaged steel shall conform to the requirements of Section 67.</p> <p>Full compensation for drilling holes and grouting dowels in place as required for construction of concrete curb is included in the unit price paid for this item. Preparation of concrete surfaces for bonding new concrete or grout shall be as provided under Bid Item 27. Grout shall be three parts sand and one part cement and only sufficient water to permit proper placement. Grout shall conform to the requirements of Sections 6 and 27 and shall develop a compressive strength of not less than 3,000 psi at the end of 28 days.</p>																																																				

NO	BID ITEM	QUAN.	UNIT	DESCRIPTION
25	precast concrete pull boxes, State No. 4.	7	each	<p>Shall conform to Section 6, and the details shown on the plans. Precast boxes shall be furnished and installed complete with reinforced concrete covers, all matching extensions required, drains, and grouted duct entries, and shall include furnishing and placing two to four cubic feet of filter material conforming to the requirements of Section 49 for Type II filter material. All conduit entering precast boxes shall be bonded, and full compensation for furnishing and installing the bonding wire shall be included in the price paid per linear foot for No. 6 AWG building wire.</p> <p>Precast concrete boxes shall be furnished with reinforced concrete lids with lettered or name imprint identification. Boxes shall have no less than one ten-inch reinforced concrete extension and shall be Christy Concrete Products, Type 2036, or equal, and shown on the plans as State No. 4.</p>
26	bar reinforcing steel.	10,000.00	pounds	<p>Shall conform to the requirements of Section 24 and shall be intermediate grade reinforcing steel. Structural grade deformed bars, where specifically designated on the plans will be measured and paid for under the bid item for structural steel.</p>
27	structural steel.	10,000.00	pounds	<p>Shall conform to the requirements of Sections 31 and 67 as modified herein and shall consist of furnishing and installing: sign support structures for internally illuminated signs; drop inlet frames, gratings, and step runs; structural grade bar reinforcing steel including its machining, shear lugs; and all other metals not specifically provided under other bid items, all complete in place as shown on the plans and as specified. Furnishing and installing new sign support structures for State-furnished signs will be paid for under bid item 29.</p> <p>Structural steel shall conform to the requirements of ASTM Designation A7 or A36 unless otherwise specified herein or on the plans. All structural steel to be welded shall conform to the requirements of ASTM Designation A36.</p> <p>Gratings shall be of one-piece pressure resistance welded construction such as Irving Subway Grating Co., Inc., Type IWA, or equal, and shall conform to the requirements of Federal Specification R6-C-61a. Grating cutouts and joints shall be properly reinforced and joints shall be fabricated so that, when assembled, full structural continuity will be obtained over the entire area.</p> <p>Sign frames 14, 15, and 16 shall be assembled so as to provide a sliding fit for ease of raising and lowering the sign assembly. The Contractor shall demonstrate that the installation functions properly and shall leave the assembly in the lowered position.</p> <p>Full compensation for drilling holes in concrete, grouting threaded reinforcing bars in place, grouting under bases, testing, and all other work required to provide the sign support structures complete in place as shown on the plans and as specified is included in the unit price paid for this item.</p> <p>All ferrous materials furnished and installed under this bid item shall be hot-dip galvanized after fabrication.</p> <p>All exposed surfaces of galvanized steel shall be steam cleaned and painted in accordance with Sections 32 and 33 and the following provisions. The paint system shall consist of one coat of pretreatment vinyl wash primer,</p>

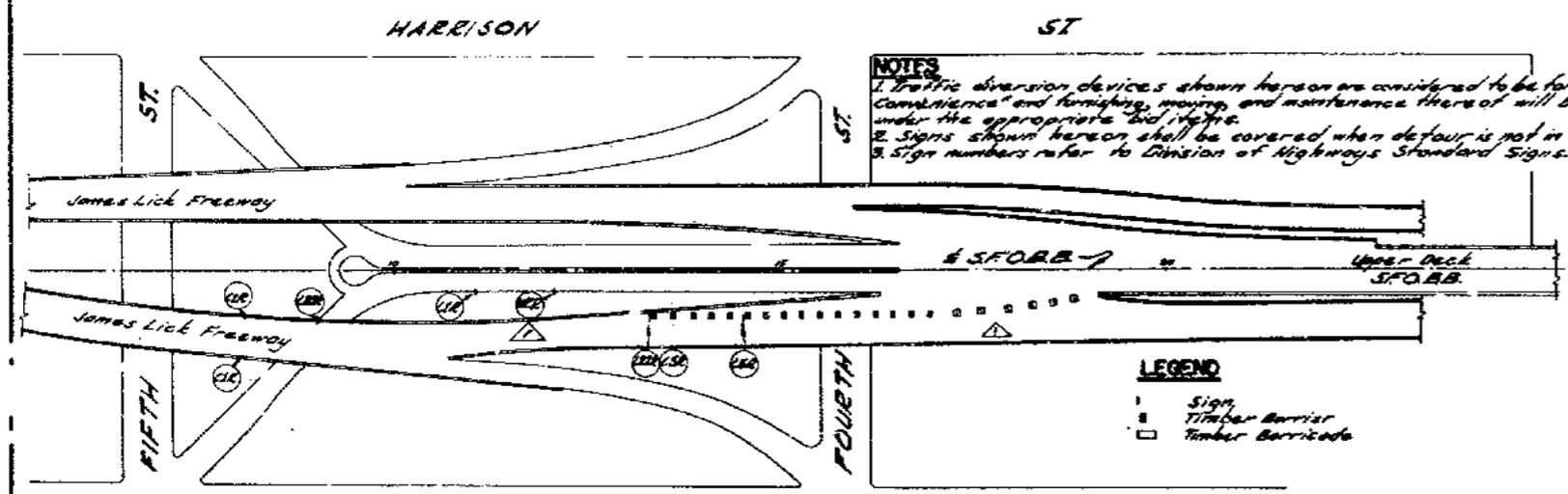
DATE APPROVED February 15, 1963

**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

CONTRACT WORK - BID ITEMS 11 TO 27

SCALE NONE BRIDGE 34-04 SHEET No. 3 DRAWING C-4033-3R

MARK	DATE	DESCRIPTION	BY	CHK



GENERAL DESIGN NOTES FOR SIGN STRUCTURES

DESIGN CODE:
Specifications for the Design and Construction of Structural Supports for Highway Signs by A.A.S.H.O.

DESIGN LOADS
Reinforced Concrete 150 pcf
Structural Steel 490 pcf
Aluminum 170 pcf

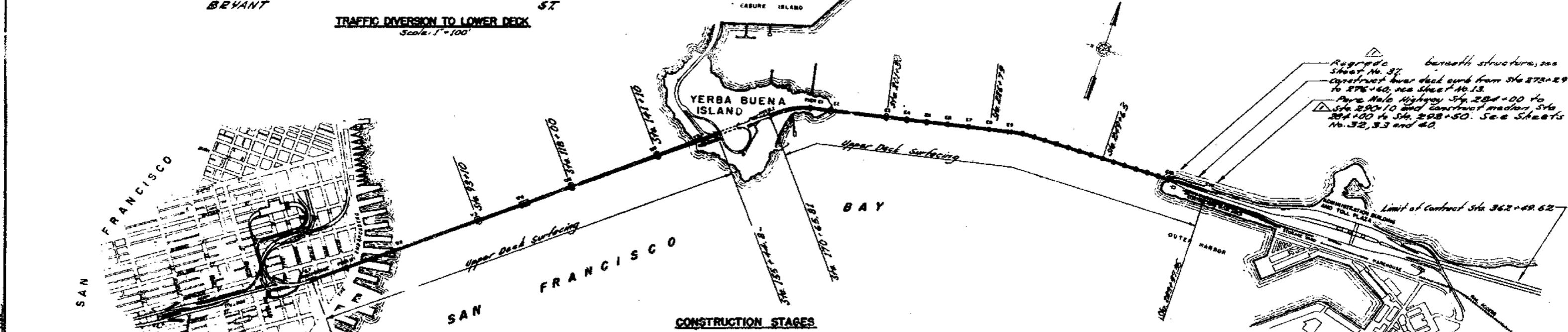
WIND LOADS
Wind loads are based on 80 miles per hour wind velocity.

REINFORCEMENT
Embedment shall be 2' clear to outside of any bar except as noted on the plans.

DATUM PLANE
Elevation datum is S.F. O.B.B. 1953
M.L.L.W. Datum (3.10' below USC&GS sea level datum of 1929)

EXISTING STRUCTURES
Dependent dimensions and elevations of the exist structures shall be verified in the field by the Contractor.

TRAFFIC DIVERSION TO LOWER DECK
Scale: 1" = 100'



CONSTRUCTION STAGES

time when the diversion is to be removed, the Engineer will notify the Contractor at which time the Contractor shall immediately move barricades and barriers as required to restore full access from the James Lick Freeway and the Fifth Street Approach to the upper deck of the bridge and remove all of his equipment and all other obstructions from all lanes of both decks of the bridge.

4. During the times when the diversion is in effect as provided in 3, above, the Contractor shall maintain open and unobstructed a minimum of three lanes in each direction. For eastbound traffic, the open lanes shall include not less than one lane on the upper deck and not less than one on the lower deck. For westbound traffic, there shall be not less than two open lanes on the upper deck and not less than one on the lower deck.

newly applied deck surfacing, until not later than 5:00 a.m. of the morning following the placement of the deck surfacing.

2. Lanes ① and ② as noted on plan may not be obstructed during Stage II.

deck shall be kept open and unobstructed by the Contractor.

6. Traffic shall be routed through paving operations between Stations 284+00 and 290+00.

During Stages III through IV, inclusive:

1. Bridge traffic shall be unidirectional on each deck.
2. The Contractor shall maintain open and unobstructed all lanes of both decks on Saturdays, Sundays, holidays, and special event days, and at all times not specifically excepted in 4 and 5 below.
3. At certain times on days other than Saturdays, Sundays, holidays, and special event days when reduction in traffic congestion permits, an authorized work period will be in effect. The Engineer will notify the Contractor at the time when the authorized work period begins. At the time when the authorized work period ends, the Contractor shall immediately remove all of his equipment and all other obstructions from all lanes of both decks of the bridge, except as otherwise specifically provided in 4, below.
4. One lane of the upper deck may remain obstructed after the authorized work period, to allow for curing newly applied deck surfacing, until not later than 5:00 a.m. of the morning following the placement of the deck surfacing.
5. During the authorized work periods described in 3, above, a minimum of three lanes on each

STAGE II

- A. Major items of work:**
1. Perform deck surfacing operations by lanes in the sequence shown on Sheet 6.
 2. Perform traffic striping operations.
 3. Unload signs and remove existing signs as indicated on the Sign Removal Schedules when making the switch from two-way traffic on each deck to one-way traffic on each deck.
- B. Traffic:**
- During Stages III through IV, inclusive:
1. Traffic limitations shall be as described in Stage I, above, except that one upper deck lane may remain obstructed after the diversion period, to allow for curing

STAGE I

- A. Major items of work:**
1. Striping work, including related structural and electrical work as indicated on the sign installation schedules, or approved temporary signs.
 2. Signs shall be headed as noted on Sheets 15, 16 and 10.
- B. Traffic:**
1. Two-way traffic shall be maintained on both decks at all times.
 2. The contractor shall maintain open and unobstructed all lanes of both decks on Saturdays, Sundays, holidays, and special event days, and at all times when the traffic diversion described in 3, below, is not in effect.
 3. At certain times on days other than Saturdays, Sundays, holidays, and special event days when reduction in traffic congestion permits all automobile traffic from the James Lick Freeway and Fifth Street Approach will be diverted to the lower deck of the bridge. The Engineer will notify the Contractor at the time when the diversion is to take effect whereupon the Contractor shall move barricades and barriers as required to block access from the James Lick Freeway and the Fifth Street Approach to the upper deck of the bridge. At the



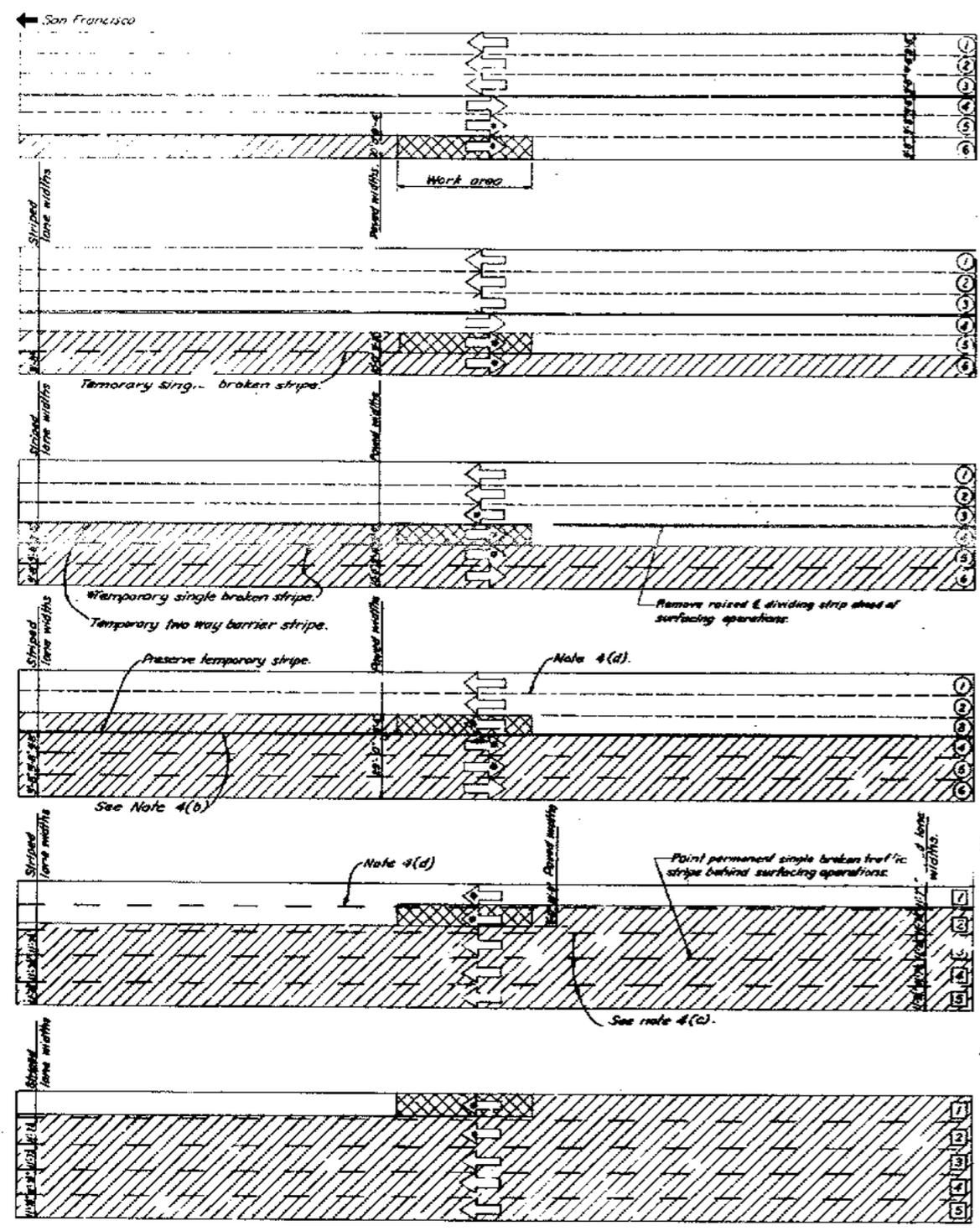
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING
GENERAL PLAN**

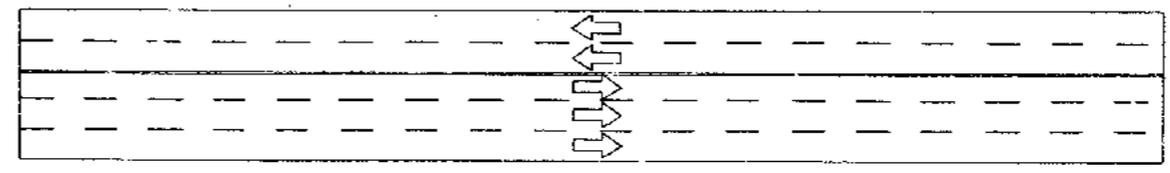
MARK	DATE	DESCRIPTION	BY	CHK
①	9-1-60	As built with revisions 253 SW1		

UNLESS NOTED SCALE 1" = 1000'

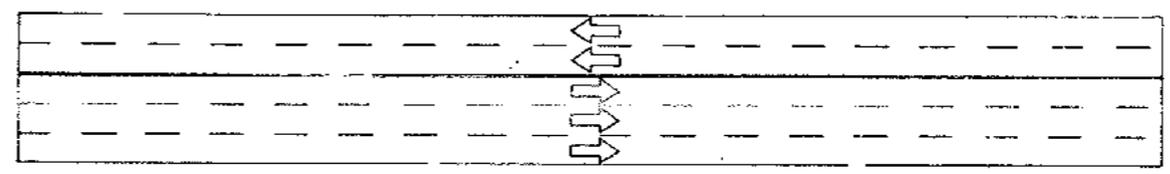
BRIDGE 34-04 SHEET NO. 5 DRAWING C-4023-BR



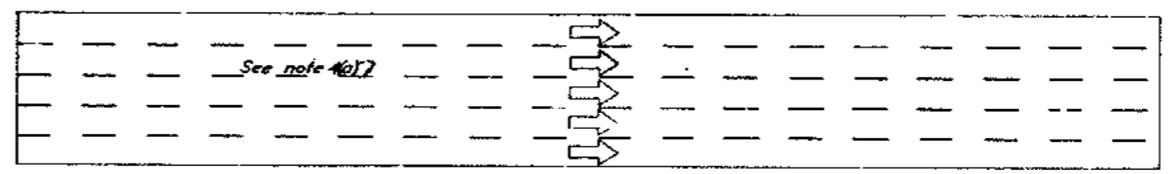
STAGE II a



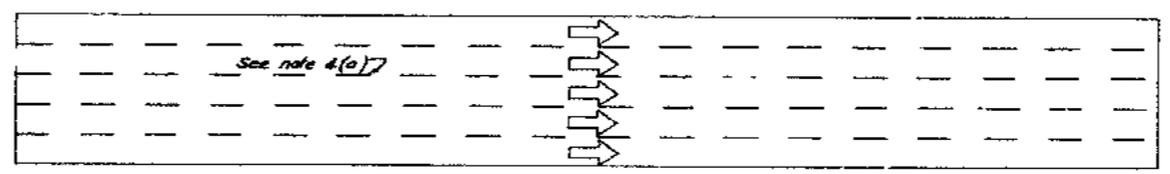
STAGE II b



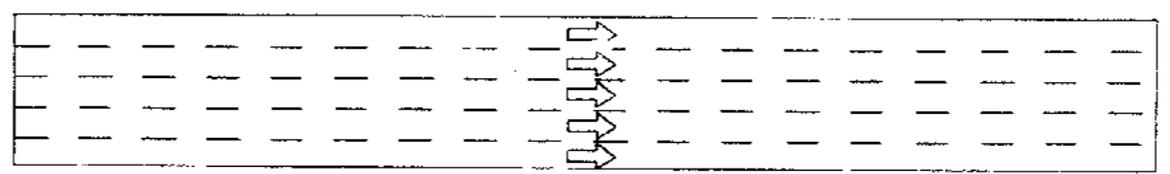
STAGE II c



STAGE II d



STAGE II e



STAGE II f

- NOTES**
- 1 See sheet No 5 for applicable construction stages and traffic requirements during construction stage II.
 - 2 The contractor shall provide all warning and safety devices that are necessary to direct traffic around or through the surfacing work area. All such devices and controls are considered to be for "Public Safety" as defined in the contract specifications.
 - 3 Deck surfacing operations shall be conducted, one lane at a time, in the sequence shown on this sheet.
 - 4 Immediately prior to the start of stage II a surfacing operations:
 - (a) Remove the existing barrier stripe on the lower deck and replace with a single broken stripe.
 - (b) Remove temporary barrier stripe between upper deck lanes ③ and ④, ④ and ⑤ and between upper deck lanes ⑤ and ⑥.
 - (c) Paint new permanent stripes between upper deck lanes ② and ③, ③ and ④ and ④ and ⑤.
 - (d) Obliterate file markers between upper deck lanes ① and ②. Place temporary single broken stripe between upper deck lanes ① and ②.
 - (e) Uncover permanent signing and remove existing signing as required.

- LEGEND**
- Completed deck surfacing
 - Deck surfacing operations in progress
 - Existing file lane markers
 - Two way barrier stripe
 - Single broken traffic stripe
 - Traffic lane open and unobstructed at all times See Note 1.
 - Traffic lane which may be obstructed during surfacing operations See Note 1.
 - Existing lanes.
 - Final lanes.



DATE	DESCRIPTION	BY	CHK
33-25	As built with revisions	SE	SEN
34-03			
34-04	REVISION		

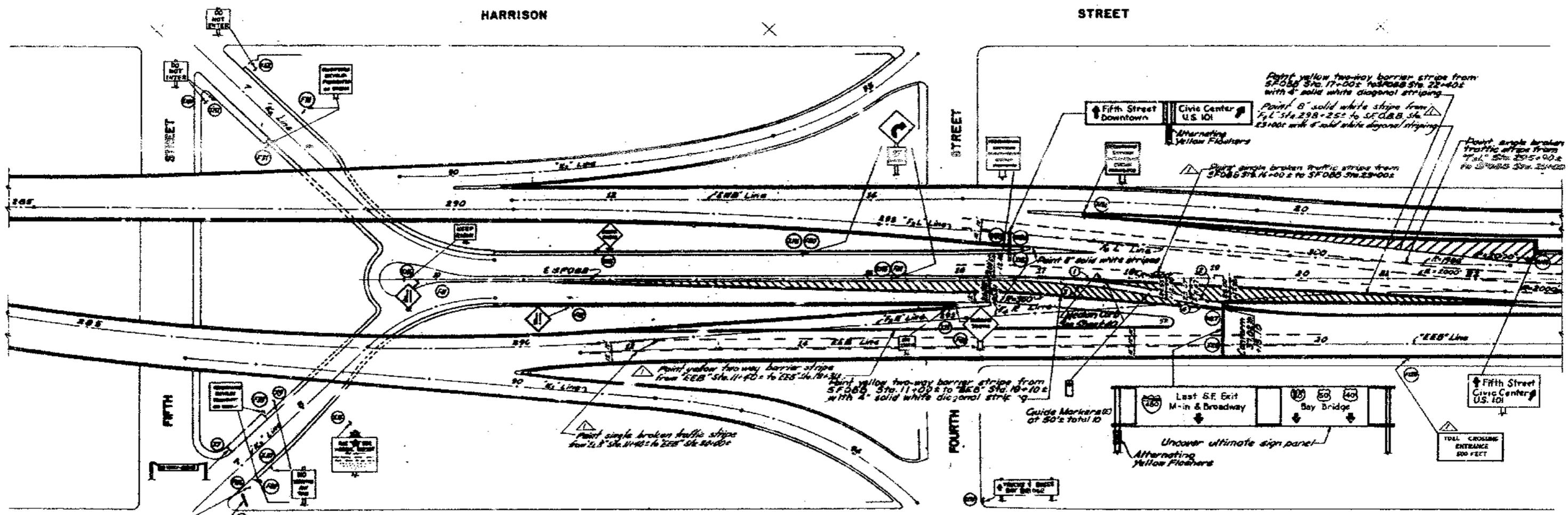
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO - OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

SURFACING SEQUENCE

SCALE NONE BRIDGE 34-04 SHEET NO. 6 DRAWING C-4033-6R

NO	R	Δ	L	T
1	1000	18° 18' 41"	831.46'	116.24'
2	200	13° 18' 41"	46.89'	82.28'
3	1000	11° 54' 37"	207.87'	102.94'
4	200	4° 11' 58"	13.30'	36.66'



APPROVAL RECOMMENDED BY: [Signature]

NO.	DATE	DESCRIPTION
1	1/15/65	ISSUED FOR CONSTRUCTION
2	1/20/65	REVISIONS
3	1/25/65	REVISIONS
4	2/10/65	REVISIONS



SUPPLEMENTAL CONTRACT DRAWING

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING

PLAN-STA. 6 +00 TO STA. 23 +00

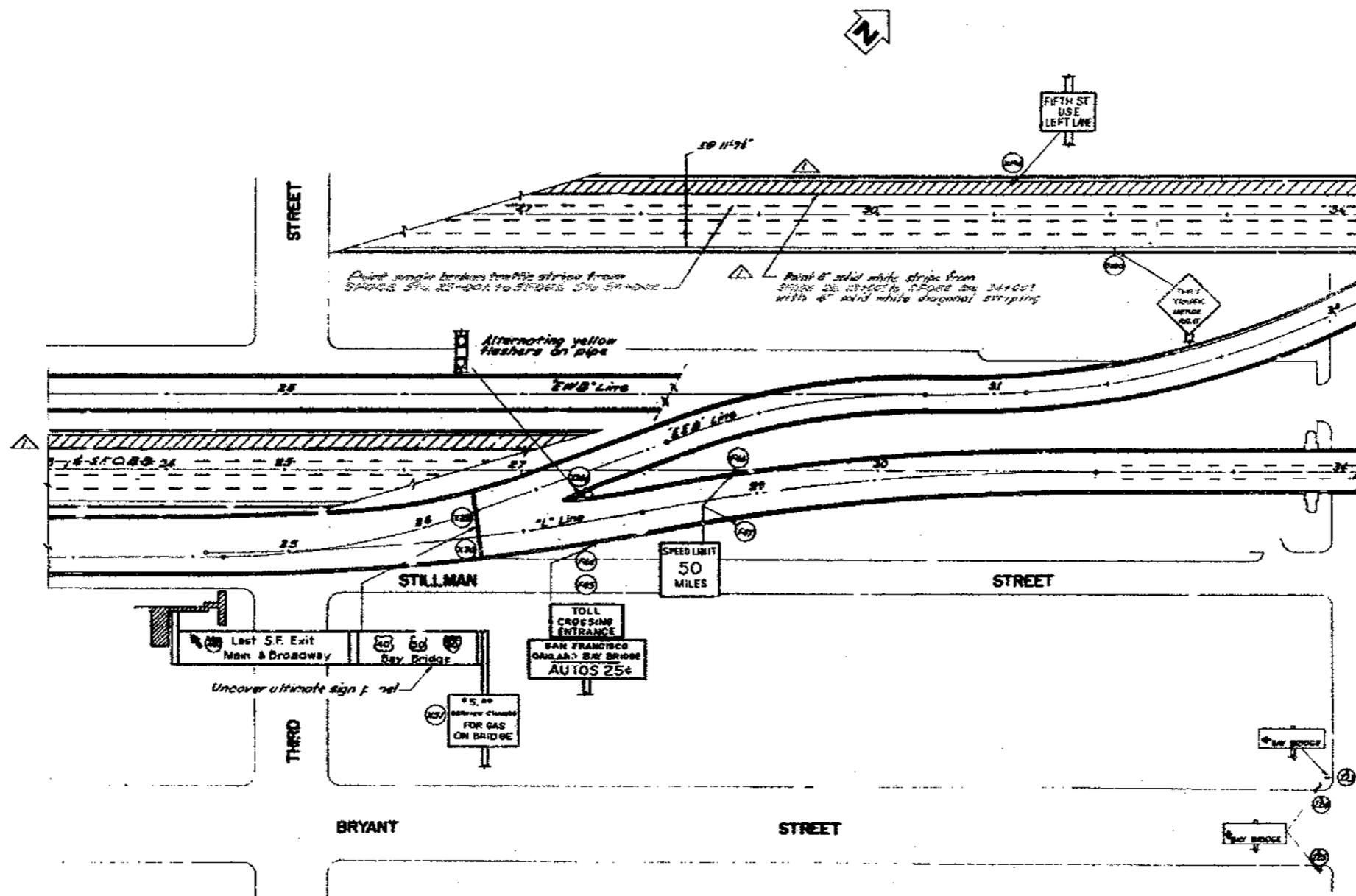
SCALE 1" = 50'

BRIDGE 33-25
 34-03

SHEET No. 7

DRAWING C-4033-7-R

MARK	DATE	DESCRIPTION	BY	CHK.
1	1/15/65	As built without revisions	W.S.	W.S.
2	1/20/65	Signing and striping changed	W.S.	W.S.



DRAWN BY: [Name] CHECKED BY: [Name] DATE: [Date]
 REVISIONS: [List]

MARK	DATE	DESCRIPTION	BY	CHK.
▲	9-1-62	As built without revisions	WFS	WHL
▲	4-15-63	Striping changed	HBC	WFS

SUPPLEMENTAL CONTRACT DRAWING

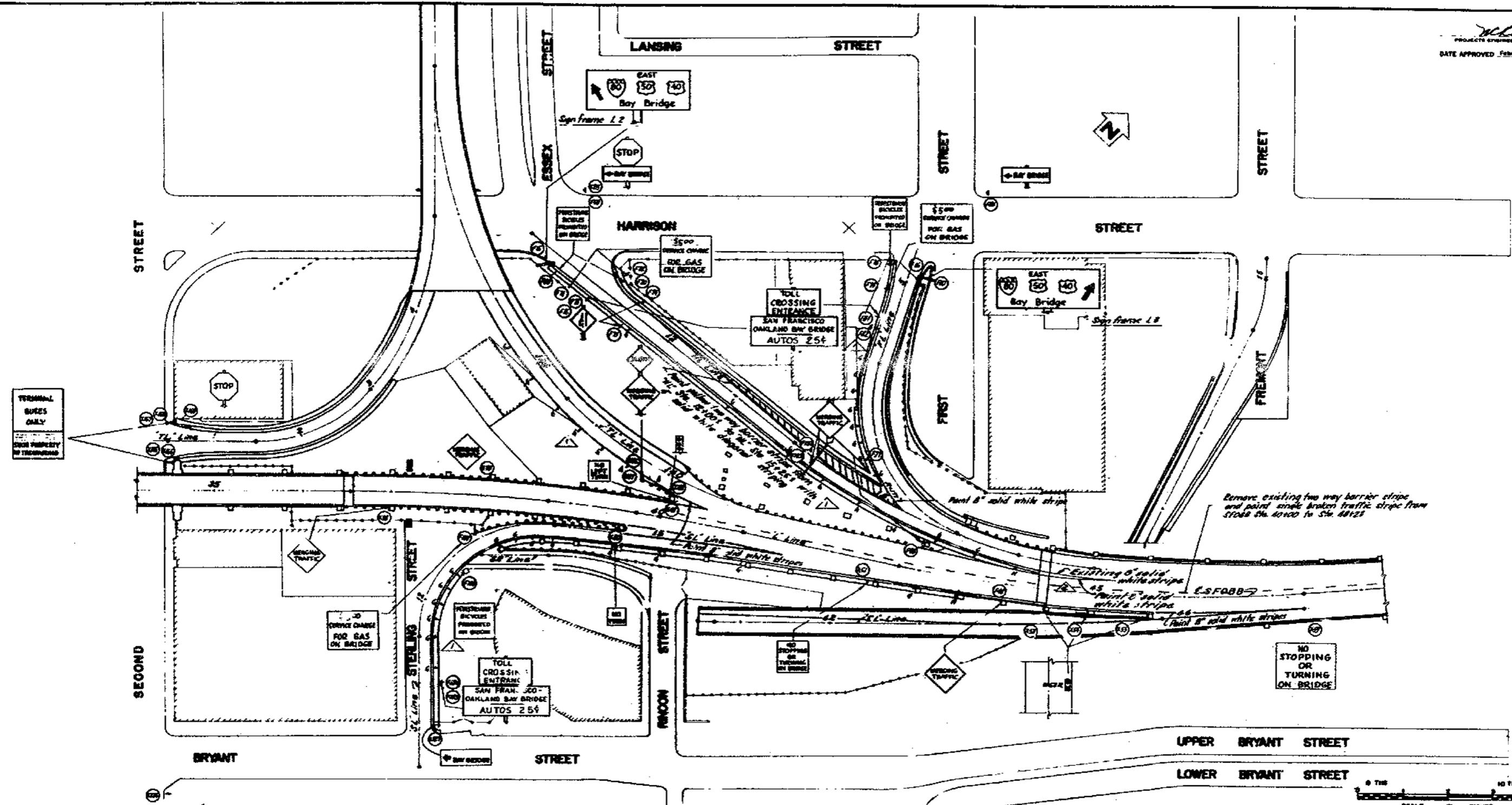
STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING**

PLAN - STA. 23+00 TO STA. 34+00

SCALE 1" = 50'

BRIDGE 34-04	SHEET NO 8	DRAWING C-4033-B R
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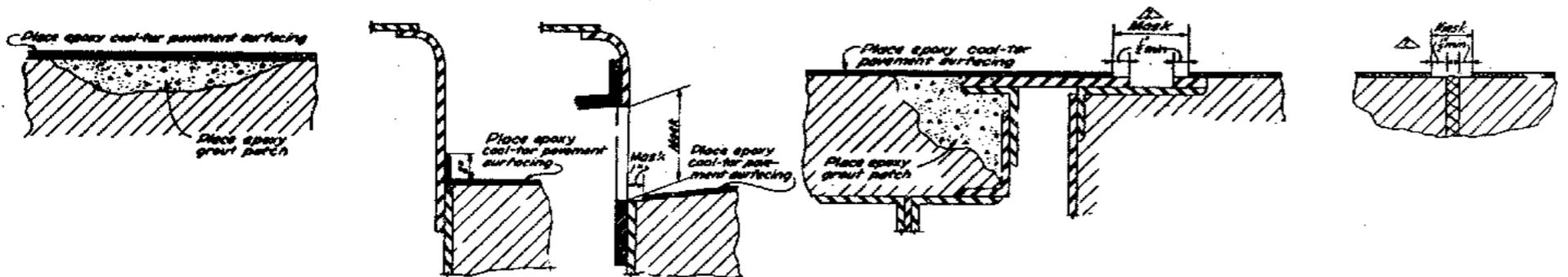
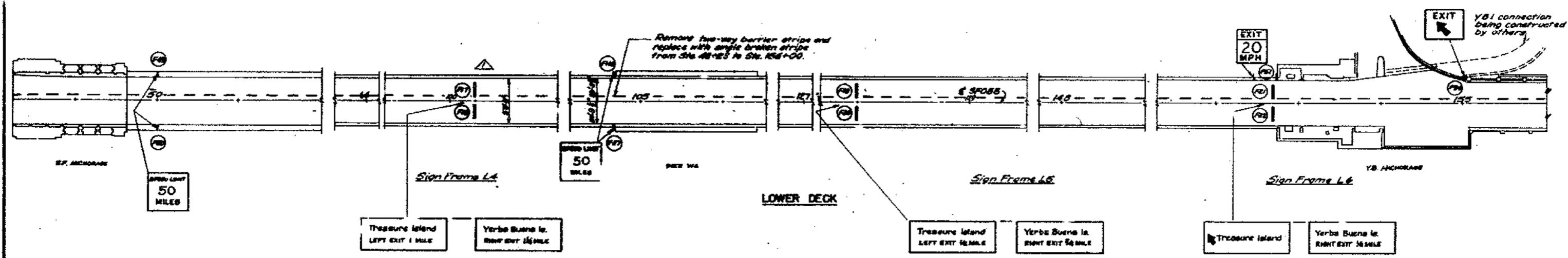
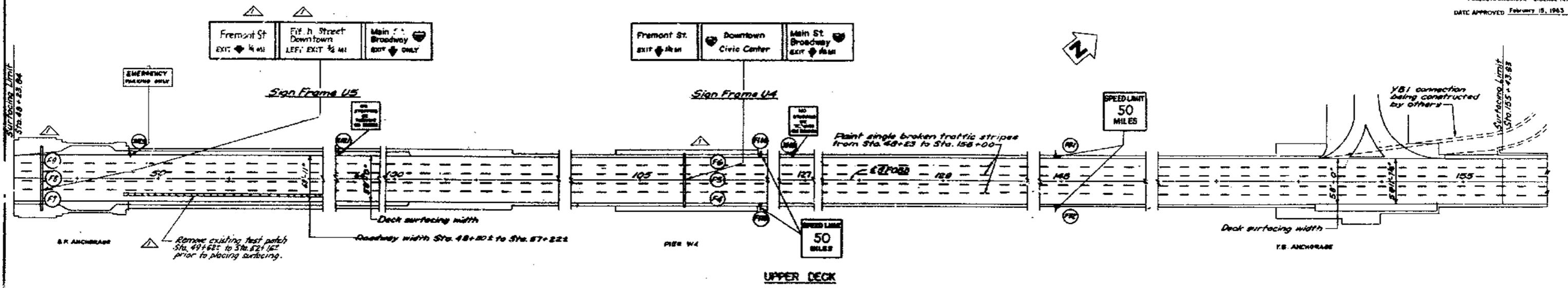
TERMINAL
 BUSES
 ONLY
 EDGE PROPERTY
 OF TERMINAL



SUPPLEMENTAL CONTRACT DRAWING

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS	
SAN FRANCISCO - OAKLAND BAY BRIDGE RECONSTRUCTION DECK SURFACING	
PLAN-LOWER DECK - STA. 34+00 TO STA. 48+23	
SCALE 1" = 50'	BRIDGE 33-25 34-03
SHEET NO. 10	DRAWING NO. 4033-10

MARK	DATE	DESCRIPTION	BY	CHK.
1		As built with revisions	ARC	MES
2		Signage changed	ARC	MES
		REVISION		



DECK PATCHING AND SURFACING DETAILS
 Scale: None



SUPPLEMENTAL CONTRACT DRAWING

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING

PLAN-STA 48+23 TO STA. 156+00

BRIDGE 33-25
 34-03
 34-04

SCALE 1" = 50'

REVISION

MARK DATE DESCRIPTION BY CHK.

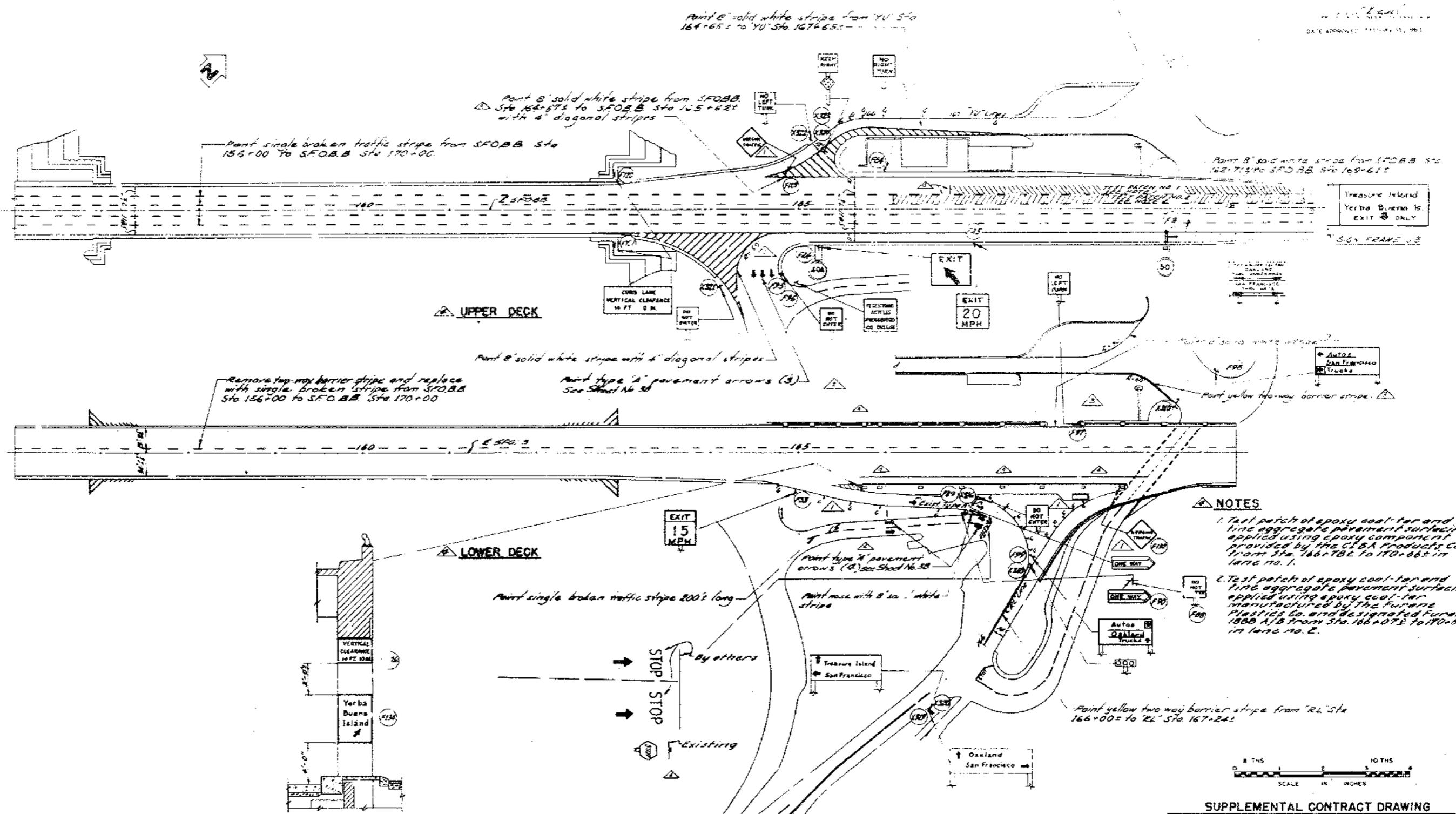
9-1-64 As built with revisions OB JMK

4-17-63 Sign message and locations changed. Test patch delineated. PRC HRS

REVISION

BRIDGE SHEET No. 11 DRAWING C-4033-11R

MARK	DATE	DESCRIPTION	BY	CHK.
△	9-1-64	As built with revisions	OB	JMK
△	4-17-63	Sign message and locations changed. Test patch delineated.	PRC	HRS



Point B solid white stripe from YU Sta 164+65.5 to YU Sta 167+65.5

Point B solid white stripe from SFOAB Sta 156+67.5 to SFOAB Sta 165+68.5 with 4 diagonal stripes

Paint single broken traffic stripe from SFOAB Sta 155+00 to SFOAB Sta 170+00

Point B solid white stripe from SFOAB Sta 162+71.5 to SFOAB Sta 169+61.5

Remove top way barrier stripe and replace with single broken stripe from SFOAB Sta 156+00 to SFOAB Sta 170+00

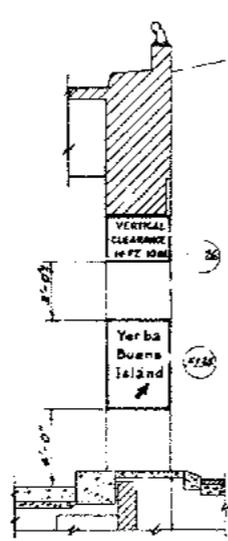
Paint B solid white stripe with 4 diagonal stripes

Paint type A pavement arrows (3) See Sheet No 38

Paint single broken traffic stripe 200' long

Paint nose with B solid white stripe

- NOTES**
1. Test patch of epoxy coal-tar and fine aggregate pavement surfacing applied using epoxy component provided by the CIBA Products Co. from Sta. 166+78.5 to 170+66.5 in lane no. 1.
 2. Test patch of epoxy coal-tar and fine aggregate pavement surfacing applied using epoxy coal-tar manufactured by the Furnace Plastics Co. and designated Furnace 1800 A/B from Sta. 166+07.5 to 170+66.5 in lane no. 2.



DETAIL A

MARK	DATE	DESCRIPTION	BY	CHK.
11/16		As built with revisions	AS/SM	
10/27/15		Del. to sign F55, F56, F57, F58, F59, Revised striping vicinity CNO & W of fire house.		
6/28/15		Deleted sign F53, Added sign F134 & Detail A		
11/16/13		Signs added and striping changed		

SUPPLEMENTAL CONTRACT DRAWING

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL ROADS

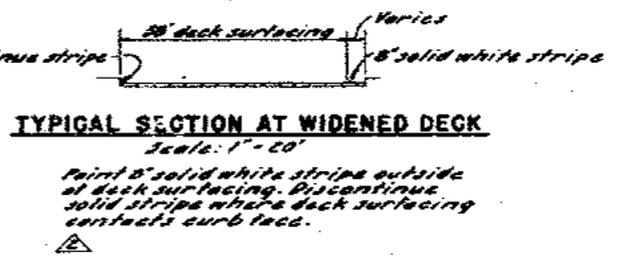
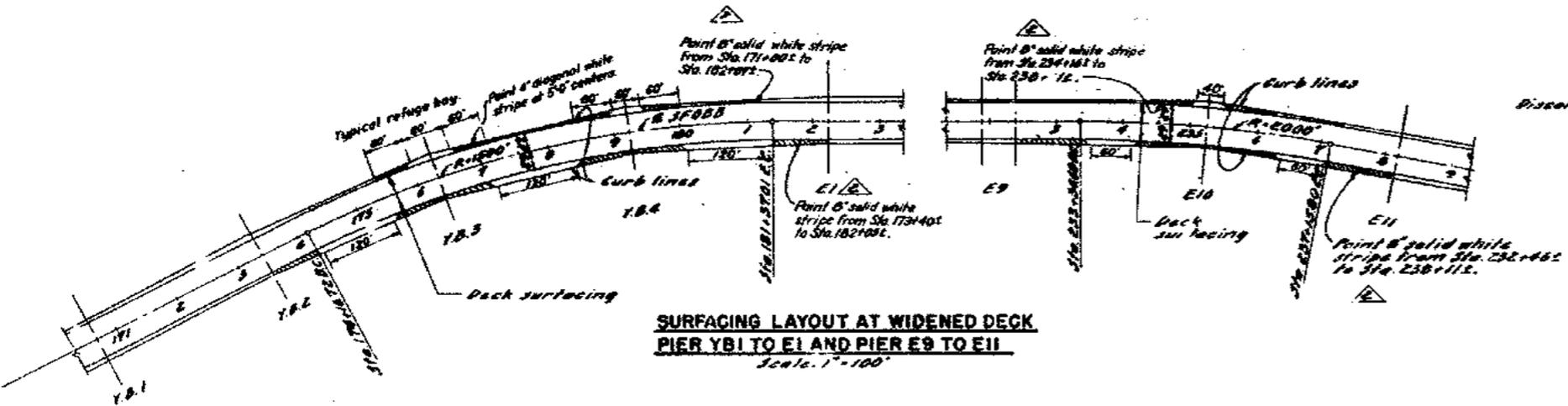
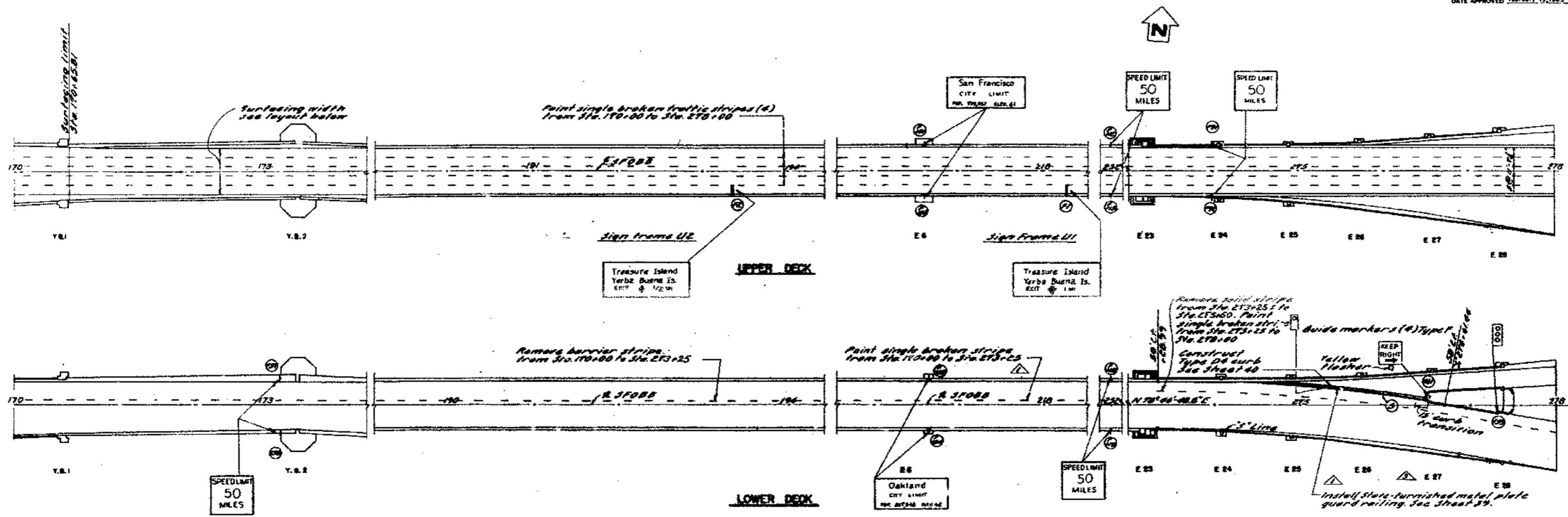
**SAN FRANCISCO - JAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

PLAN-STA. 156+00 TO STA. 170+00

SCALE 1" = 50'

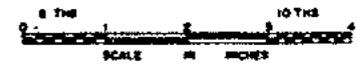
BRIDGE 34.04 SHEET NO 12 DRAWING NO. 4033.12R

DESIGN AND DETAIL PROVIDED BY...



Curve data

No.	R.	Δ	T	L
5	12000'	9° 31' 21"	171.45'	342.10'



**SURFACING LAYOUT AT WIDENED DECK
 PIER Y.B.1 TO E.I AND PIER E.9 TO E.II**
 Scale: 1" = 100'

TYPICAL SECTION AT WIDENED DECK
 Scale: 1" = 20'

SUPPLEMENTAL CONTRACT DRAWING

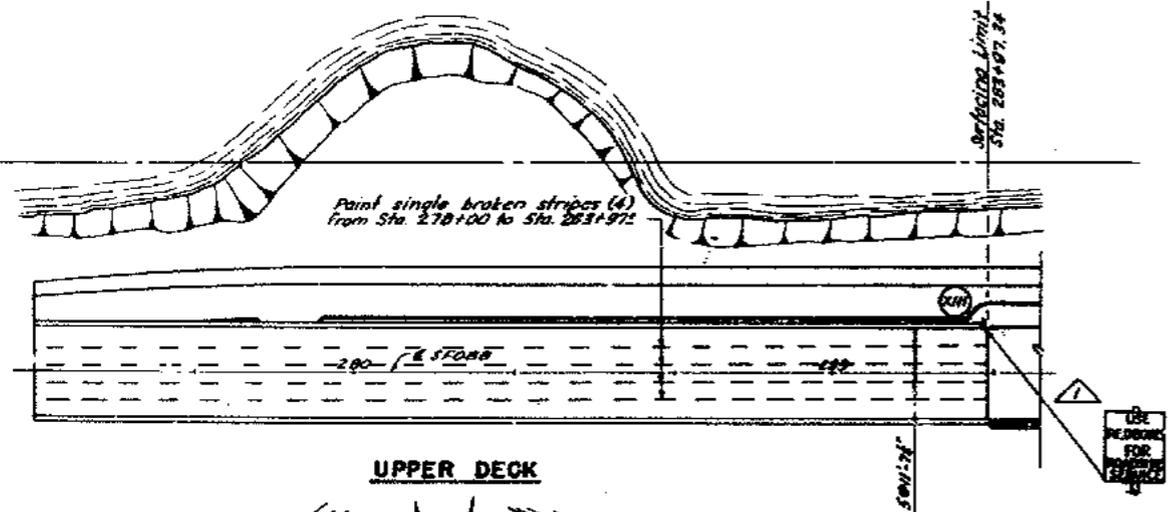
MARK	DATE	DESCRIPTION	BY	CHK.
9-1-64		As built with revisions	c/c	ZML
4-20-65		Rev. striping of surfacing layout. Added typical section.	MVC	R.M.
4-14-65		Guard railing added. Striping changed.	MVC	WKS

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSING

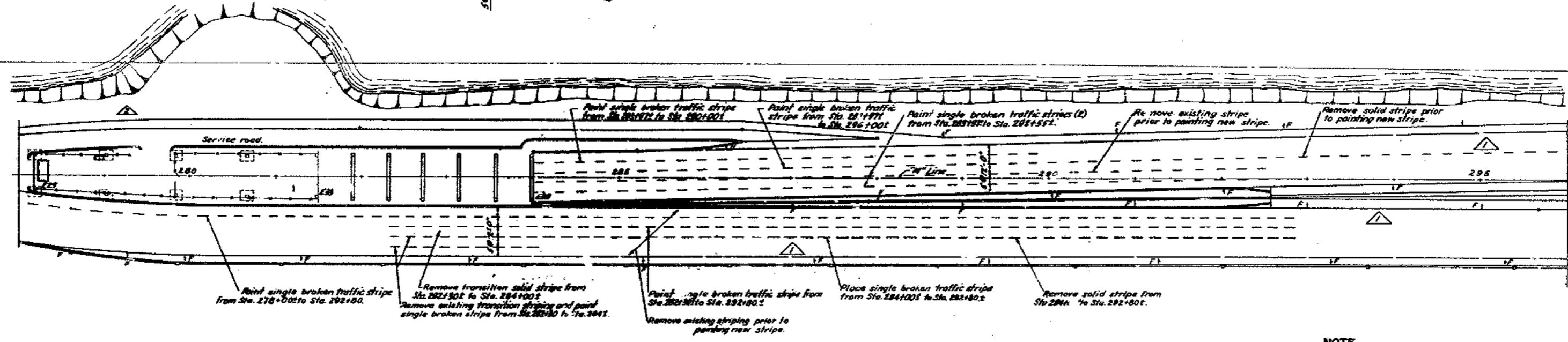
**SAN FRANCISCO - OAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING**

PLAN - STA. 170+00 TO STA. 278+00

UNLESS NOTED SCALE 1" = 50'	BRIDGE 33-25 34-34	SHEET No. 13	DRAWING C-4033-13A
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UPPER DECK



MOLE PAVEMENT

NOTE

1. For paving and other work to be performed on the mole see Sheets 32 and 33.



SUPPLEMENTAL CONTRACT DRAWING

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO - OAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING**

PLAN - STA. 278+00 TO STA. 296+00

MARK	DATE	DESCRIPTION	BY	CHK.
3-1-64		As built with revision.	etc	ZML
4-17-63		Signing changed.	WOC	HRS

SCALE 1" = 50'	BRIDGE 33-25 34-03 34-04	SHEET NO. 14	DRAWING C-4033-14
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SIGN NO.	LOCATION	CODE NO.	MESSAGE	DIMENSIONS		AREA SQ. FEET	MOUNTING DETAIL	REMARKS
				LENGTH	WIDTH			
F1	SFOBB 281+31.56	624	Treasure Island Yerba Buena Is. EXIT 1/2 MI	184"	100"	18.4	See Sheet 25, 29	Internally illuminated, see note 4. Hood, see note 4. Frame U1
F2	SFOBB 109+33.56	624	Treasure Island Yerba Buena Is. EXIT 1/2 MI	234"	100"	23.4	See Sheet 25, 29	Hood Frame U2
F3	SFOBB 469+17.89	624	Treasure Island Yerba Buena Is. EXIT 1/2 MI	284"	100"	28.4	See Sheet 25, 29	Hood Frame U3
F4	SFOBB 105+55.2	624	Fremont St. EXIT 1/4 MI	210"	100"	21.0	See Sheet 27, 30	Hood Frame U4
F5	SFOBB 105+55.2	624	Downtown Civic Center	258"	100"	25.8	See Sheet 27, 30	Hood Frame U4
F6	SFOBB 105+55.2	624	Main St. Broadway EXIT 1/4 MI	210"	100"	21.0	See Sheet 27, 30	Frame U4
F7	SFOBB 48+44.0	624	Fremont St. EXIT 1/4 MI	180"	100"	18.0	See Sheet 27, 30	Hood Frame U5
F8	SFOBB 48+44.0	624	Fifth Street Downtown LEFT EXIT 1/4 MI	180"	100"	18.0	See Sheet 27, 30	Hood Frame U5
F9	SFOBB 48+44.0	624	Main St. Broadway EXIT 1/4 MI	210"	100"	21.0	See Sheet 27, 30	Frame U5
F10	SFOBB 40+62.2	624	Civic Center	240"	100"	24.0	See Sheet 27, 30	Frame U6
F11	SFOBB 40+62.2	624	Main St. Broadway	258"	100"	25.8	See Sheet 27, 30	Frame U6
F12	SFOBB 280+99.2	624	1/4 Fremont St.	210"	100"	21.0	See Sheet 27, 30	Frame U7
F13	SFOBB 280+99.2	624	Fifth Street Downtown LEFT LANES	180"	100"	18.0	See Sheet 26, 31	Hood Frame U7
F14	"K" 6+30.1	624	EAST Bay Bridge	210"	80"	16.7	See Sheet 26, 31	Frame L1
F15	"K" 10+31.7	624	EAST Bay Bridge	210"	80"	16.7	See Sheet 26, 31	Hood Frame L2
F16	"L" 6+11.1	624	EAST Bay Bridge	210"	80"	16.7	See Sheet 26, 31	Hood Frame L3
F17	SFOBB 100+43.1 LD	624	Treasure Island LEFT EXIT 1/4 MI	210"	46"	6.7	See Sheet 28	Cover face of sign, to be uncovered by another contract. Frame L4
F18	SFOBB 100+43.1 LD	624	Yerba Buena Is. RIGHT EXIT 1/4 MI	210"	46"	6.7	See Sheet 28	Frame L4
F19	SFOBB 127+71.2 LD	624	Treasure Island LEFT EXIT 1/4 MI	210"	46"	6.7	See Sheet 28	Cover face of sign, to be uncovered by another contract. Frame L5
F20	SFOBB 127+71.2 LD	624	Yerba Buena Is. RIGHT EXIT 1/4 MI	210"	46"	6.7	See Sheet 28	Frame L5
F21	SFOBB 152+37.2 LD	624	Yerba Buena Is. RIGHT EXIT 1/4 MI	210"	46"	6.7	See Sheet 28	Cover face of sign, to be uncovered by another contract. Frame L6
F22	SFOBB 152+37.2 LD	624	Yerba Buena Is. RIGHT EXIT 1/4 MI	210"	46"	6.7	See Sheet 28	Frame L6
F23	SFOBB 157+33.2	WTR (20)	EXIT 20 MPH	48"	60"	28.8	See Sheet 28	hood-mount on existing electrical—use existing hardware.
F24	SFOBB 157+33.2	WTR (20)	EXIT 20 MPH	70"	80"	56.0	See Sheet 28	hood
F25	SFOBB 173+120.1 LD	R2R (50)	SPEED LIMIT 50 MILES	48"	60"	28.8	See Sheet 28	hood

SIGN NO.	LOCATION	CODE NO.	MESSAGE	DIMENSIONS		AREA SQ. FEET	MOUNTING DETAIL	REMARKS
				LENGTH	WIDTH			
F26	SFOBB 173+120.1 LD	R2R (50)	SPEED LIMIT 50 MILES	48"	60"	28.8	See Sheet 28	hood
F27	"K" 7+70.1	S6R	PEDESTRIANS BICYCLES PROHIBITED ON BRIDGE	32"	38"	8.9	See Sheet 28	Ground
F28	"K" 7+70.1	S6R	PEDESTRIANS BICYCLES PROHIBITED ON BRIDGE	32"	38"	8.9	See Sheet 28	Ground
F29	"K" 7+68.1	S6R	PEDESTRIANS BICYCLES PROHIBITED ON BRIDGE	32"	38"	8.9	See Sheet 28	Ground
F30	"K" 7+65.1	S6R	PEDESTRIANS BICYCLES PROHIBITED ON BRIDGE	32"	38"	8.9	See Sheet 28	Ground
F31	SFOBB 91+22.2	WTR (20)	EXIT 20 MPH	48"	60"	28.8	See Sheet 28	hood
F32	SFOBB 111+50.1	WTR (20)	EXIT 20 MPH	48"	60"	28.8	See Sheet 28	hood
F33	SFOBB 161+00.2	WTR (20)	MERGING TRAFFIC	48"	60"	28.8	See Sheet 28	hood
F34	"L" 27+52.2	S6R	TOLL CROSSING ENTRANCE	40"	26"	10.4	See Sheet 28	hood
F35	"L" 27+52.2	S6R	SAN FRANCISCO OAKLAND BAY BRIDGE TOLL	60"	26"	15.6	See Sheet 28	hood
F36	"L" 28+77.2	R2R (50)	SPEED LIMIT 50 MILES	48"	60"	28.8	See Sheet 28	hood
F37	"L" 28+77.2	R2R (50)	SPEED LIMIT 50 MILES	48"	60"	28.8	See Sheet 28	hood
F38	"L" 4+96.4	WTR (20)	MERGING TRAFFIC	48"	60"	28.8	See Sheet 28	hood
F39	SFOBB 50+100.2 LD	R2R (50)	SPEED LIMIT 50 MILES	48"	60"	28.8	See Sheet 28	hood
F40	SFOBB 50+100.2 LD	R2R (50)	SPEED LIMIT 50 MILES	48"	60"	28.8	See Sheet 28	hood
F41	SFOBB 152+37.2 LD	WTR (20)	EXIT 20 MPH	48"	60"	28.8	See Sheet 28	Cover face of sign, to be uncovered by another contract.
F42	SFOBB 152+37.2 LD	WTR (20)	EXIT 20 MPH	48"	60"	28.8	See Sheet 28	hood
F43	SFOBB 157+33.2	WTR (20)	EXIT 20 MPH	48"	60"	28.8	See Sheet 28	hood
F44	SFOBB 173+120.1 LD	R2R (50)	SPEED LIMIT 50 MILES	48"	60"	28.8	See Sheet 28	hood

- NOTES**
1. Mounting detail III-H (example) refers to a type H mounting and a type H frame.
 2. For framing details see Sheet 24.
 3. For mounting details see Sheet 25.
 4. Signs indicated to be hooded shall be covered so that the message is not exposed to traffic until the beginning of Stage II, see Sheet 5.
 5. Code numbers refer to Division of Highways Standard Signs.
 6. Signs F1 through F22 are internally illuminated. For details see Sheet 44.

SIGN NO.	LOCATION	CODE NO.	MESSAGE	DIMENSIONS		AREA SQ. FEET	MOUNTING DETAIL	REMARKS
				LENGTH	WIDTH			
F135	"UH" 13+78.2	R11R	DO NOT ENTER	36"	36"	12.9	I-J-A	Ground
F136	"UH" 13+78.2	R16R	NO RIGHT TURN	30"	36"	10.8	I-J-A	Ground
F137	"UH" 13+78.2	R11R	DO NOT ENTER	36"	36"	12.9	I-J-A	Ground
F138	"UH" 14+09.2	R10E	ONE WAY	48"	16"	7.7	I-J-A	Ground
X323	SFOBB 165+30	R7R	KEEP RIGHT	30"	30"	9.0	I-J-B	Ground
X324	SFOBB 165+30	W21R		18"	18"	3.2	I-J-B	Ground
X325	SFOBB 165+30	W21R		15"	15"	2.2	I-J-B	Ground



SUPPLEMENTAL CONTRACT DRAWING

MARK	DATE	DESCRIPTION	BY	CHK
5-1-84		As built with revisions	C.C.	R.M.
8-28-84		Added signs F135, F136, F138	M.C.	R.M.
6-28-83		Sign F52 deleted	M.C.	R.M.
4-17-83		Signs, locations and mountings changed	M.C.	M.S.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

SIGN INSTALLATION SCHEDULE 1

SCALE NONE BRIDGE 34-04 SHEET No. 15 DRAWING CC-4033-15

SIGN NO.	LOCATION	CODE NO.	MESSAGE	DIMENS. IN S.		AREA SQ. FEET	MOUNTING DETAIL	REMARKS
				LENGTH	WIDTH			
F59	SFOBB 277+33 F LD 8' RT	W80R	[Symbol]	24"	8"	1.3	Col	Use two mounting holes only.
F60	UH 15+15 34' LT	R11R	DO NOT ENTER	36"	36"	9.0	I-J-A Ground	hood
F61	UH 15+15 31' RT	R11R	DO NOT ENTER	36"	36"	9.0	I-J-A Ground	hood
F62	UH 15+15 34' LT	R10R (2P)	[Symbol]	48"	16"	5.3	I-J-A Ground	hood
F63	UH 15+15 31' RT	R10R (1P)	[Symbol]	48"	16"	5.3	I-J-A Ground	hood
F64	UH 16+28 42' LT	R16R	NO RIGHT TURN	30"	36"	7.5	I-J-A Ground	hood
F65	UH 17+50 20' LT	S63R	PEDESTRIANS BICYCLES PROHIBITED ON BRIDGE	32"	38"	8.4	I-J-A Ground	
F66	UH 10+40 15' RT	W41R	SIGNAL AHEAD	48"	48"	16.0	I-J-A Ground	
F67	UH 6+00 16' RT	W16R	SLOW	48"	48"	16.0	I-J-A Ground	
F68	HL 10+50 20' RT	S63R	PEDESTRIANS BICYCLES PROHIBITED ON BRIDGE	32"	38"	8.4	I-J-A Ground	
F70	HL 11+20 23' LT	S63R	PEDESTRIANS BICYCLES PROHIBITED ON BRIDGE	32"	38"	8.4	I-J-A Ground	
F71	HL 10+75 20' RT	S62R	\$ 5.00 SERVICE CHARGE FOR GAS ON BRIDGE	40"	42"	17.5	I-J-B Ground	hood
F72	HL 11+15 32' LT	S62R	\$ 5.00 SERVICE CHARGE FOR GAS ON BRIDGE	40"	42"	17.5	I-J-B Ground	hood
F73	HL 11+50 20' RT	W11R (1P)	[Symbol]	48"	48"	16.0	I-J-B Ground	hood
F74	HL 11+50 20' LT	W11R (1P)	[Symbol]	48"	48"	16.0	I-J-B Ground	hood
F75	HL 1+00 20' RT	S60R	TOLL CROSSING ENTRANCE	40"	26"	7.2	I-J-B Ground	hood
F76	HL 11+00 20' RT	S61R	SAN FRANCISCO OAKLAND BAY BRIDGE AUTOS 25¢	40"	26"	10.8	I-J-B Ground	hood
F77	FL 7+20 12' RT	W59R	MERGING TRAFFIC	48"	48"	16.0	I-J-B Ground	
F78	FL 4+07 24' RT	S63R	PEDESTRIANS BICYCLES PROHIBITED ON BRIDGE	32"	38"	8.4	I-J-A Ground	
F79	FL 5+15 20' RT	S62R	\$ 5.00 SERVICE CHARGE FOR GAS ON BRIDGE	40"	42"	17.5	I-J-B Ground	hood
F80	FL 4+96 18' LT	S62R	\$ 5.00 SERVICE CHARGE FOR GAS ON BRIDGE	40"	42"	17.5	I-J-B Ground	hood
F81	FL 5+50 18' RT	S61R	TOLL CROSSING ENTRANCE	40"	26"	7.2	I-J-B Ground	hood
F82	FL 5+50 18' RT	S61R	SAN FRANCISCO OAKLAND BAY BRIDGE AUTOS 25¢	40"	26"	10.8	I-J-B Ground	hood

SIGN NO.	LOCATION	CODE NO.	MESSAGE	DIMENSIONS		AREA SQ. FEET	MOUNTING DETAIL	REMARKS
				LENGTH	WIDTH			
F83	FL 9+62 55' LT	G8R	NO BAY BRIDGE	52"	12"	1.3	I-J-A Substrate	hood
F84	SFOBB 166+00 46' LT	R16R	NO RIGHT TURN	30"	36"	7.5	I-A rail	hood
F85								
F86								
F87								
F88	FL 166+02 17' RT	R16R	DO NOT ENTER	36"	36"	9.0	I-J-A Ground	hood
F89	FL 166+02 17' RT	R16R (1P)	[Symbol]	48"	16"	5.3	I-J-A Ground	
F90	FL 166+02 17' RT	R16R (1P)	[Symbol]	48"	16"	5.3	I-J-A Ground	hood
F91	SFOBB 274+00 33' LT	R22R (30)	SPEED LIMIT 50	48"	60"	20.0	III-F rail	hood
F92	SFOBB 274+00 33' LT	R22R (30)	SPEED LIMIT 50	48"	60"	20.0	III-F rail	hood
F93	FL 166+02 17' RT	W59R	MERGING TRAFFIC	48"	48"	16.0	I-J-B Ground	
F94	SFOBB 155+00 22' LD	G61E (20)(20)	EXIT	40"	36"	10.0	G Col	Cover face of sign unnumbered by other contract
F95	SFOBB 164+00 28' RT	R11R	DO NOT ENTER	36"	36"	9.0	I-J-A Ground	hood
F96	SFOBB 164+00 28' RT	S63R	PEDESTRIANS BICYCLES PROHIBITED ON BRIDGE	32"	38"	8.4	I-J-A Ground	
F97	SFOBB 168+02 34' LT	R17R	NO LEFT TURN	30"	36"	7.5	G Col	
F98	SFOBB 169+77 97' LT	S62R	[Symbol]	12"	12"	1.0	cover plate	Attach to existing sign panel
F99	FL 8+00 5' RT	J4R	[Symbol]	12"	12"	1.0	cover plate	Attach to existing sign panel
F100	SFOBB 32+00 32' RT	W78R (1P)	THRU TRAFFIC MERGE RIGHT	60"	60"	25.0	II-H Banner post	hood
F101	SFOBB 216+16 26' LT	G9R	SAN FRANCISCO CITY LIMITS	48"	30"	12.5	II-F rail	
F102	SFOBB 216+16 32' RT	G9R	SAN FRANCISCO CITY LIMITS	48"	30"	12.5	II-F rail	
F103	SF JD 216+16 32' LD	G9R	OAKLAND CITY LIMIT	60"	30"	12.5	II-D rail	
F104	SFOBB 216+16 30' RT	G9R	OAKLAND CITY LIMIT	60"	30"	12.5	II-E rail	
F105	FL 274+00 15' LT	S62R	\$ 5.00 SERVICE CHARGE FOR GAS ON BRIDGE	40"	42"	17.5	II-C Ground	
F106	FL 6+30 25' RT	S62R	\$ 5.00 SERVICE CHARGE FOR GAS ON BRIDGE	40"	42"	17.5	II-J-B Ground	
F107	FL 12+84 8' LT	S62R	\$ 5.00 SERVICE CHARGE FOR GAS ON BRIDGE	40"	42"	17.5	II-J-B Ground	

SIGN NO.	LOCATION	CODE NO.	MESSAGE	DIMENSIONS		AREA SQ. FEET	MOUNTING DETAIL	REMARKS
				LENGTH	WIDTH			
F108	FL 12+34 22' RT	S63R	PEDESTRIANS BICYCLES PROHIBITED ON BRIDGE	32"	38"	8.4	Col	
F109								
F110	SFOBB 14+23 32' LT	W46R (25)	25 MPH	30"	30"	6.3		Mount on existing sign post use existing hardware
F111	SFOBB 15+24 1' LT	W46R (25)	25 MPH	30"	30"	6.3		Mount on existing sign post use existing hardware
F112	SFOBB 232+00 32' LT	R22R (50)	SPEED LIMIT 50 MILES	48"	60"	20.0	III-F rail	hood
F113	SFOBB 232+00 32' RT	R22R (50)	SPEED LIMIT 50 MILES	48"	60"	20.0	III-F rail	hood
F114	SFOBB 108+75 32' LT	R22R (50)	SPEED LIMIT 50 MILES	48"	60"	20.0	III-F rail	hood
F115	SFOBB 108+75 32' RT	R22R (50)	SPEED LIMIT 50 MILES	48"	60"	20.0	III-F rail	hood
F116	SFOBB 104+60 32' LD	R22R (50)	SPEED LIMIT 50 MILES	48"	60"	20.0	III-D rail	hood
F117	SFOBB 114+60 32' LD	R22R (50)	SPEED LIMIT 50 MILES	48"	60"	20.0	III-E rail	hood
F118	SFOBB 232+00 32' LD	R22R (50)	SPEED LIMIT 50 MILES	48"	60"	20.0	III-D rail	hood
F119	SFOBB 232+00 32' LD	R22R (50)	SPEED LIMIT 50 MILES	48"	60"	20.0	III-E rail	hood
F120	SFOBB 162+07 41' LT	S65R	CORNER LANE VERTICAL CLEARANCE 14 FT. 0 IN.	120"	42"	35.0	II	Mount on concrete ledge at tunnel portal. Mounting detail similar to type A.
F121	SFOBB 162+07 41' RT	S65R	CORNER LANE VERTICAL CLEARANCE 14 FT. 0 IN.	120"	42"	35.0	II	Mount on concrete ledge at tunnel portal. Mounting detail similar to type A.
F122	HL 14+16 6' LT	W59R	MERGING TRAFFIC	48"	48"	16.0		Mount on existing sign bridge on vertical member.
F123	HL 14+16 6' RT	W59R	MERGING TRAFFIC	48"	48"	16.0		Mount on existing sign bridge on vertical member.
F124	FL 11+00 23' RT	S60R	TOLL CROSSING ENTRANCE	40"	26"	7.2	II-J-B Ground	
F125	FL 11+00 23' RT	R61R	SAN FRANCISCO OAKLAND BAY BRIDGE AUTOS 25¢	40"	26"	10.8	II-J-B Ground	
F126	SFOBB 165+72 42' LD	S66R	VERTICAL CLEARANCE 14 FT. 10 IN.	40"	26"	7.8	G Col	
F127	FL 9+25 12' LT	S67R	VERTICAL CLEARANCE 14 FT. 4 IN.	120"	30"	25.0	II	Mount on girder of existing structure.
F128	FL 11+00 17' RT	S68R	TOLL CROSSING ENTRANCE 500 FEET	78"	48"	22.8	II-C	
F129	SFOBB 166+07 48' LT	W59R	MERGING TRAFFIC	48"	48"	16.0	I-C	Mount on deck slab
F130	SFOBB 168+07 48' LD	W59R	MERGING TRAFFIC	36"	36"	9.0	G Col	
F131	SFOBB 38+38 37' RT	W46R (20)	20 MPH	30"	30"	6.3	I-B	hood
F132	SFOBB 38+38 37' RT	W46R (20)	20 MPH	30"	30"	6.3	I-B	hood
F133	SFOBB 40+50 42' RT	W78R (50)	THRU TRAFFIC MERGE	48"	60"	20.0	II-B Banner post	hood see note 4
F134	SFOBB 165+72 42' LD	S66R	VERTICAL CLEARANCE 14 FT. 10 IN.	40"	26"	7.8	G Col	

NOTE
See Sheet 15 for note
1-1-61 As per with reasons
1-21-63 Deleted signs F85, F86, F87 and F109
4-28-63 Added signs F133 and F134 Revised sign F130
4-11-63 Signs, locations and mountings changed

MARK	DATE	DESCRIPTION	BY	CHK.
		REVISION		

SUPPLEMENTAL CONTRACT DRAWING

STATE OF CALIFORNIA
DIVISION OF HIGHWAYS
SAN FRANCISCO OAKLAND BAY TOLL CROSSING

**SAN FRANCISCO OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

SIGN INSTALLATION - SCHEDULE 2

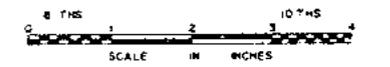
SCALE NONE BRIDGE 34-04 SHEET NO. 16 DRAWING NO. 4033-16-R

SIGN NO.	LOCATION	CODE NO.	MESSAGE	DIMENSIONS		TO REMAIN IN PLACE	REMOVE AND STORE	SIGN AREA SQ. FEET	REMARKS
				LENGTH	WIDTH				
X3	42' LI K3 5-93	G8	OAKLAND NO TRUCKS	90"	46"	*	28.8		
X5	25' RI K3 6-90	S	NOTICE TO PUBLIC SERVICE CHARGE WILL BE COLLECTED FOR GAS ON BRIDGE BY ORDER OF DIRECTOR OF PUBLIC WORKS	48"	58"	*	19.4		
X6	35' RI K3 6-94	G8	OAKLAND NO TRUCKS	90"	46"	*	28.8		
X7	24' LI K3 7-05	S	NO HITCHHIKING	30"	8"	*			
X8	48' LI K3 6-91	G8	OAKLAND NO TRUCKS	90"	46"	*	28.8		
X9	30' LI K3 7-83	R26S	NO STOPPING ANY TIME	12"	18"	*			
X10	26' RI K3 7-24	R26S	NO STOPPING ANY TIME	12"	18"	*			
	26' RI K3 7-58	G26R (30)	LANE US	18"	18"	*	2.2		
X13	23' LI K3 8-06	S	ENTERING VEHICULAR CROSSING	34"	26"	*	6.2		
X14	51' RI K3 8-28	S	BLUE STAR MEMORIAL HIGHWAY	46"	31"	*			
X15	17' RI K3 5-03	R (40)	SPEED LIMIT 40 MILES	48"	60"	*	20.0		
X16	35' LI K3 9-10	R2R (40)	SPEED LIMIT 35 MILES	48"	60"	*	20.0		
X17	13' RI K3 10-66	S	NO BICYCLES	46"	10"	*	3.2		
X18	13' RI K3 10-66	S	PEDESTRIANS PROHIBITED ON BRIDGE	36"	24"	*	6.3		
X19	3' RI SFOBB 9+82	W16R (1)	LANE	36"	36"	*	9.0		
X20	15' LI K3 7-29+40	S	NOTICE TO PUBLIC SERVICE CHARGE WILL BE COLLECTED FOR GAS ON BRIDGE BY ORDER OF DIRECTOR OF PUBLIC WORKS	48"	58"	*	19.4		
X21	32' RI SFOBB 11+70	W16R (1)	LANE	36"	36"	*	9.0		
X22	32' RI SFOBB 13+50	W59R	MERGING TRAFFIC	53"	30"	*	11.0		
X23	15' LI F3R 294+95	R15R	NO TURN	26"	30"	*			
X24	F3R 293+50	G24	Bay Bridge Only NO TRUCKS ON BRIDGE	312"	60"	*	130.0	Sign only removed by others	
X25	F3R 293+50	G24	Bay Bridge Trucks Last SF Exit	312"	60"	*	130.0	Sign only removed by others	
X26	20' RI SFOBB 19+13	G24	Bay Bridge Only NO TRUCKS ON BRIDGE	240"	60"	*	100.0	Remove sign frame	
X27	50' RI SFOBB 19+13	G24	Last SF Exit Main & Broadway	240"	60"	*			
X28	80' RI SFOBB 19+13	G24	Bay Bridge Trucks	168"	96"	*			
X29	"EEB" 26+43	G24	Last SF Exit Main & Broadway	240"	72"	*			
X30	22' RI "EB" 26+37	G24	Bay Bridge Trucks And Autos	240"	24"	*	40.0	2 panel covering utility sign panel	
X31	20' RI L 26+60	S	SERVICE CHARGE FOR GAS ON BRIDGE	44"	48"	*	14.7		
X32	20' RI L 27+60	S	ENTERING TOLL CROSSING	34"	26"	*	6.1		

SIGN NO.	LOCATION	CODE NO.	MESSAGE	DIMENSIONS		TO REMAIN IN PLACE	REMOVE AND STORE	SIGN AREA SQ. FEET	REMARKS
				LENGTH	WIDTH				
X33	20' LI L 28+33	R2R (35)	SPEED LIMIT 35 MILES	36"	45"	*	11.2		
X34	20' RI L 28+33	R2R (35)	SPEED LIMIT 35 MILES	36"	45"	*	11.2		
X35	20' RI L 29+04	S	SAN FRANCISCO-OAKLAND BAY BRIDGE AUTO TOLL 25'	48"	33"	*	11.0		
X36	20' LI L 32+00	W16R (2)	2 LANES	36"	36"	*	9.0		
X37	20' RI L 32+00	W16R (2)	2 LANES	36"	36"	*	9.0		
X38	20' RI L 36+98	W59R	MERGING TRAFFIC	48"	48"	*			
X39	21' LI L 38+09	W59R	MERGING TRAFFIC	48"	48"	*			
X40	16' LI L 36+98	W21R		18"	18"	*	2.2		
X41	20' RI L 38+60	W59R	MERGING TRAFFIC	53"	30"	*	11.0		
X42	14' LI L 30+70	W21R		18"	18"	*	2.2		
X43	9' LI L 38+02	W21R		18"	18"	*	2.2		
X44	10' LI L 39+34	W21R		18"	18"	*	2.2		
X45	13' LI L 30+81	W21R		18"	18"	*	2.2		
X46	13' LI L 39+81	W21R		18"	18"	*	2.2		
X47	13' LI L 39+81	W59R	MERGING TRAFFIC	53"	30"	*	11.0		
X48	13' LI L 39+81	W44R	TWO WAY TRAFFIC	53"	30"	*	11.0		
X49	22' LI L 40+09	R17R	NO LEFT TURN	26"	30"	*			
X50	20' RI L 39+60	R15R	NO TURN	26"	30"	*			
X51	21' RI L 42+53	S	NO STOPPING OR TURNING ON BRIDGE	41"	48"	*			
X52	24' RI L 41+01	R2R (35)	SPEED LIMIT 35 MILES	48"	60"	*	20.0		
X53	21' RI L 44+66	W63R		48"	104"	*			
X54	23' RI L 44+85	W63R		48"	104"	*			
X55	23' RI L 45+80	W63R		48"	104"	*			
X56	23' RI L 45+60	W59R	MERGING TRAFFIC	53"	30"	*			
X57	40' RI L 46+24	W59R	MERGING TRAFFIC	53"	30"	*			
X58	35' RI L 47+56	R2R (35)	SPEED LIMIT 35 MILES	24"	30"	*	5.0		
X59	35' RI L 47+56	S	NO STOPPING OR TURNING	41"	48"	*			
X60	21' RI SFOBB 152+13 LD	S	BRIDGE TURN ON LIGHTS IN TUNNEL KEEP RIGHT WAY	36"	24"	*			
X61	SFOBB 216+54 LD	S		60"	48"	*			
X63	100' RI SFOBB 280+67	R2R (35)	SPEED LIMIT 35 MILES	24"	30"	*	5.0		
X64	112' RI SFOBB 321+81	S	TRUCKS OR AUTOS			*			
X65	30' LI S1 88 279+54	S	OAKLAND	24"		*			

SIGN NO.	LOCATION	CODE NO.	MESSAGE	DIMENSIONS		TO REMAIN IN PLACE	REMOVE AND STORE	SIGN AREA SQ. FEET	REMARKS
				LENGTH	WIDTH				
X66	20' LI SFOBB 278+10 LD	R1R	STOP			*		24' x 20"	
X67	20' LI SFOBB 278+13 LD	R2R (35)	SPEED LIMIT 35 MILES	48"	60"	*	20.0		
X68	30' LI SFOBB 170+93 LD	R2R (35)	SPEED LIMIT 35 MILES	24"	30"	*	5.0		
X69	33' LI SFOBB 216+40 LD	G9R	OAKLAND CITY LIMIT	36"	24"	*	6.0		
X70	32' LI SFOBB 216+74 LD	G9R	SAN FRANCISCO CITY LIMIT POP. 405,200 ELEV. 42 POP. 37,357 ELEV. 61	36"	24"	*	6.0		
X71	32' LI SFOBB 207+02 LD	S	NO STOPPING OR TURNING ON BRIDGE	41"	48"	*	13.7		
X73	34' LI SFOBB 179+25 LD	W41R	SIGNAL AHEAD	32"	32"	*	7.1		
X74	40' RI SFOBB 170+50	R2R (35)	SPEED LIMIT 35 MILES	24"	30"	*	5.0		
X75	31' LI SFOBB 149+31 LD	S	NO STOPPING OR TURNING ON BRIDGE	41"	48"	*	13.7		
X76	31' LI SFOBB 147+02	R2R (35)	SPEED LIMIT 35 MILES	24"	30"	*	5.0		
X77	33' LI SFOBB 54+10 LD	W35R	SLOW	30"	30"	*	6.2		
X78	31' LI SFOBB 52+48 LD	W4R		30"	30"	*	6.2		
X79	31' LI SFOBB 52+48 LD	W46P (30)	SLOW TO 30	30"	24"	*	5.0		
X80	7' LI SFOBB 49+63 LD	S	TERMINAL BUSES ONLY	96"	36"	*	24.0		
X81	20' LI SFOBB 49+63 LD	S	ALL TRAFFIC	96"	30"	*	20.0		
X82	12' LI L 44+98	S	TERMINAL BUSES ONLY	96"	36"	*	24.0		
X83	30' LI L 44+98	S	ALL TRAFFIC	96"	30"	*	20.0		
X84	17' LI HL 17+06	S	PEDESTRIANS PROHIBITED ON BRIDGE	36"	24"	*	6.3		
X85	17' LI HL 17+06	S	NO BICYCLES	46"	10"	*	3.2		
X86	11' LI HL 166	W4R		24"	24"	*	4.0		
X87	18' LI HL 16+66	W46R (0)	SLOW TO 20	24"	24"	*	5.0		
X88	21' LI L 42+61	W4R		24"	24"	*	4.0		
X89	31' LI L 42+61	W46R (20)	SLOW TO 20	30"	24"	*	5.0		
X90	5' LI L 42+10	S	DO NOT ENTER TURN RIGHT	96"	36"	*	24.0		
X91	23' LI L 41+15	R11R	DO NOT ENTER	36"	36"	*	9.0		
X92	30' RI SFOBB 23+23	R2R (40)	SPEED LIMIT 40 MILES	48"	60"	*	20.0		

NOTE
1. Signs indicated to be removed and stored, shall not be removed until the beginning of construction Stage II d. See Sheet 5.
2. Refer to existing signing drawings, Sheets 7A thru 10A for location of existing signs prior to removal.



SUPPLEMENTAL CONTRACT DRAWING

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL HIGHWAYS

**SAN FRANCISCO - OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

SIGN REMOVAL SCHEDULE I

DATE	DESCRIPTION	BY	CHK
9-1-84	As built with revisions	N.E.	NRS
4-7-83	Signing changed	NRC	NRS

SCALE NONE BRIDGE 34-84 SHEET No. 17 DRAWING CAD33-17

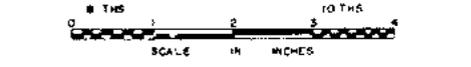
APPROVAL RECOMMENDED BY: [Signature] DATE: [Date]

SIGN NO.	LOCATION	CODE NO.	MESSAGE	DIMENSIONS		TO REMAIN IN PLACE	REMARKS
				LENGTH	WIDTH		
X101	30' RI SF0BB 30+26 U.D.	R45R	2 LINES	44"	46"	* 40	
X102	30' RI SF0BB 31+22 U.D.	R45R	SLOW	40"	40"	* 52	
X103	30' RI SF0BB 32+23 U.D.	R45R	EMERGENCY PARKING ONLY	48"	60"	* 200	
X104	30' RI SF0BB 33+24 U.D.	R45R	NO STOPPING OR TURNING ON BRIDGE	41"	48"	* 37	
X105	30' RI SF0BB 34+25 U.D.	R45R	TRAFFIC USE RIGHT LANE	48"	60"	* 200	
X106	30' RI SF0BB 35+26 U.D.	R45R	NO STOPPING OR TURNING ON BRIDGE	41"	48"	* 37	
X107	30' RI SF0BB 36+27 U.D.	R45R	TRAFFIC USE RIGHT LANE	48"	60"	* 200	
X108	30' RI SF0BB 37+28 U.D.	R45R	NO STOPPING OR TURNING ON BRIDGE	41"	48"	* 37	
X109	30' RI SF0BB 38+29 U.D.	R45R	TRAFFIC USE RIGHT LANE	48"	60"	* 200	
X110	30' RI SF0BB 39+30 U.D.	R45R	NO STOPPING OR TURNING ON BRIDGE	41"	48"	* 37	
X111	30' RI SF0BB 40+31 U.D.	R45R	TRAFFIC USE RIGHT LANE	48"	60"	* 200	
X112	30' RI SF0BB 41+32 U.D.	R45R	NO STOPPING OR TURNING ON BRIDGE	41"	48"	* 37	
X113	30' RI SF0BB 42+33 U.D.	R45R	TRAFFIC USE RIGHT LANE	48"	60"	* 200	
X114	30' RI SF0BB 43+34 U.D.	R45R	NO STOPPING OR TURNING ON BRIDGE	41"	48"	* 37	
X115	30' RI SF0BB 44+35 U.D.	R45R	TRAFFIC USE RIGHT LANE	48"	60"	* 200	
X116	30' RI SF0BB 45+36 U.D.	R45R	NO STOPPING OR TURNING ON BRIDGE	41"	48"	* 37	
X117	30' RI SF0BB 46+37 U.D.	R45R	TRAFFIC USE RIGHT LANE	48"	60"	* 200	
X118	30' RI SF0BB 47+38 U.D.	R45R	NO STOPPING OR TURNING ON BRIDGE	41"	48"	* 37	
X119	30' RI SF0BB 48+39 U.D.	R45R	TRAFFIC USE RIGHT LANE	48"	60"	* 200	
X120	30' RI SF0BB 49+40 U.D.	R45R	NO STOPPING OR TURNING ON BRIDGE	41"	48"	* 37	

SIGN NO.	LOCATION	CODE NO.	MESSAGE	DIMENSIONS		TO REMAIN IN PLACE	REMARKS
				LENGTH	WIDTH		
X121	32' LI SF0BB 53+55 U.D.	S	NO STOPPING OR TURNING ON BRIDGE	41"	48"	* 40	
X122	34' LI SF0BB 50+30 U.D.	R2R (40)	SPEED LIMIT 40	48"	60"	* 200	
X123	37' LI SF0BB 49+65 U.D.	R45	EMERGENCY PARK ONLY	24"	15"	* 25	
X124	35' LI SF0BB 46+50 U.D.	G27R (40)	INTERSTATE 400	36"	36"	* 90	
X125	35' LI SF0BB 45+50 U.D.	G44R	EMERGENCY PARKING ONLY	24"	15"	* 25	
X126	35' LI SF0BB 43+32 U.D.	R45	EMERGENCY PARKING ONLY	24"	15"	* 25	
X127	40' LI SF0BB 40+15 U.D.	G24	Remont St Broadway	216"	60"	* 900	Remove sign frame and support
X128	40' LI SF0BB 40+59 U.D.	G24	Civic Center U.S. 101	216"	60"	* 900	Remove sign frame and support
X129	33' LI SF0BB 40+11 U.D.	G27R (80)	30	36"	36"	* 90	
X130	33' LI SF0BB 40+11 U.D.	G26R (50)	30	24"	24"	* 60	
X131	33' LI SF0BB 40+11 U.D.	G26R (40)	30	24"	24"	* 60	
X132	32' RI SF0BB 28+24 U.D.	S	DO NOT ENTER	36"	34"	* 200	
X133	33' LI SF0BB 36+98 U.D.	S	FIFTH ST USE LEFT LANE	36"	34"	* 200	
X134	30' LI SF0BB 31+00 U.D.	S	FIFTH ST USE LEFT LANE	42"	34"	* 200	
X135	33' LI SF0BB 22+69	G24	Civic Center U.S. 101	240"	96"	* 900	
X136	37' LI SF0BB 16+66	G24	Civic Center U.S. 101	160"	48"	* 200	
X137	37' LI SF0BB 16+66	G24	Fifth St Downtown	168"	48"	* 200	
X138	78' LI SF0BB 17+54	R44	PEDESTRIANS PROHIBITED	28"	35"	* 200	
X139	41' LI SF0BB 16+59	R44	PEDESTRIANS PROHIBITED	28"	35"	* 200	
X140	1' RI SF0BB 16+42	S	KEEP TO RIGHT	45"	45"	* 200	
X141	32' LI SF0BB 14+23	WAR	40	48"	48"	* 200	
X142	32' LI SF0BB 14+23	R2R (25)	SLOW TO 25	30"	24"	* 50	
X143	1' LI SF0BB 15+24	WAR	40	48"	48"	* 200	
X144	1' LI SF0BB 15+24	WAR (25)	SLOW TO 25	30"	24"	* 50	
X145	32' LI SF0BB 11+73	WAR	SIGNAL AHEAD	32"	32"	* 200	
X146	1' RI SF0BB 9+66	R7R	KEEP RIGHT	60"	44"	* 200	
X147	30' LI "Ka" 7+65	S	PEDESTRIANS PROHIBITED ON BRIDGE	33"	29"	* 6.6	
X148	35' RI "Ka" 7+65	S	PEDESTRIANS PROHIBITED ON BRIDGE	30"	24"	* 6.3	
X149	35' RI "Ka" 7+65	S	NO BICYCLES	46"	10"	* 6.3	
X150	40' RI "Ka" 6+90	R11R	DO NOT ENTER	64"	46"	* 200	
X151	35' RI "Ka" 6+90	R11R	DO NOT ENTER	64"	46"	* 200	
X152	30' LI "Ka" 6+90	R11R	DO NOT ENTER	64"	46"	* 200	
X153	358' LI SF0BB 6+87	GB	NOTICE TO PUBLIC \$5.00 SERVICE CHARGE WILL BE COLLECTED FOR GAS ON BRIDGE BY ORDER DIRECTOR OF PUBLIC WORKS	78"	24"	* 200	
X154	19.5' LI "UH" 13+49	S	ENTERING VEHICULAR CROSSING	48"	58"	* 193	
X155	12.5' LI "UH" 13+49	S	ENTERING VEHICULAR CROSSING	34"	26"	* 6.1	

SIGN NO.	LOCATION	CODE NO.	MESSAGE	DIMENSIONS		TO REMAIN IN PLACE	REMARKS
				LENGTH	WIDTH		
X155	12.5' LI "UH" 13+49	S	ENTERING VEHICULAR CROSSING	34"	26"	* 6.1	
X157	10.7' LI "UH" 12+39	S	ENTERING VEHICULAR CROSSING	44"	46"	* 140	
X158	13' LI "UH" 10+44	S	PEDESTRIANS PROHIBITED ON BRIDGE	38"	24"	* 16.1	
X159	13' LI "UH" 10+44	S	NO BICYCLES	46"	10"	* 3.2	
X160	15' LI "UH" 10+42	S	KEEP OUT MAINTENANCE WALK	20"	5"	* 6.2	
X161	15' LI "UH" 4+57	W35R	SLOW	30"	30"	* 6.2	
X162	13' RI "UH" 2+30	W59R	MERGING TRAFFIC	53"	30"	* 11.0	
X163	20' LI "UH" 1+26	S	JUNCTION	48"	24"	* 8.0	
X164	13' RI "UH" 0+88	S	KEEP RIGHT	54"	24"	* 9.0	
X165	26' RI "TL" 0+53	S	TERMINAL BUSES ONLY	28"	28"	* 200	
X166	26' RI "TL" 0+53	S	STATE PROPERTY NO TRESPASSING	28"	14"	* 200	
X167	23' LI "TL" 0+77	S	TERMINAL BUSES ONLY	28"	28"	* 200	
X168	23' LI "TL" 0+57	S	STATE PROPERTY NO TRESPASSING	28"	14"	* 200	
X169	23' LI "TL" 0+57	R1R	STOP			* 24" Octagon	
X170	18' LI "TL" 1+28	R26	NO PARKING ANY TIME	12"	18"	* 200	
X171	18' RI "TL" 1+25	R26	NO PARKING ANY TIME	12"	18"	* 200	
X172	23' LI "TL" 2+40	R26	NO PARKING ANY TIME	12"	18"	* 200	
X173	16' RI "TL" 3+10	R26	NO PARKING ANY TIME	12"	18"	* 200	
X174	21' LI "TL" 3+75	R26	NO PARKING ANY TIME	12"	18"	* 200	
X175	15' LI "TL" 4+75	W21R	TERMINAL BUSES ONLY	18"	18"	* 2.2	
X176	15' RI "TL" 4+75	S	TERMINAL BUSES ONLY	36"	28"	* 7.0	
X177	15' RI "TL" 4+75	W21R	TERMINAL BUSES ONLY	18"	18"	* 2.2	
X178	15' RI "TL" 4+90	R1R	STOP			* 3.3 24" Octagon	
X179	28' RI "TL" 5+00	S	KEEP TO RIGHT	17"	17"	* 2.1	
X180	20' LI "TL" 5+50	S	PEDESTRIANS PROHIBITED	28"	16"	* 200	
X181	20' RI "TL" 5+50	S	PEDESTRIANS PROHIBITED	28"	16"	* 200	
X183	5' RI "TL" 138+15	W59R	MERGING TRAFFIC	5"	70"	* 11.0	

NOTE
 1. See Sheet 17 for notes
 2. Refer to Existing Signing drawings, Sheets 7A thru 14A for location of existing signs prior to removal.



SUPPLEMENTAL CONTRACT DRAWING

SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION DECK SURFACING

SIGN REMOVAL SCHEDULE 2

MARK	DATE	DESCRIPTION	BY	CHK
1	12/15/63	Signing changed	WOC	WFS

SIGN NO.	LOCATION	CODE NO.	MESSAGE	DIMENSIONS		TO REMAIN IN PLACE	REMOVE AND STORE	SIGN AREA SQ. FEET	REMARKS
				LENGTH	WIDTH				
X184	5' RI "TL" 138+15	S	BUSES ONLY	53"	30"	*	#	11.0	
X185	8' LI "TL" 138+15	S	SECOND STREET	36"	48"	*	#	12.0	
X186	20' RI "TL" 139+76	W35R	SLOW	30"	30"	*			
X187	20' RI "TL" 139+76	W39R	MERGING TRAFFIC	48"	48"	*			
X188	22' RI "TL" 140+12	W60R	ROAD CLOSED	24"	8"	*			
X189	20' RI "HL" 10+30	BR	ROAD CLOSED	30"	30"	*	#	6.2	
X190	20' RI "HL" 10+20	W57R	ROAD CLOSED	30"	15"	*	#	3.1	
X191	20' RI "HL" 10+20	W21R	ROAD CLOSED	18"	18"	*	#	2.3	
X192	20' RI "HL" 10+20	W21R	ROAD CLOSED	18"	18"	*	#	2.3	
X193	17' RI "HL" 10+43	S	BAY BRIDGE TRUCK ENTRANCE CLOSED USE STEELING ST.	48"	42"	*	#	14.0	
X194	17' RI "HL" 10+43	R11R	DO NOT ENTER	36"	36"	*	#	9.0	
X195	8' LI "HL" 11+05	R11R	DO NOT ENTER	36"	36"	*	#	9.0	
X196	34' LI "HL" 11+07	R12R (L)	ONE WAY	40"	12"	*	#	3.3	
X197	31' RI "HL" 10+56	R12R (R)	ONE WAY	40"	12"	*	#	3.3	
X198	21' RI "HL" 11+33	R2R (ES)	SPEED LIMIT 25 MILES	24"	30"	*	#	4.0	
X199	23' LI "FL" 7+49	W35R	SLOW	30"	30"	*	#	6.3	
X200	23' LI "FL" 7+49	W41R	SIGNAL AHEAD	32"	32"	*	#	7.1	
X201	23' LI "FL" 7+49	W35R	SLOW	30"	30"	*	#	6.3	
X202	23' LI "FL" 7+00	W41R	SIGNAL AHEAD	32"	32"	*	#	7.1	
X203	18' LI "FL" 4+83	R12R (L)	ONE WAY	40"	12"	*	#	3.3	
X204	19' LI "FL" 4+78	R11R	DO NOT ENTER	36"	36"	*	#	9.0	
X205	26' RI "FL" 4+84	R11R	DO NOT ENTER	36"	36"	*	#	9.0	
X206	36' LI "UM" 15+14	869	OAKLAND NO TRUCKS	72"	43"	*	#	21.5	
X207	36' LI "UM" 15+14	86R	OAKLAND NO TRUCKS	72"	43"	*	#	21.5	
X208	30' RI "UM" 15+08	S	NOTICE TO PUBLIC \$5.00 SERVICE CHARGE WILL BE COLLECTED FOR GAS ON BRIDGE BY ORDER DIRECTOR OF PUBLIC WORKS	48"	34"	*	#	12.3	
X209	36' LI "UM" 15+14	S	TRUCKS BAY BRIDGE	36"	16"	*	#	4.0	
X210	70' LI "FL" 4+39	S	AUTOS BAY BRIDGE	42"	18"	*	#	5.3	
X211	70' LI "FL" 4+39	S	TRUCKS BAY BRIDGE	42"	18"	*	#	5.3	
X212	31' RI "FL" 4+76	R12R (R)	ONE WAY	40"	12"	*	#	3.3	
X213	31' RI "FL" 4+76	R16R	NO RIGHT TURN	30"	30"	*	#	6.3	
X214	33' LI "HL" 11+02	S	AUTOS BAY BRIDGE	42"	18"	*	#	5.6	
X216	80' LI "HL" 10+15	R17R	NO LEFT TURN	26"	30"	*	#	5.4	
X217	80' LI "HL" 10+15	S	TRUCKS BAY BRIDGE	42"	18"	*	#	5.3	
X218	53' RI "HL" 10+00	R1R	STOP			*			1" Octagon
X219	33' RI "HL" 10+00	R16R	NO RIGHT TURN	30"	30"	*	#	6.3	

SIGN NO.	LOCATION	CODE NO.	MESSAGE	DIMENSIONS		TO REMAIN IN PLACE	REMOVE AND STORE	SIGN AREA SQ. FEET	REMARKS
				LENGTH	WIDTH				
X222	30' RI "TL" 0+50	S	KEEP CLEAR BETWEEN PAINTED LINES	40"	30"	*			
X223	278' RI "L" 33+76	S	BAY BRIDGE	42"	18"	*			
X224	283' RI "L" 33+70	S	BAY BRIDGE	42"	21"	*			
X225	357' RI "L" 33+70	S	BAY BRIDGE	42"	21"	*			
X226	360' RI "L" 34+50	S	BAY BRIDGE	42"	18"	*			
X227	22' RI "SL" 10+49	S	BAY BRIDGE	42"	18"	*			
X228	22' RI "SL" 12+54	S	PEDESTRIANS PROHIBITED ON BRIDGE	38"	24"	*	#	6.3	
X229	22' RI "SL" 12+54	S	NO BICYCLES	46"	10"	*	#	3.2	
X230	8' LI "SL" 12+94	S	NOTICE TO PUBLIC \$5.00 SERVICE CHARGE WILL BE COLLECTED FOR GAS ON BRIDGE BY ORDER DIRECTOR OF PUBLIC WORKS	48"	34"	*	#	12.3	
X231	8' LI "SL" 12+94	S	ENTERING VEHICULAR CORRIDOR	34"	26"	*			
X232	8' LI "SL" 12+94	S	ENTERING VEHICULAR CORRIDOR	34"	26"	*			
X233	1' RI "F3R" 264+87	G24	BAY BRIDGE Main Broadway	216"	60"	*			
X234	20' RI "F3R" 264+87	G24	Beyond Street Fourth Street	288"	60"	*			
X235	18' LI "F3R" 268+24	S	VEHICULAR CORRIDOR	34"	26"	*			
X236	13' RI "K" 83+50	W72R (33)	VEHICULAR CORRIDOR	48"	60"	*			
X237	18' LI "K" 90+12	G24	BAY BRIDGE Main Broadway	240"	60"	*			
X238	18' LI "K" 90+12	G24	Beyond Street Fourth Street	240"	60"	*			
X239	80' LI "K" 85+47	S	TRUCKS AND BUSES BAY BRIDGE	84"	26"	*	#	12.2	
X240	SFOBB 18+13	G24	AUTOS ALLOWED	65"	10"	*	#	4.5	
X241	18' RI "EEB" 27+38		(Two Flashers on poles)			*			
X242	15' RI "B" 34+00	W18R (1)	LANE	36"	36"	*			
X243	15' LI "BR" 34+00	W18R (1)	LANE	36"	36"	*			
X244	27' LI "L" 43+05		(Two Flashers)			*			
X245	SFOBB 38+00		(Three Flashers on pole)			*			Remove gate
X246	7' LI "UF" 4+83	G24	Fremont St	144"	50"	*			
X247	7' RI "UF" 4+83	G24	Drowsy Mission St	168"	50"	*			
X248	125' RI SFOBB 239+17	R2R (40)	SPEED LIMIT 40 MILES	36"	45"	*			
X249	25' RI SFOBB 239+57	R2R (40)	SPEED LIMIT 40 MILES	36"	45"	*			
X250	60' LI SFOBB 282+20	S	SIDE ROAD	30"	30"	*			
X251	35' LI S. OBB 281+54	S	SIDE ROAD	30"	30"	*			
X252	32' RI SFOBB 16+00 U.D.	S	CALL SERVICE TOW CALL CAR	14"	18"	*			
X253	32' LI SFOBB 16+49 U.D.								
X254	30' RI SFOBB 29166 U.D.								
X255	30' LI SFOBB 29165 U.D.								
X256	23' RI SFOBB 38+33 U.D.								
X257	30' LI SFOBB 38+37 U.D.								
X258	31' RI SFOBB 49+55 U.D.								
X259	1' LI SFOBB 9+55 U.D.								
X260	31' RI SFOBB 58+35 U.D.								

SIGN NO.	LOCATION	CODE NO.	MESSAGE	DIMENSIONS		TO REMAIN IN PLACE	REMOVE AND STORE	SIGN AREA SQ. FEET	REMARKS
				LENGTH	WIDTH				
X261	31' LI SFOBB 58+35 U.D.	S	CALL SERVICE TOW CALL CAR	14"	18"	*			
X262	31' LI SFOBB 89+97 U.D.								
X263	31' LI SFOBB 65+97 U.D.								
X264	31' RI SFOBB 81+55 U.D.								
X265	31' LI SFOBB 81+55 U.D.								
X266	31' RI SFOBB 93+07 U.D.								
X267	31' LI SFOBB 93+07 U.D.								
X268	31' RI SFOBB 106+25 U.D.								
X269	31' LI SFOBB 106+25 U.D.								
X270	31' RI SFOBB 117+97 U.D.								
X271	31' LI SFOBB 117+97 U.D.								
X272	31' RI SFOBB 128+52 U.D.								
X273	31' LI SFOBB 128+52 U.D.								
X274	31' RI SFOBB 141+07 U.D.								
X275	31' LI SFOBB 141+07 U.D.								
X276	40' RI SFOBB 153+93 U.D.								
X277	31' LI SFOBB 153+19 U.D.								
X278	31' RI SFOBB 182+20 U.D.								
X279	31' LI SFOBB 182+20 U.D.								
X280	31' RI SFOBB 201+30 U.D.								
X281	31' LI SFOBB 201+30 U.D.								
X282	31' RI SFOBB 219+16 U.D.								
X283	31' LI SFOBB 219+16 U.D.								
X284	31' RI SFOBB 234+51 U.D.								
X285	31' LI SFOBB 234+51 U.D.								
X286	31' RI SFOBB 252+36 U.D.								
X287	31' LI SFOBB 252+36 U.D.								
X288	31' RI SFOBB 273+20 U.D.								
X289	31' LI SFOBB 273+20 U.D.								
X290	31' RI SFOBB 49+14 U.D.								
X291	31' LI SFOBB 49+02 U.D.								
X292	31' LI SFOBB 58+35 U.D.								
X293	31' LI SFOBB 69+97 U.D.								
X294	31' LI SFOBB 81+55 U.D.								

NOTE
1. See Sheet 17 for notes.
2. Refer to Existing Signage drawings, Sheets 7A thru 14d for location of existing signs prior to removal.



SUPPLEMENTAL CONTRACT DRAWING

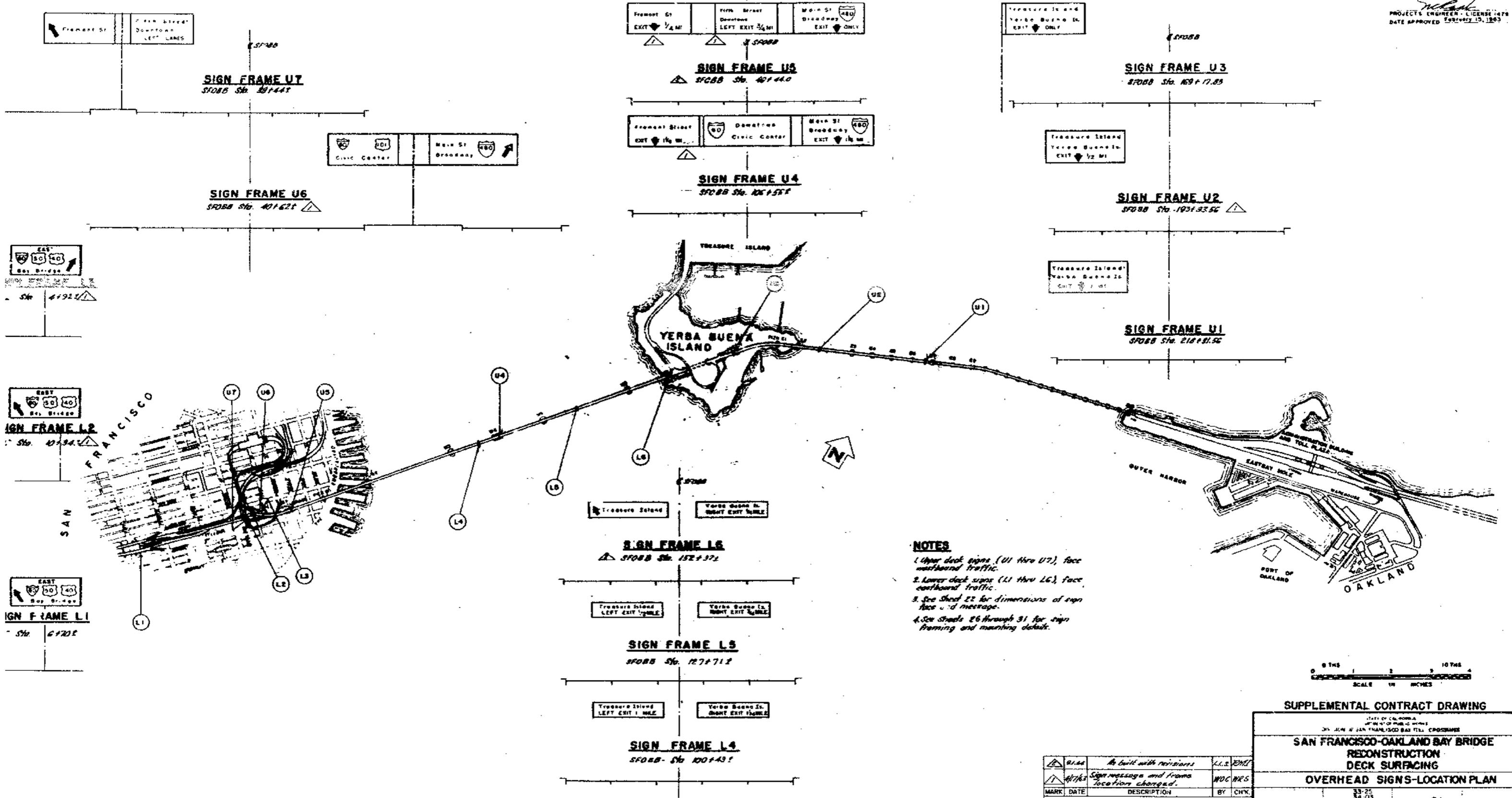
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

SIGN REMOVAL SCHEDULE 3

DATE	DESCRIPTION	BY	CHK.
4-7-63	Signing changed	MCC	MES

SCALE: NONE BRIDGE: 33-25-04 SHEET No. 19 DRAWING D-0033-19R



- NOTES**
1. Upper deck signs (U1 thru U7), face westbound traffic.
 2. Lower deck signs (L1 thru L6), face eastbound traffic.
 3. See Sheet 22 for dimensions of sign face and message.
 4. See Sheets 26 through 31 for sign framing and mounting details.



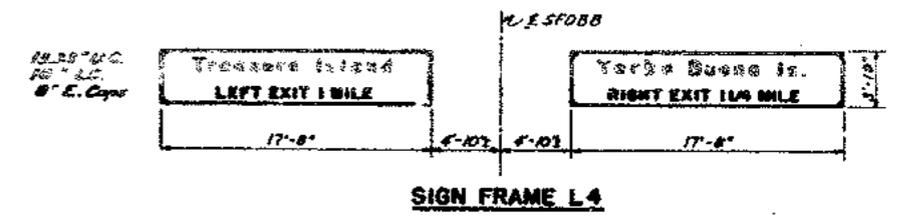
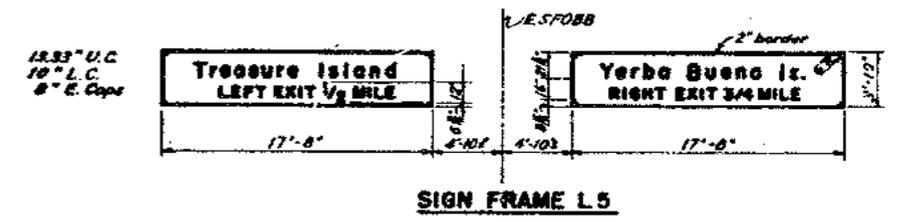
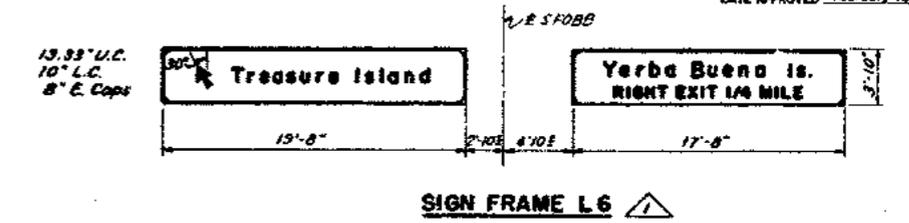
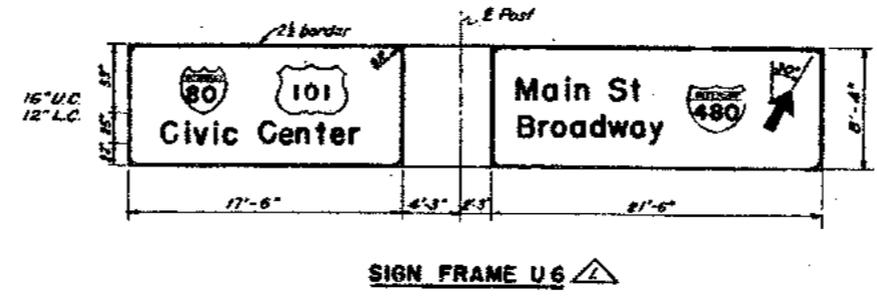
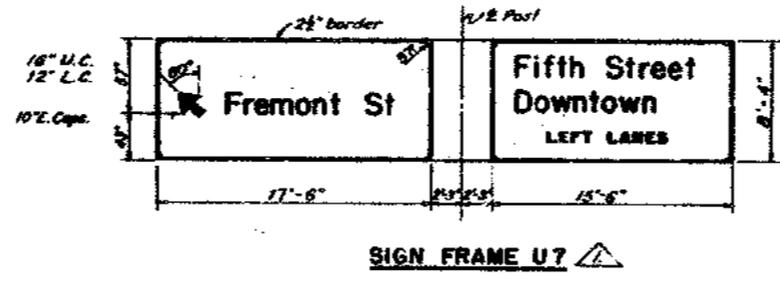
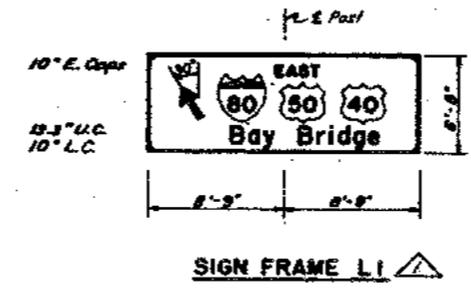
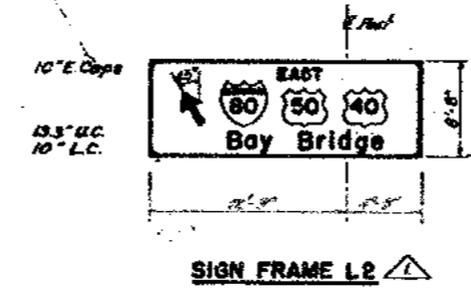
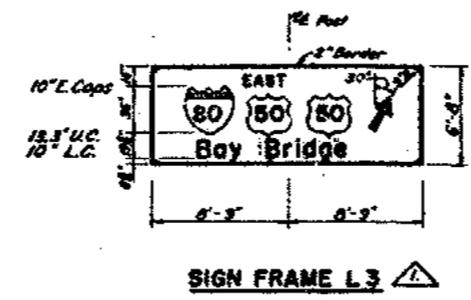
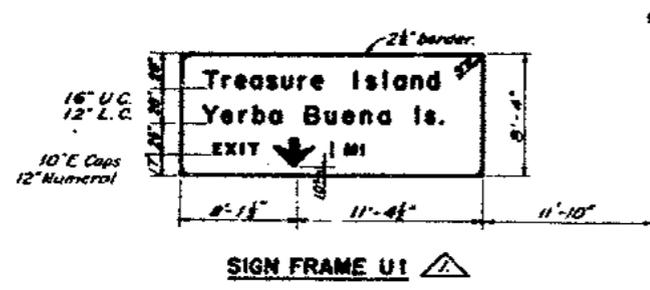
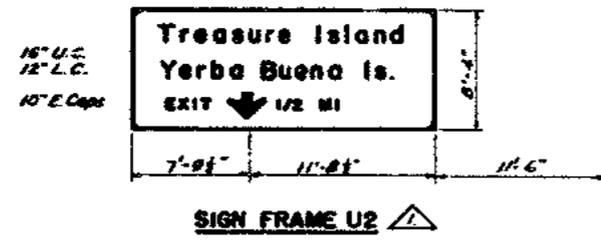
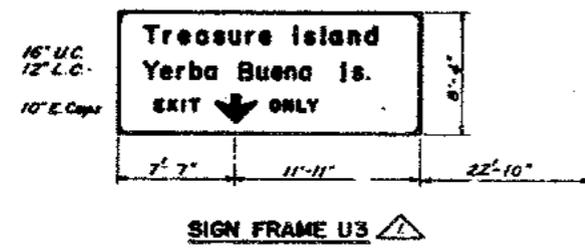
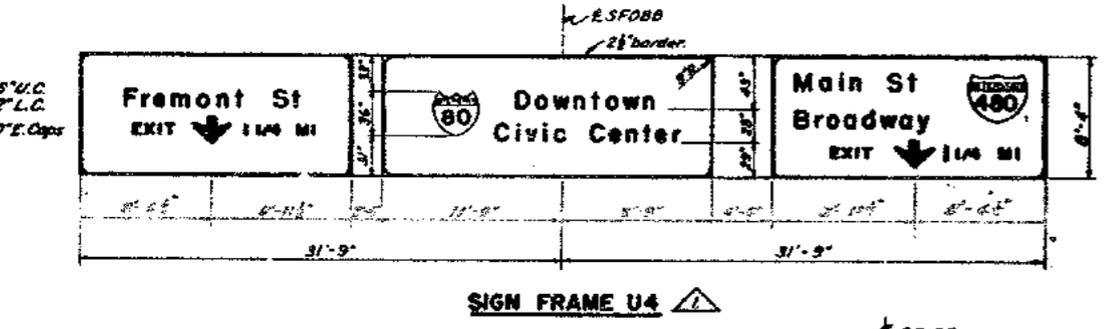
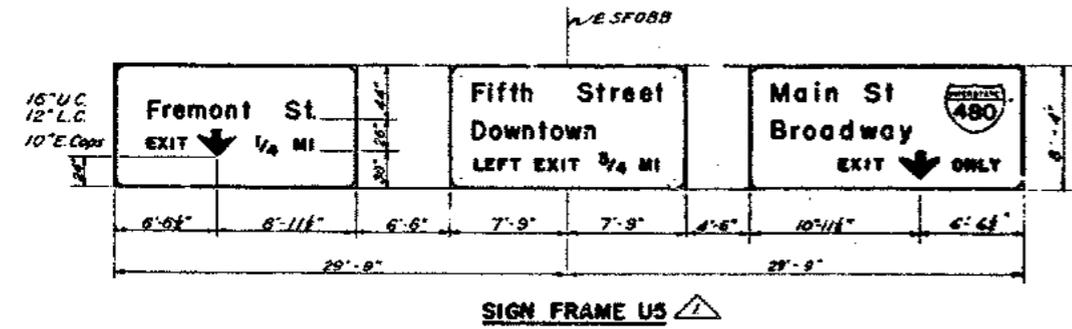
SUPPLEMENTAL CONTRACT DRAWING

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING
OVERHEAD SIGNS-LOCATION PLAN**

SCALE NO SCALE	BRIDGE 34-04	SHEET NO 21	DRAWING C 4033-21A
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MARK	DATE	DESCRIPTION	BY	CHK
△	91-26	As built with revisions	L.C.E.	ENH
△	4/1/63	Sign message and frame location changed.	WOC	HR'S



- NOTES**
1. Use standard alphabet for upper case and lower case letters. Use series E alphabet for capital letters.
 2. Sign dimensions shown are for the illuminated face of the sign, exclusive of the metal frame.
 3. Vertical and border dimensions shown are typical.
 4. All signs shown shall have white letters, arrows and borders on a green background. U.S. Route Shields shall have a black legend on a white background. Interstate shields shall have a white legend on a red and blue background.



SUPPLEMENTAL CONTRACT DRAWING

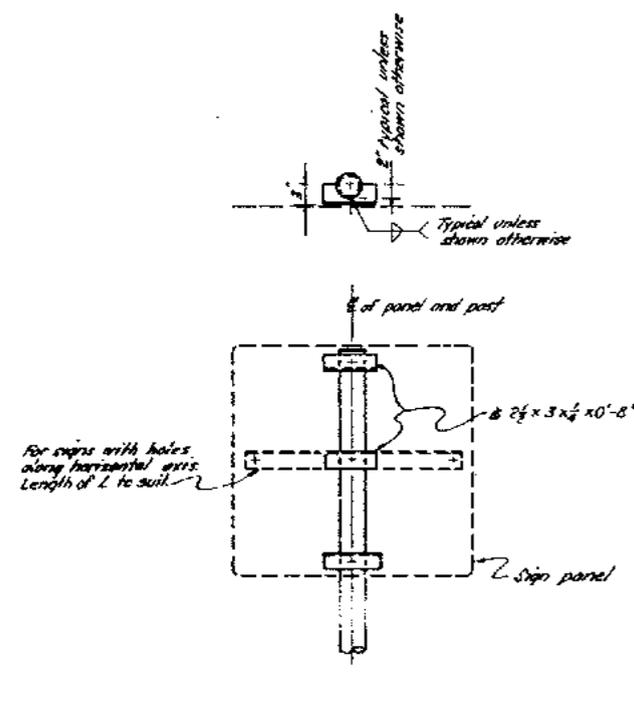
STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL DRAWINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING**

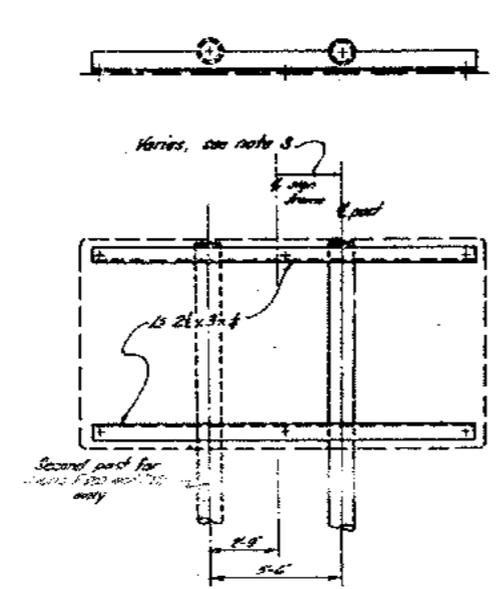
OVERHEAD SIGN FORMAT

MARK	DATE	DESCRIPTION	BY	CHK.
1	9-1-64	As built without revision	CFC	ENK
1	4-17-63	Sign message and dimensions changed	WOC	WRS

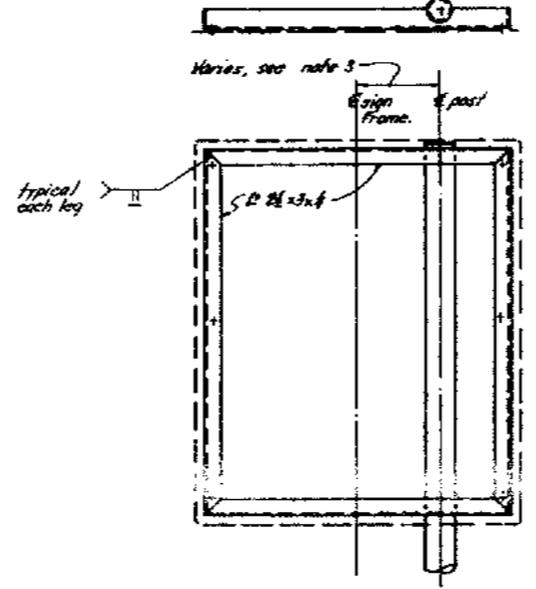
SCALE 3/4" = 1'-0" BRIDGE 34-03 34-04 SHEET NO. 22 DRAWING C-4033-22



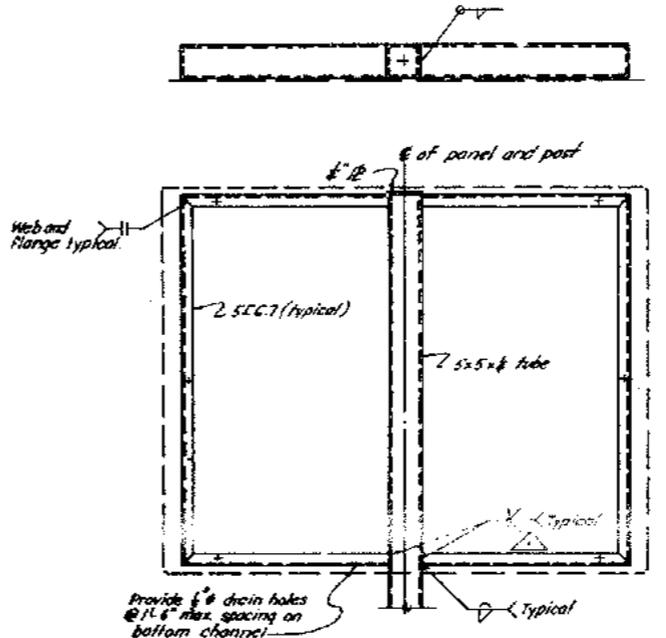
TYPE I



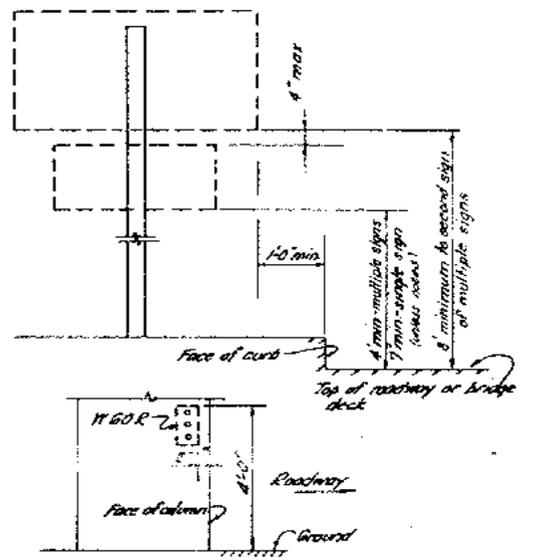
TYPE II



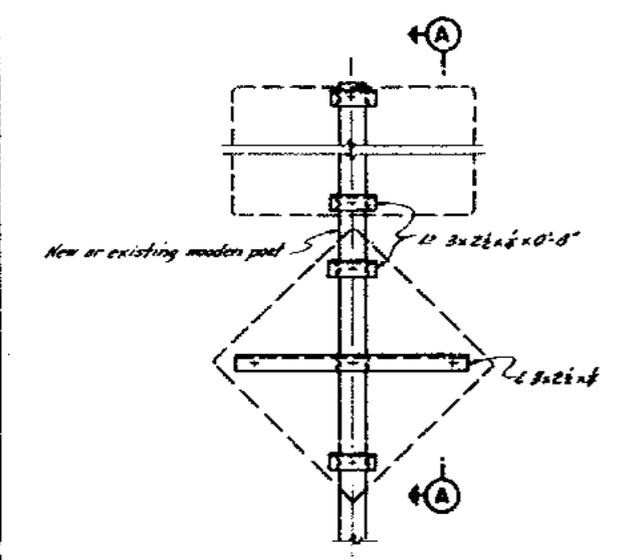
TYPE III



TYPE IV

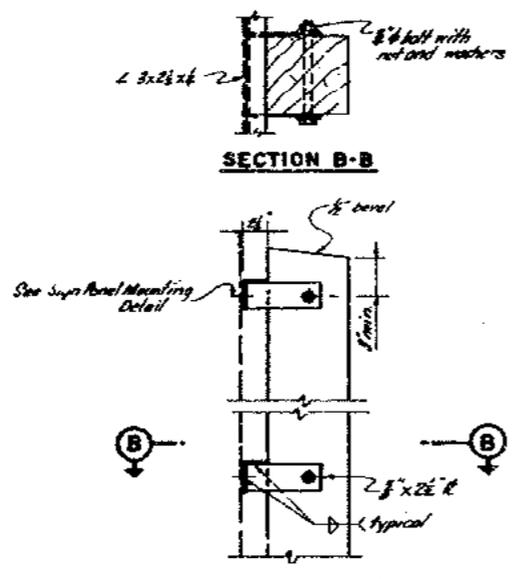


CLEARANCE DIAGRAMS



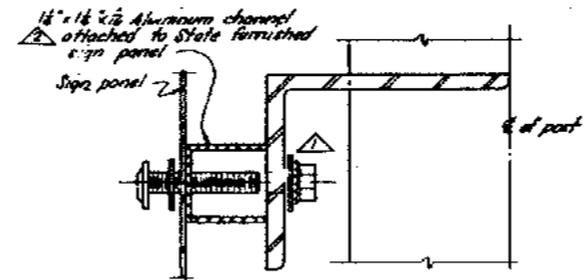
ELEVATION

TYPE V
(Signs on wooden post)

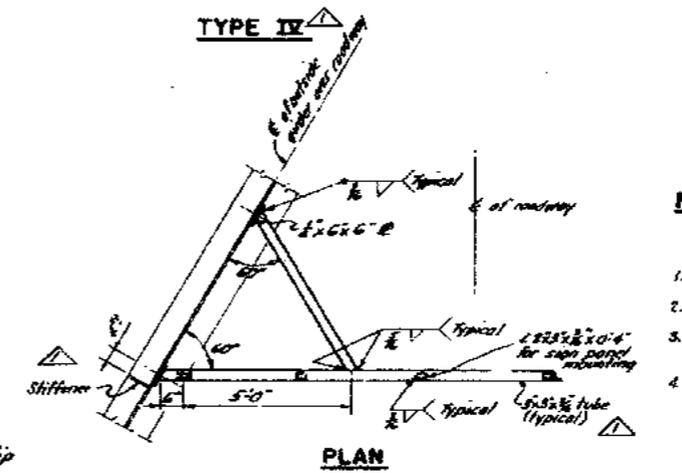
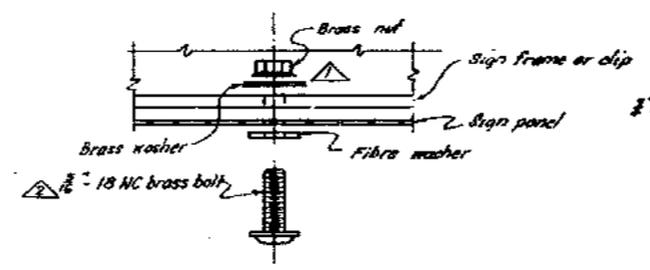


SECTION A-A
Scale 3" = 1'-0"

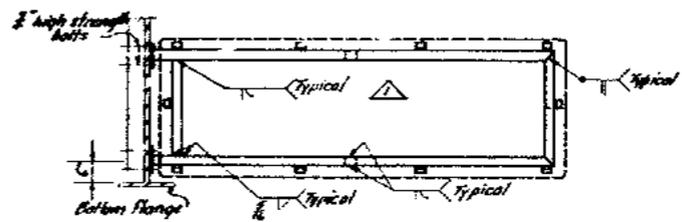
SECTION B-B



SIGN PANEL MOUNTING DETAILS
(Bolt assemblies shown shall be state furnished)
No scale



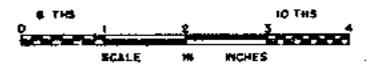
PLAN



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

NOTES

1. For location of each type of frame see Sheets 15, and 16
2. For sign mounting details see Sheet 25
3. Center mount sign frame to post. Eccentric mounting where required for clearance.
4. Fillet weld shall be 1/4" unless shown otherwise.



SUPPLEMENTAL CONTRACT DRAWING

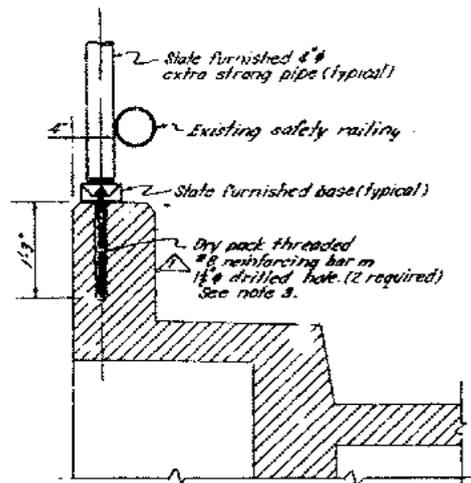
STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS
SAN FRANCISCO OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING

MINOR SIGNS - FRAMING DETAILS

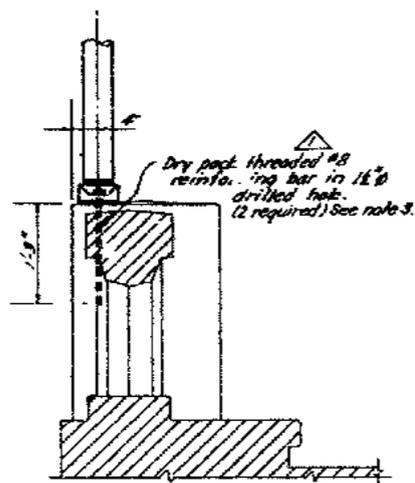
MARK	DATE	DESCRIPTION	BY	CHK
△	9-1-64	As built with revisions	c/c	ZML
△	4-17-65	Changed washer location and added notes and symbols	J/K	HY
		REVISION		

UNLESS NOTED	BRIDGE	SHEET No.	DRAWING
SCALE 1" = 1'-0"	33-25 34-03 34-04	24	C4033-24R

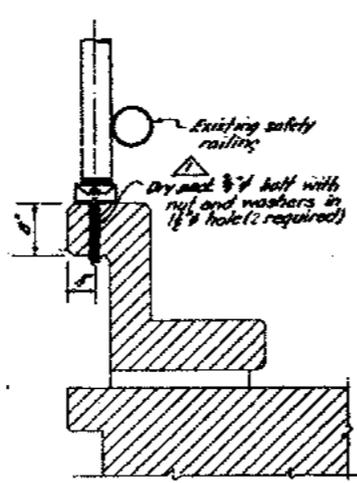
DESIGN AND DETAILS REVIEWED BY C. S. PETERSON, P.E.



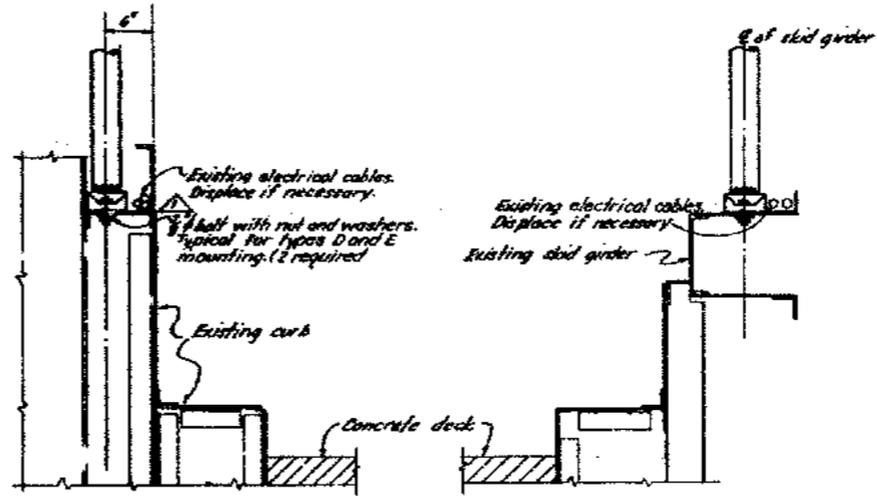
TYPE A



TYPE B

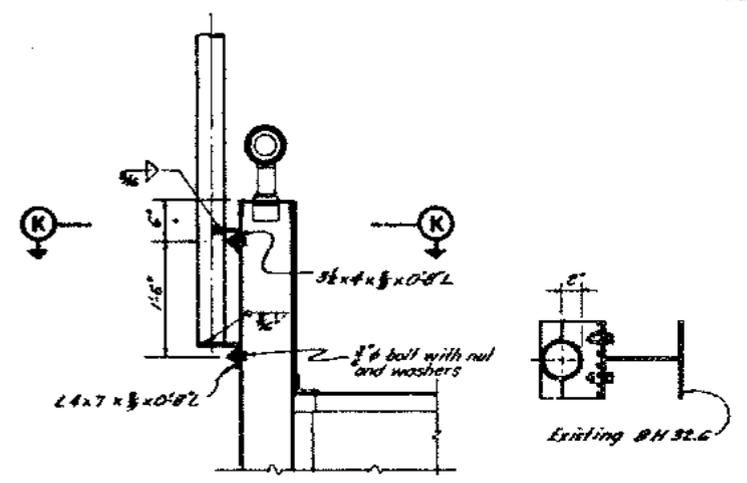


TYPE C



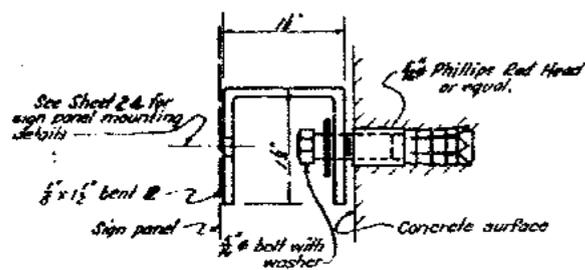
TYPE D

TYPE E

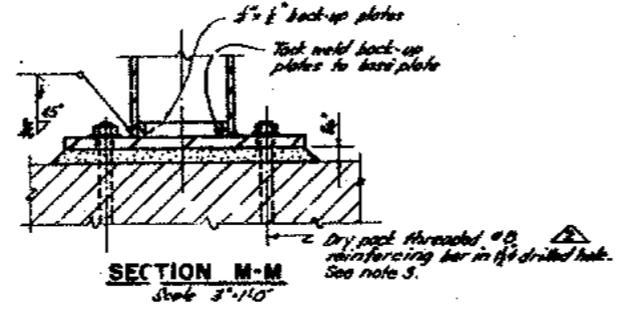


TYPE F

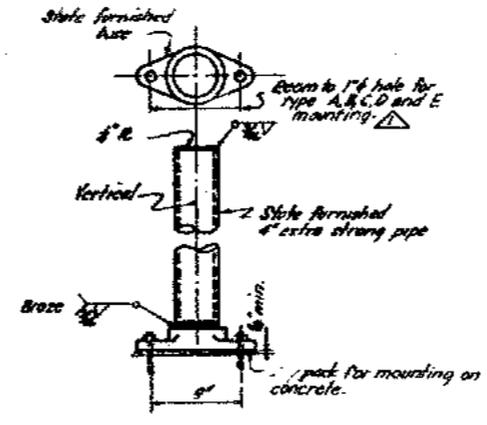
SECTION K-K
Scale 1/8" = 1'-0"



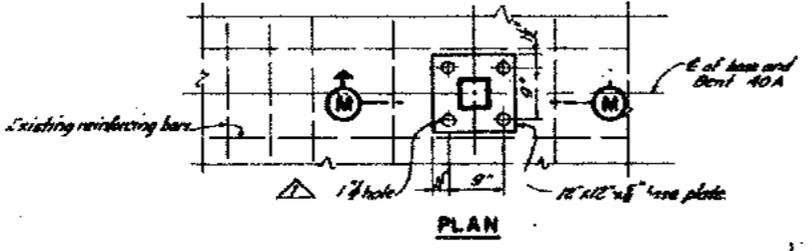
CONCRETE ANCHORING DETAIL
Full size



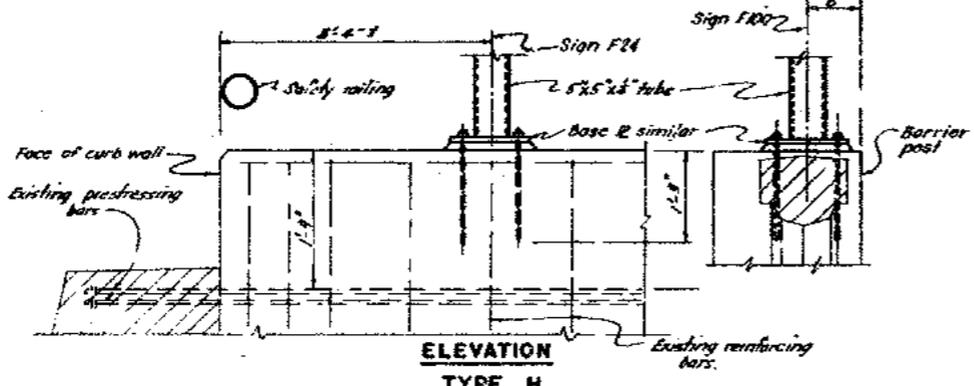
SECTION M-M
Scale 3" = 1'-0"



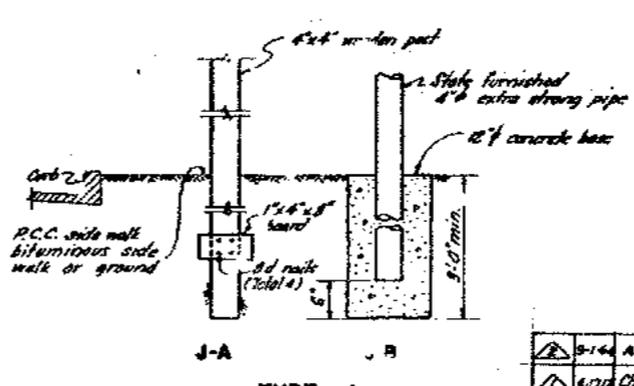
SIGN POST AND BASE
1/4 scale



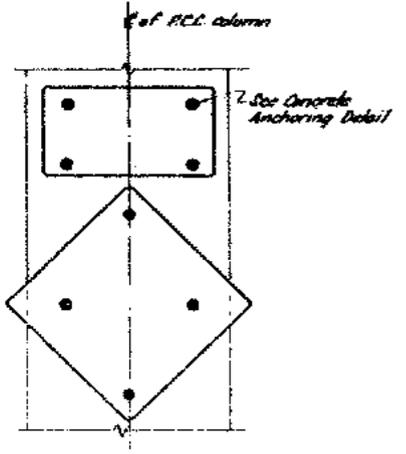
PLAN



ELEVATION
TYPE H



TYPE J



TYPE G

- NOTES**
1. For location of each type of mounting see Sheets 15 and 16.
 2. For sign framing details see Sheet 24.
 3. Drypacked #8 reinforcing bars shall be structural steel with turned threads (nominal diameter 1/2") that dip galvanize top 12".
 4. Drypack threaded bars and bolts with "embeco" grout or equal.
 5. For additional notes see Sheet 26.



SUPPLEMENTAL CONTRACT DRAWING

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

MINOR SIGNS - MOUNTING DETAILS

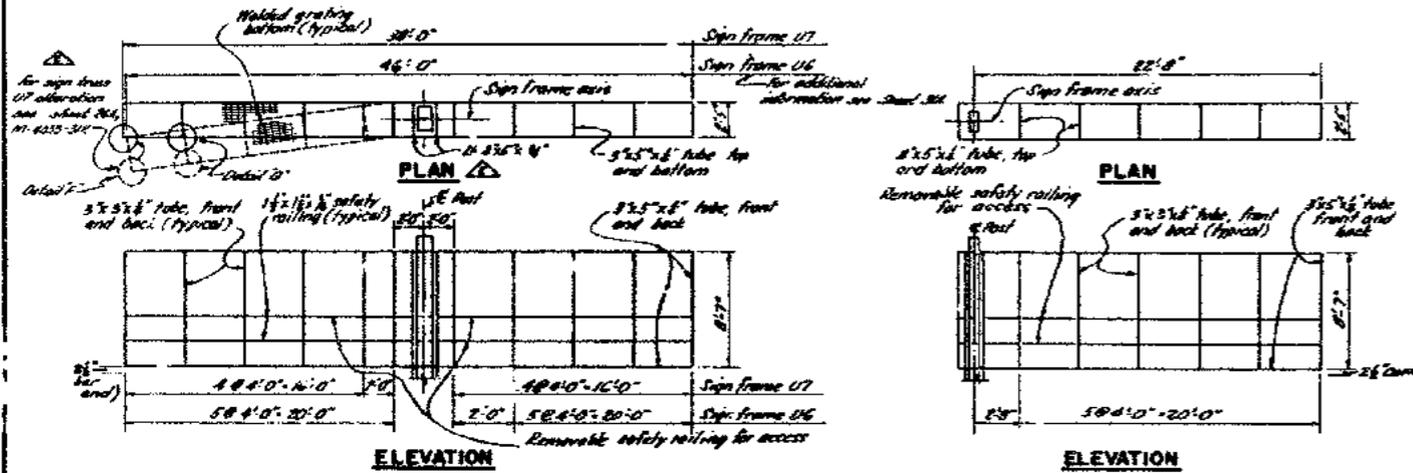
MARK	DATE	DESCRIPTION	BY	CHK
9-14		As built with revision.	clc	RMA
4-17		Changed size of anchor bolts	JK	HK

UNLESS NOTED
SCALE 1" = 1'-0"

BRIDGE 55-25
34-03
34-04

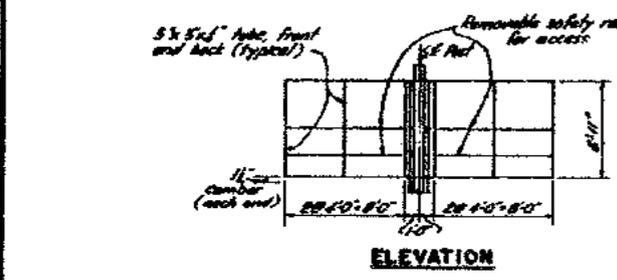
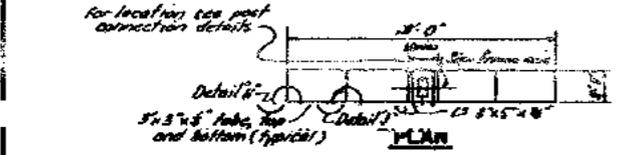
SHEET NO. 25

DRAWING C403325

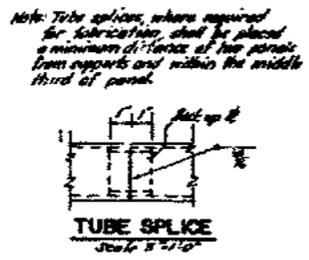


SIGN FRAMES U6 AND U7
Scale 1/4" = 1'-0"

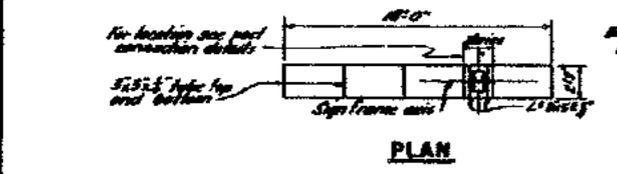
Note: Dimensions of sign frames are given to center line of tubes. Elevations are shown looking at the internally illuminated sign side.



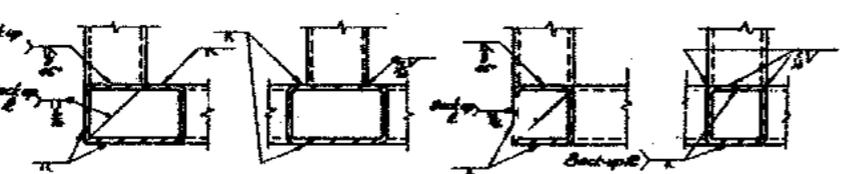
SIGN FRAMES L1 AND L3
Scale 1/4" = 1'-0"



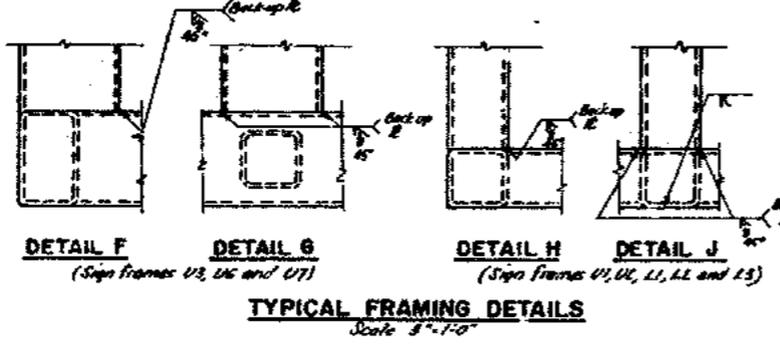
TUBE SPLICE
Scale 3/4" = 1'-0"



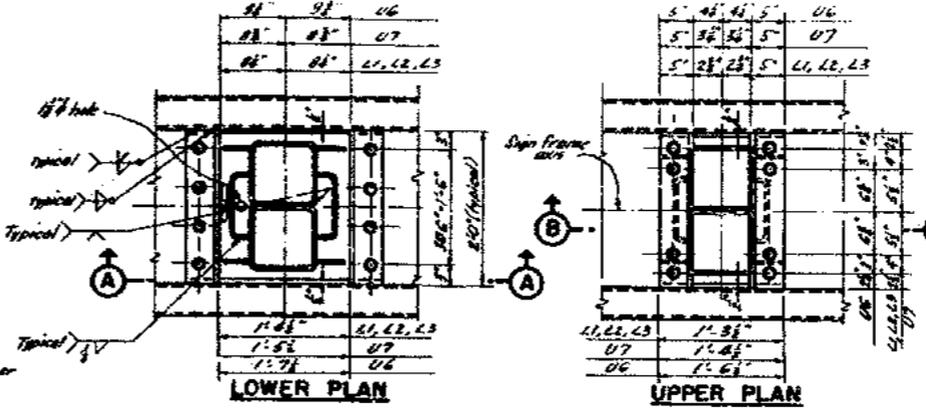
SIGN FRAME L2
Scale 1/4" = 1'-0"



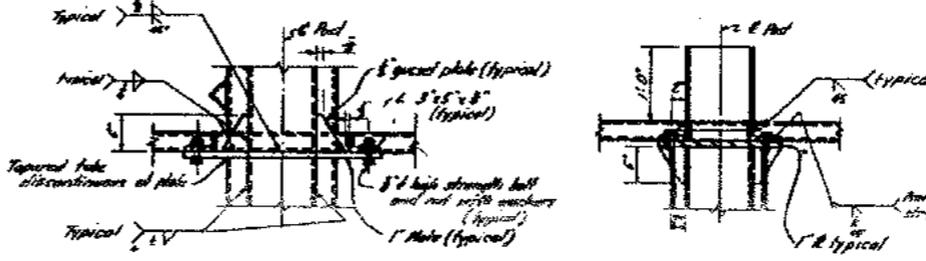
SIGN FRAMES U1 AND U2
Scale 1/4" = 1'-0"



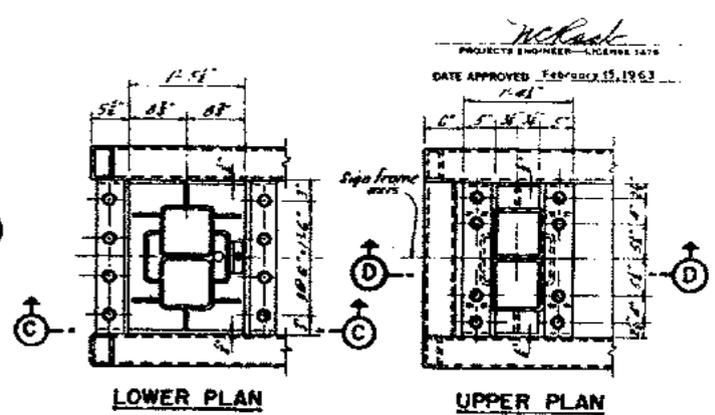
TYPICAL FRAMING DETAILS
Scale 3/4" = 1'-0"



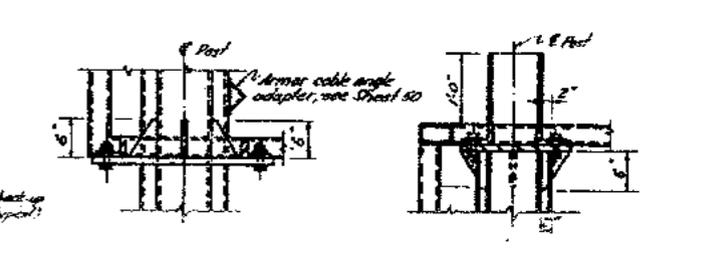
LOWER PLAN
UPPER PLAN



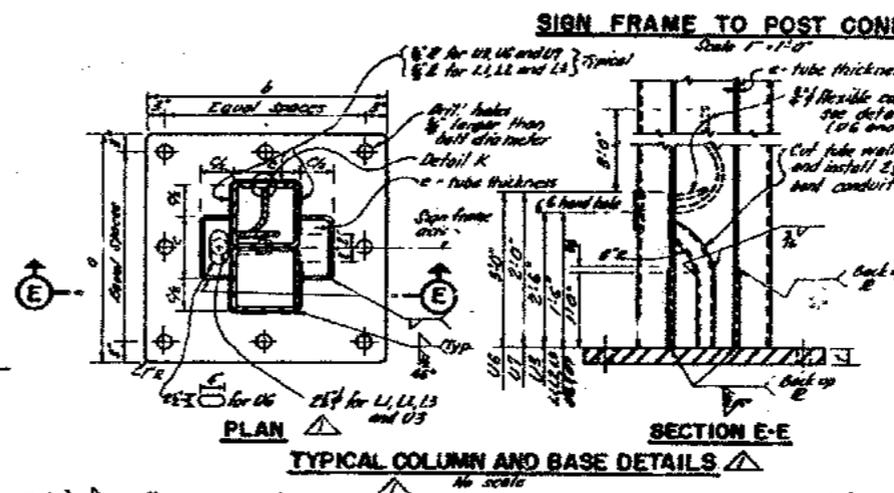
SECTION A-A
SECTION B-B
SIGN FRAMES U6, U7, L1, L2 AND L3



LOWER PLAN
UPPER PLAN



SECTION C-C
SECTION D-D
SIGN FRAME U3



SECTION E-E
TYPICAL COLUMN AND BASE DETAILS

SIGN FRAME	BASE PLATE			ANCHOR BOLTS			COLUMN		
	A	B	C	No.	Size	Layout	C	E	Bottom Flange
L1	1'-0"	1'-7"	2"	4	3/4"	A	7"	7"	10"
L2	1'-0"	1'-7"	2"	4	3/4"	A	7"	7"	10"
L3	1'-0"	1'-7"	2"	4	3/4"	A	7"	7"	10"
U3	2'-1"	2'-0"	2 1/2"	8	3/4"	C	8"	8"	14"
U6	3'-0"	3'-0"	2 1/2"	8	3/4"	B	10"	10"	14"
U7	2'-7"	2'-5"	2 1/2"	8	3/4"	B	8"	8"	13"

ANCHOR BOLT LAYOUT

A: Sign Frame axis, B: Sign Frame axis, C: Sign Frame axis

NOTES
1. For general design rates for sign frames see Sheet 5.
2. For location of sign frames see Sheet 21.
3. For detail of grating and safety railing see Sheet 29.
4. For details of mounting brackets for the internally illuminated signs see Sheet 28.

Materials for sign frame structures:
a. Hollow structural tubing - ASTM specification A 513.
b. Plates and shapes welded to sign frame - A 36.
c. All other shapes and plates - A 7 or A 36.
d. Reinforcement - inherent grade except structural grade for dry packed threaded bars.
e. 1 1/2" x 1/2" safety railing formed from steel tube ASTM specification A 513.



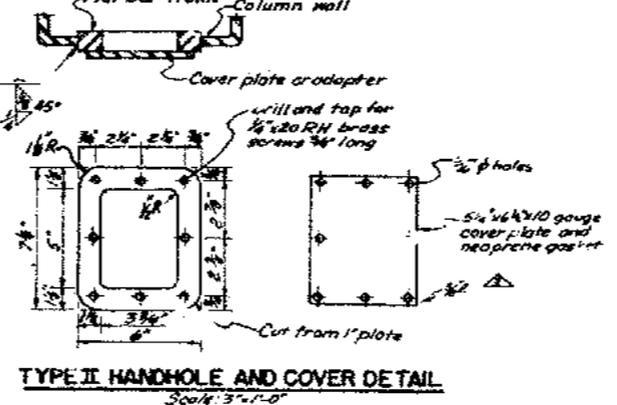
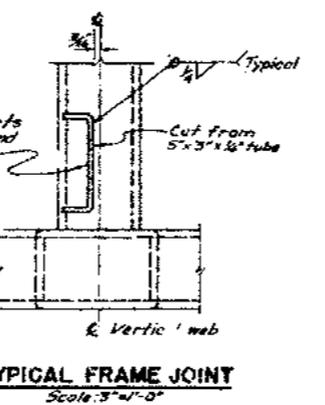
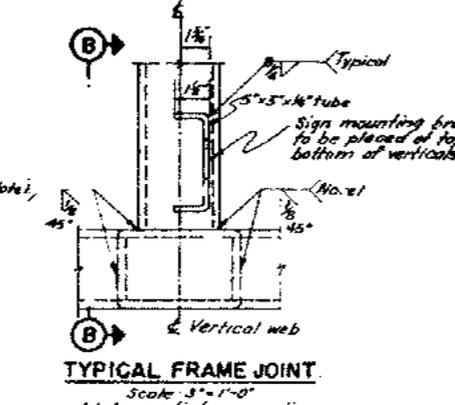
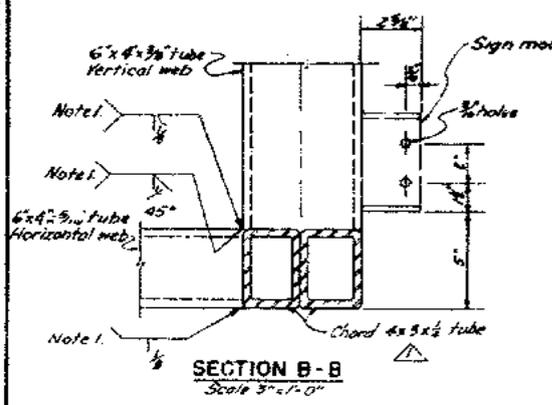
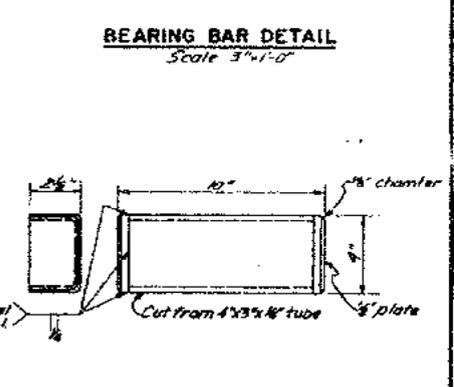
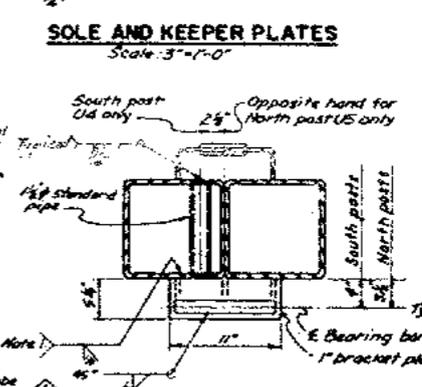
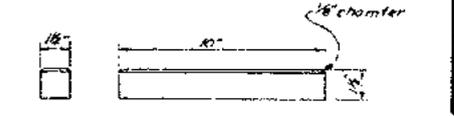
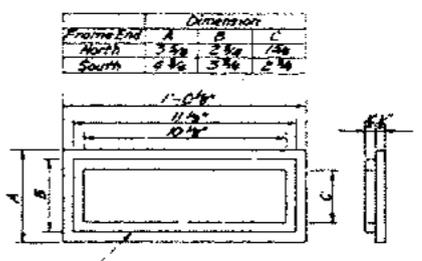
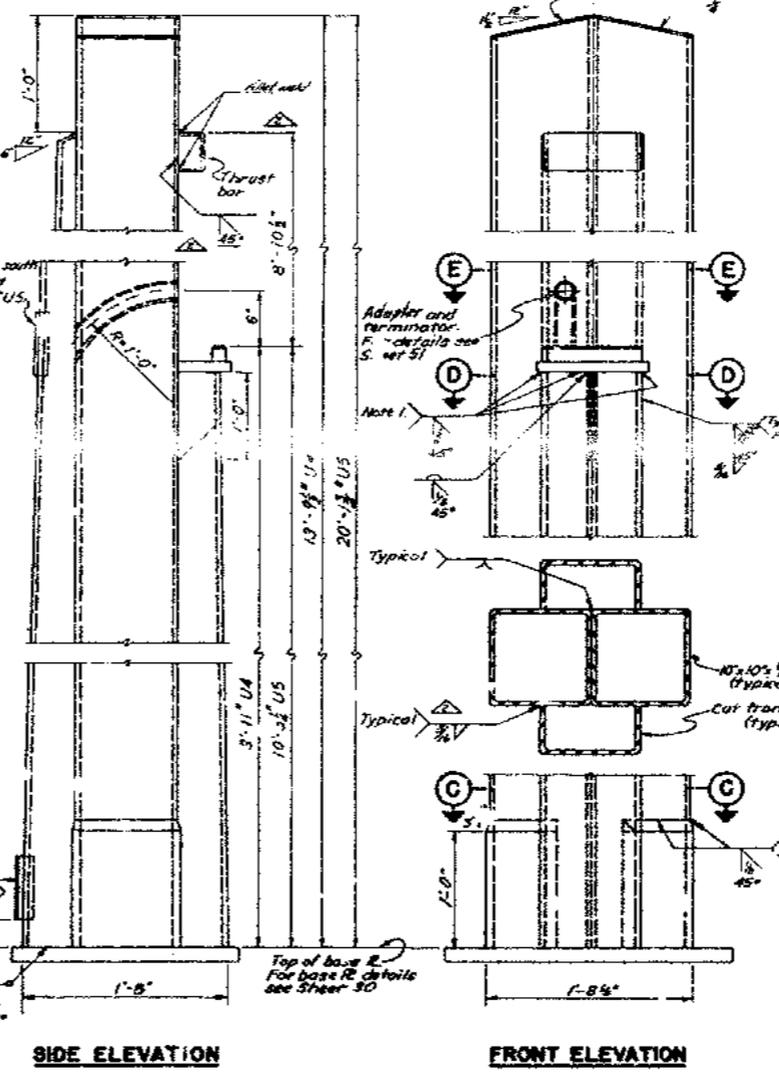
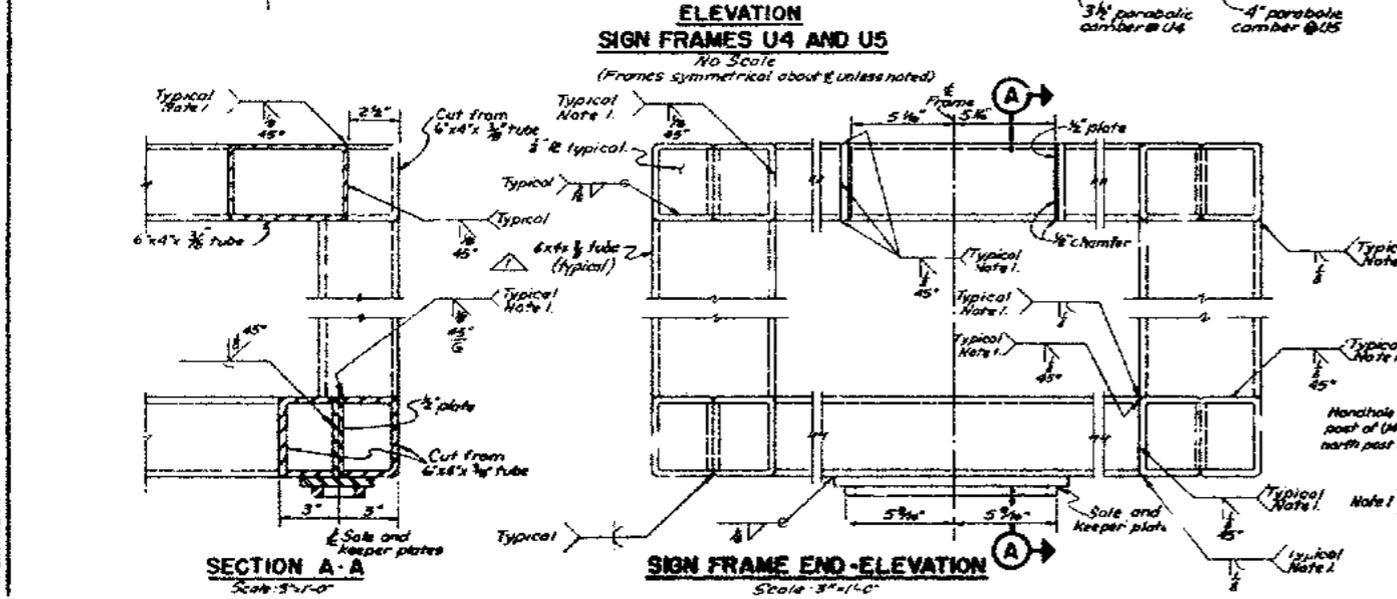
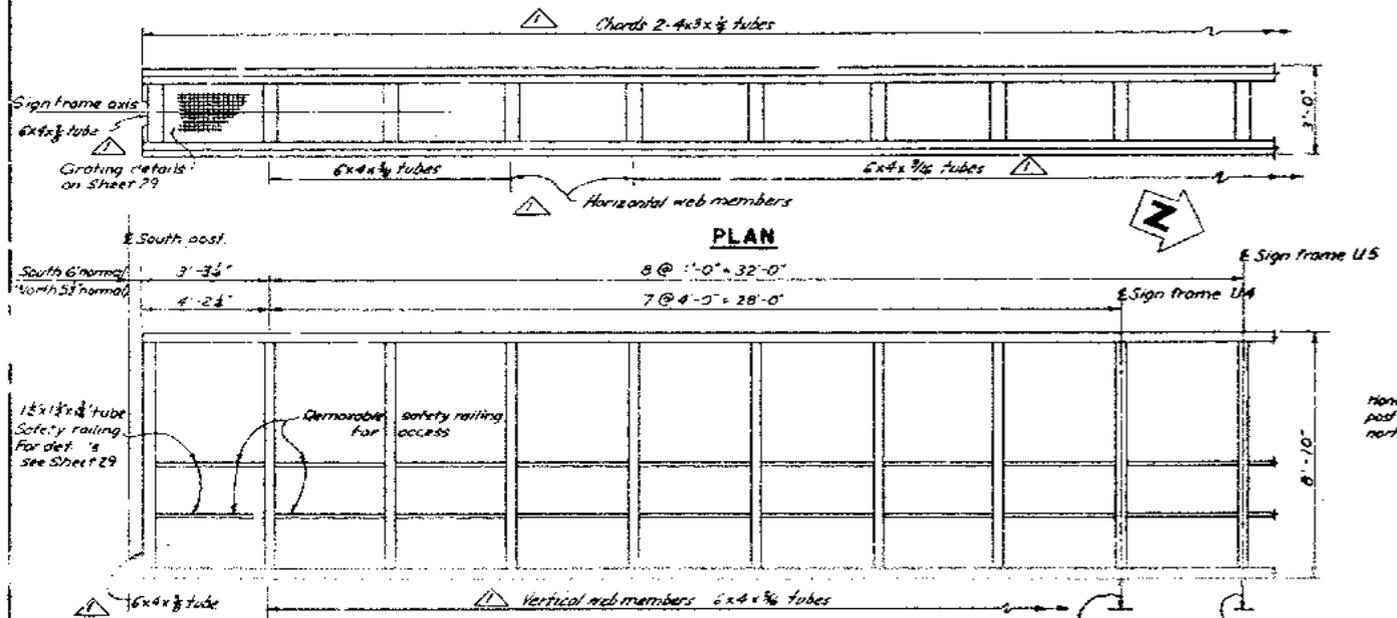
SUPPLEMENTAL CONTRACT DRAWING

SAN FRANCISCO-OAKLAND BAY BRIDGE			
RECONSTRUCTION DECK SURFACING			
SIGN FRAMES U1 TO U3, U6, U7, L1 TO L3 - DETAILS			
SCALE AS SHOWN	BRIDGE	SHEET No. 26	DRAWING C4033-26

TYPE I HANDHOLE AND COVER DETAILS

Type I handhole for sign frames L1, L2, L3, U3 and U7. See Sheet 27 for Type II handhole for sign frames U6, U7 and U8.

MARK	DATE	DESCRIPTION	BY	CHK
ADD		As built with revisions	J.L.S.	R.M.L.
ADD		Added notes and changed column sizes.	J.L.S.	H.H.



- NOTES**
1. Provide back-up 51'-0".
 2. For tube-splice detail see Sheet 26.
 3. For mounting and base plate details see Sheet 30.
 4. For additional notes see Sheet 26.
 5. See Sheet 26 for location of verticals to receive sign or utility brackets.
 6. For additional information see sheet 31A.



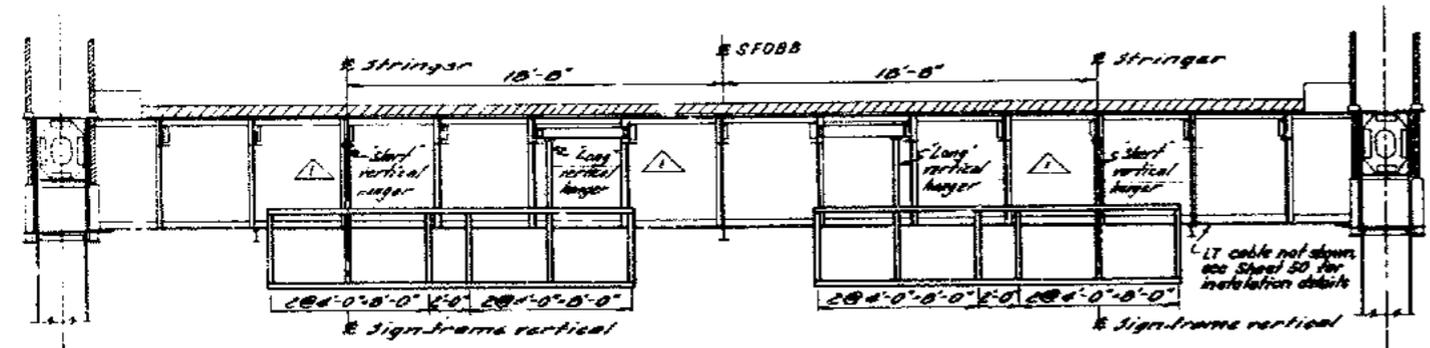
MARK	DATE	DESCRIPTION	BY	CHK
9-114		As built with revisions	JK	EMC
11-114		Changed sizes of chords, webs and posts.	JK	HK

SUPPLEMENTAL CONTRACT DRAWING

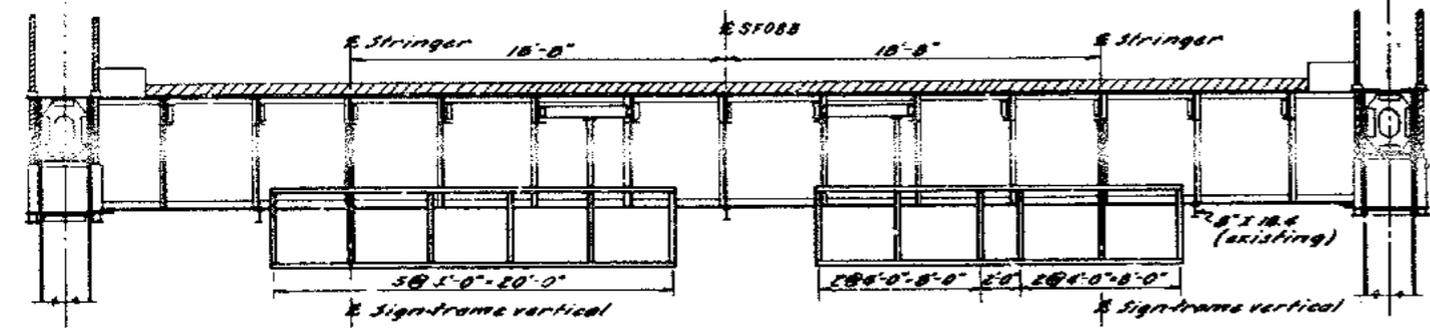
SAN FRANCISCO - OAKLAND BAY BRIDGE RECONSTRUCTION DECK SURFACING

SIGN FRAMES U4 AND U5 - DETAILS

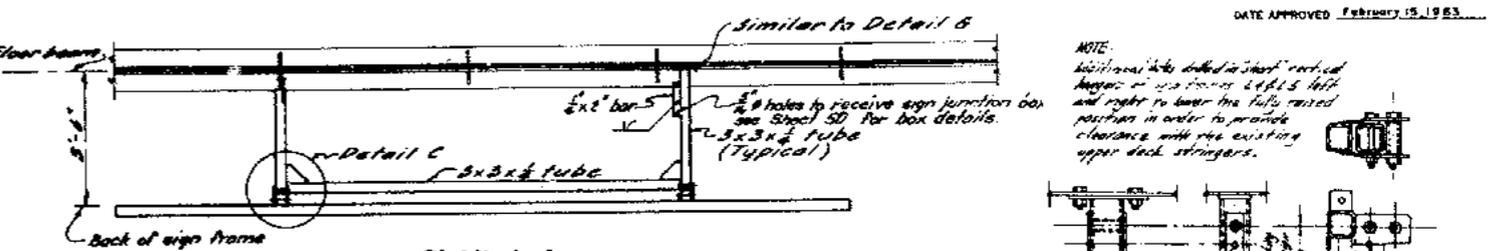
SCALE AS SHOWN BRIDGE 34-04 SHEET No 27 DRAWING C403A-27



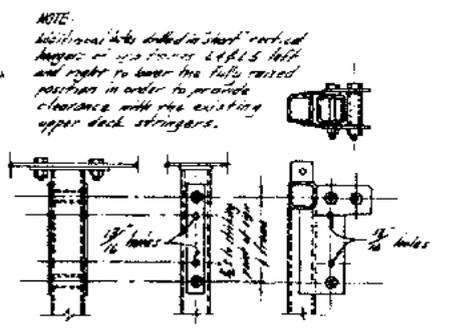
SIGN FRAMES L4 AND L5 - WEST ELEVATION



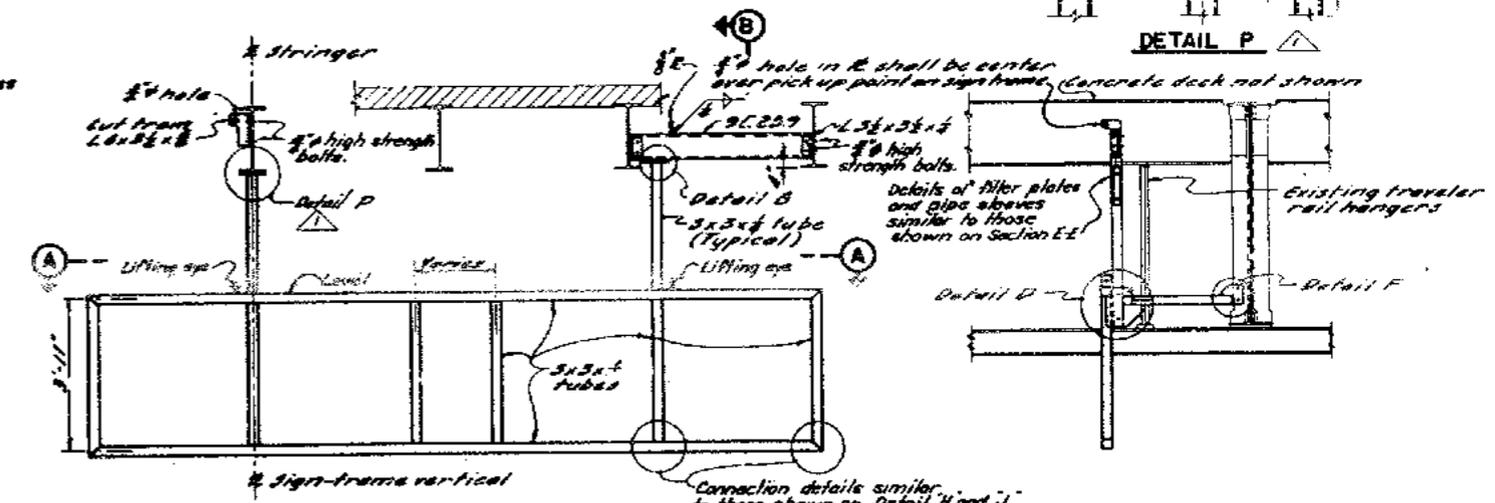
SIGN FRAME L6 - WEST ELEVATION



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

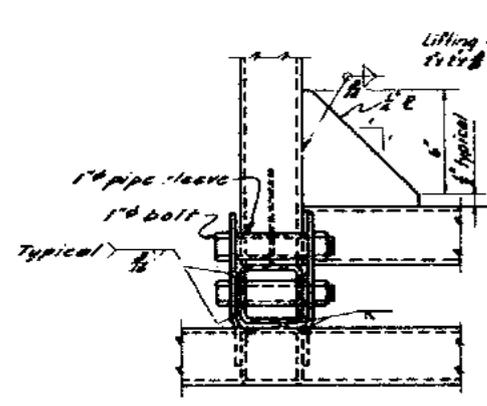


DETAIL P

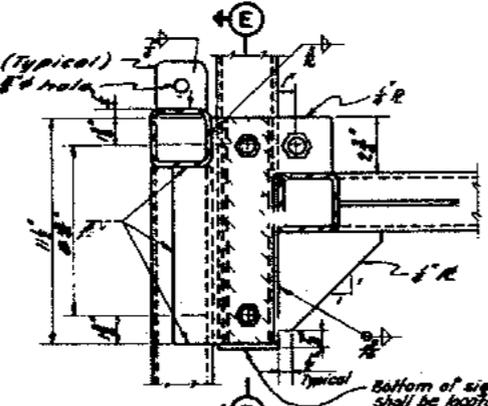


ELEVATION - TYPICAL SIGN FRAME
Scale: 1/2" = 1'-0"

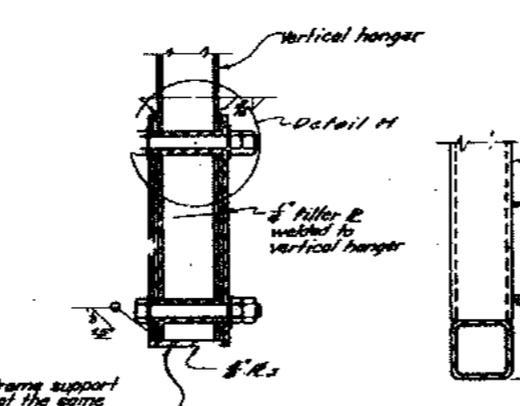
SECTION B-B
Scale: 1/2" = 1'-0"



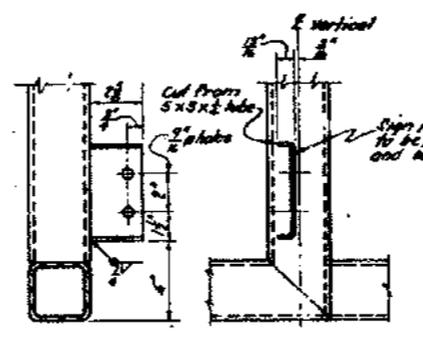
DETAIL C
Scale: 3/4" = 1'-0"



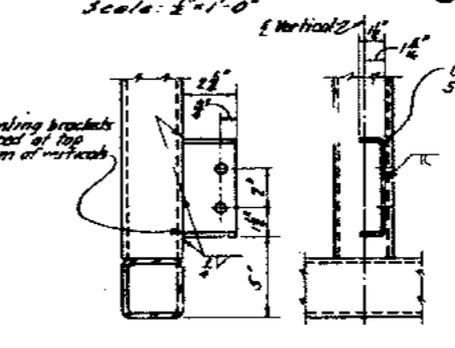
DETAIL D
Scale: 3/4" = 1'-0"



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

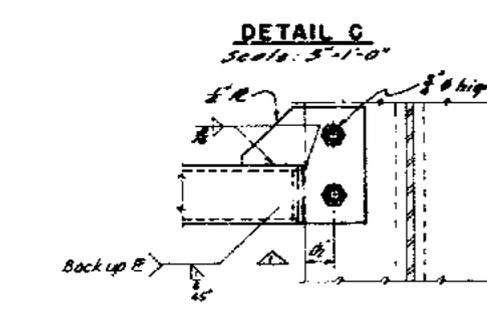


END MOUNTING
(and vertical shown)

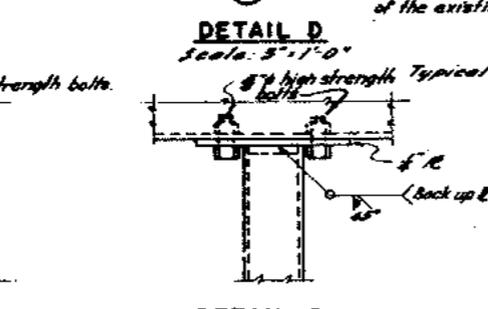


INTERMEDIATE MOUNTING

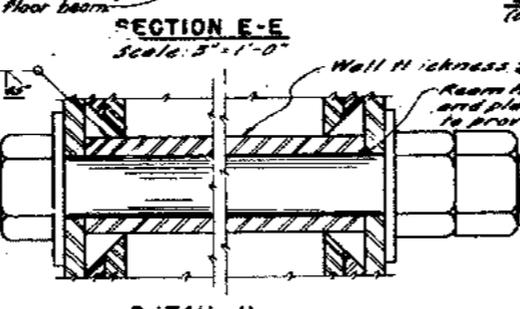
TYPICAL SIGN MOUNTING BRACKET DETAILS
Scale: 3/4" = 1'-0"



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



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



DETAIL H
Scale: Full size

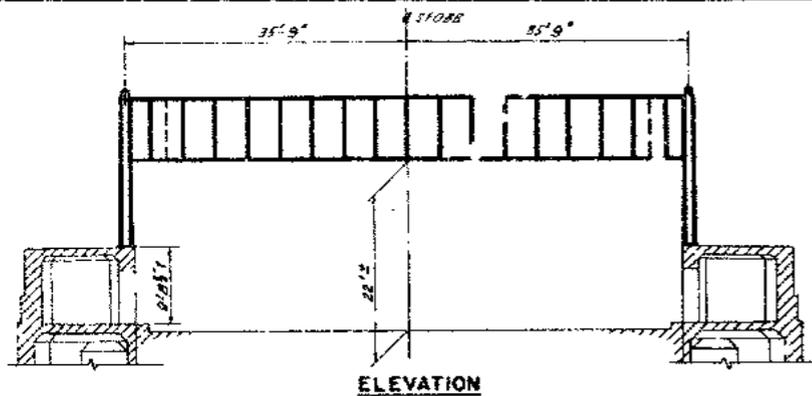
- NOTES**
1. For sign frame location see Sheet 21
 2. Sign frames shall have a minimum clearance of 17'-0" above the lower deck roadway.
 3. Dimensions for sign frames are given to the center line of tubes.
 4. For additional notes see Sheet 26.
 5. For location of verticals to receive sign mounting brackets, see Sheet 46.



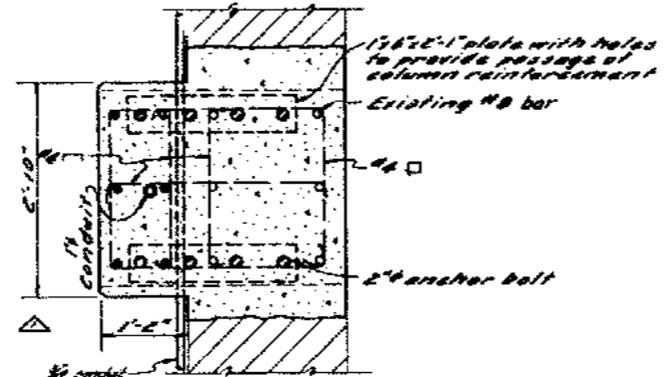
SAN FRANCISCO - OAKLAND BAY BRIDGE RECONSTRUCTION DECK SURFACING			
SIGN FRAMES L4, L5 AND L6 - DETAILS			
UNLESS NOTED	33-25		
SCALE 1/4" = 1'-0"	BRIDGE 34-04	SHEET No. 28	DRAWING C4033-28R

1-14	As built with revisions	KZ	CHK
MARK DATE	DESCRIPTION	BY	CHK
	REVISION		

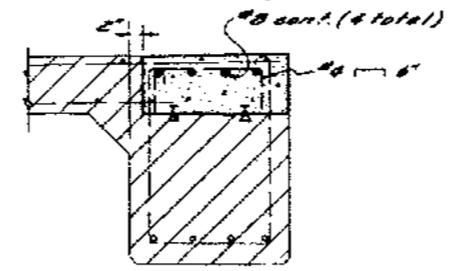
DESIGNED AND DRAWN BY: C. E. GUNDA, S.F.C.A.



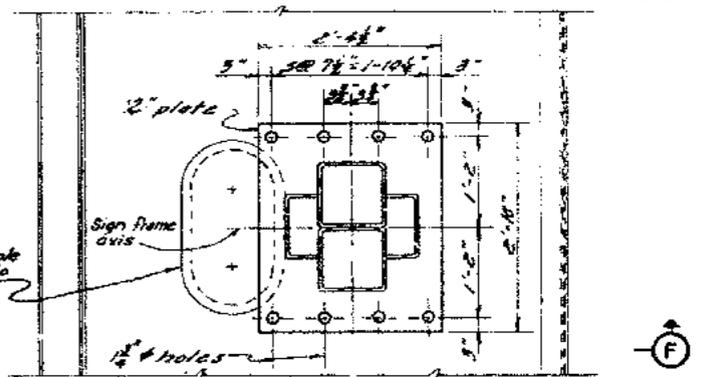
ELEVATION



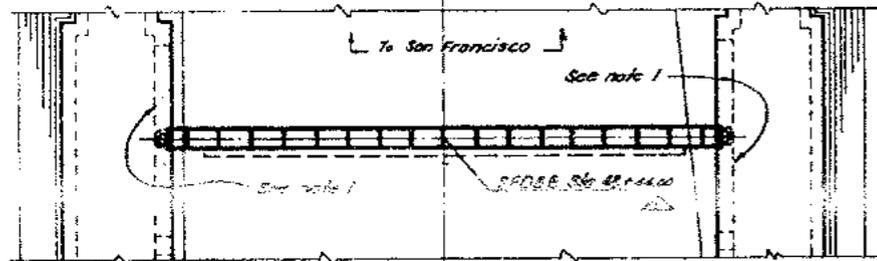
SECTION A-A



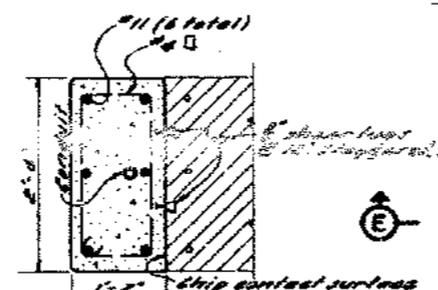
SECTION B-B



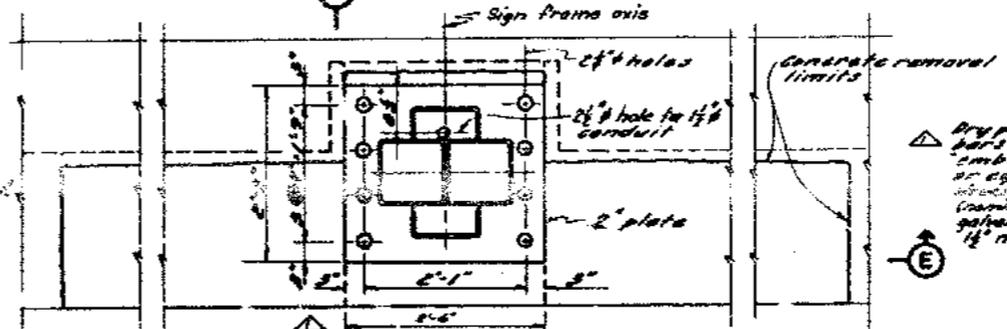
PLAN



PLAN
SIGN FRAME U5
AT S.F. ANCHORAGE



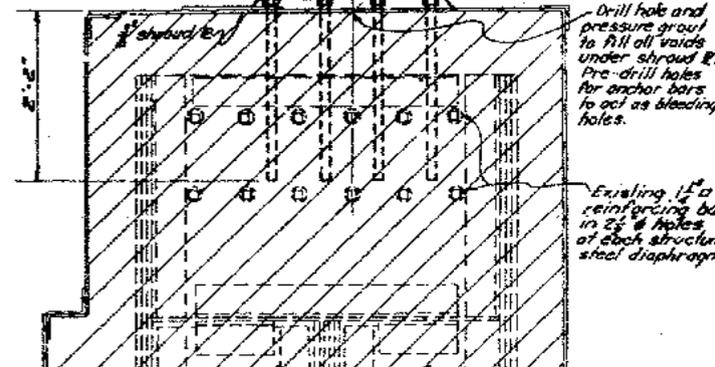
SECTION C-C



PLAN

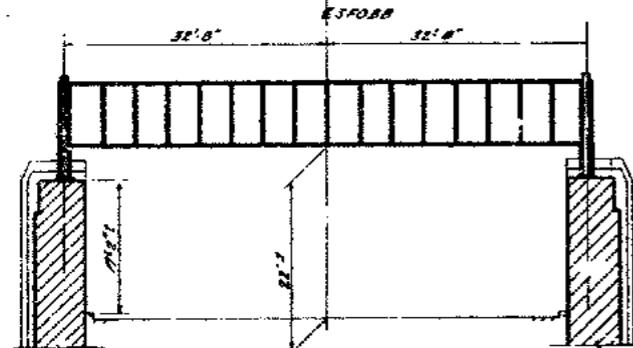
△ Dry pack #14 threaded reinforcing bars in 2 1/2" drilled holes with embase epoxy shrink grout or equal. #14 bars shall be structural steel with turned threads nominal diameter (1/4) 161 dip galvanizing top 18" of bars. 1/2" nuts and washers.

△ Dry pack with embase epoxy shrink grout. Finish outer with cement grout.

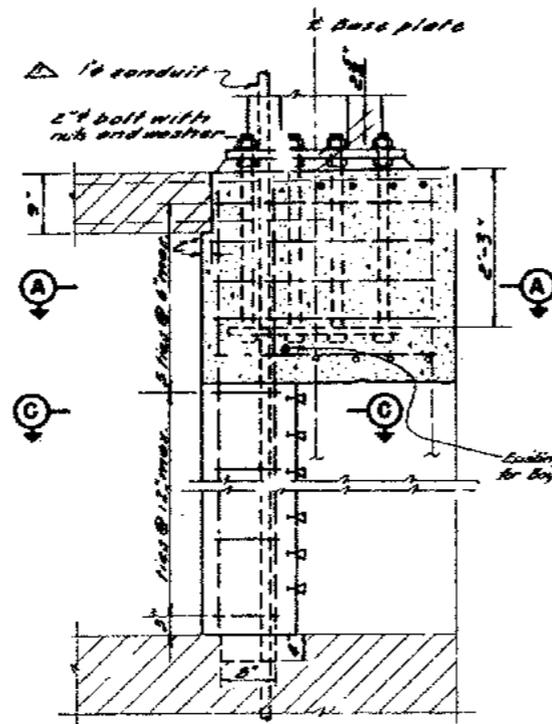


SECTION F-F
MOUNTING DETAILS
SIGN FRAME U4

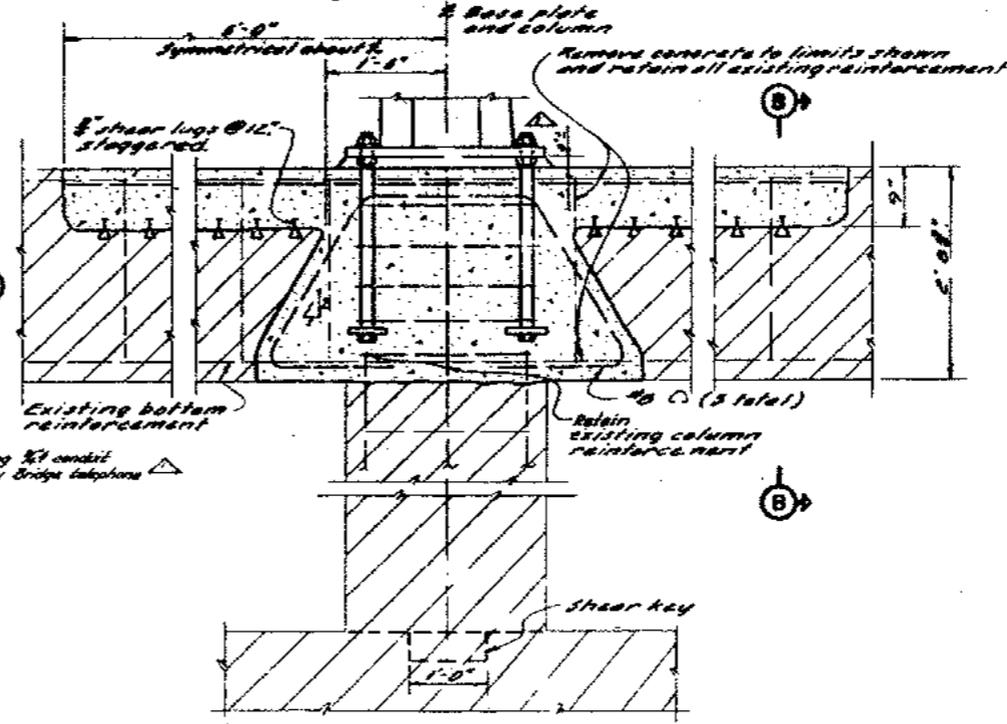
- NOTES Scale: 1"=1'-0"
1. Shore beams before concrete removal. Shoring shall be applied 3' from center line of column. Approximate shoring load is 10,000 pounds.
 2. For sign frame locations see Sheets 15 and 16.
 3. For sign frame details see Sheet 27.
 4. For additional notes see Sheet 26.



ELEVATION

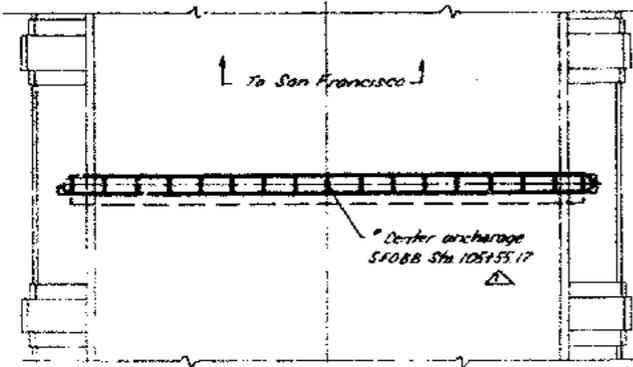


SECTION D-D



SECTION E-E

MOUNTING DETAILS
SIGN FRAME U5
Scale: 1"=1'-0"



PLAN
SIGN FRAME U4
AT CENTER ANCHORAGE

MARK	DATE	DESCRIPTION	BY	CHK
△		As built with revisions	J.C.C.	CHK
		REVISION		

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

SIGN FRAMES U4 AND U5 - MOUNTING DETAILS

UNLESS NOTED SCALE 1"=1'-0"

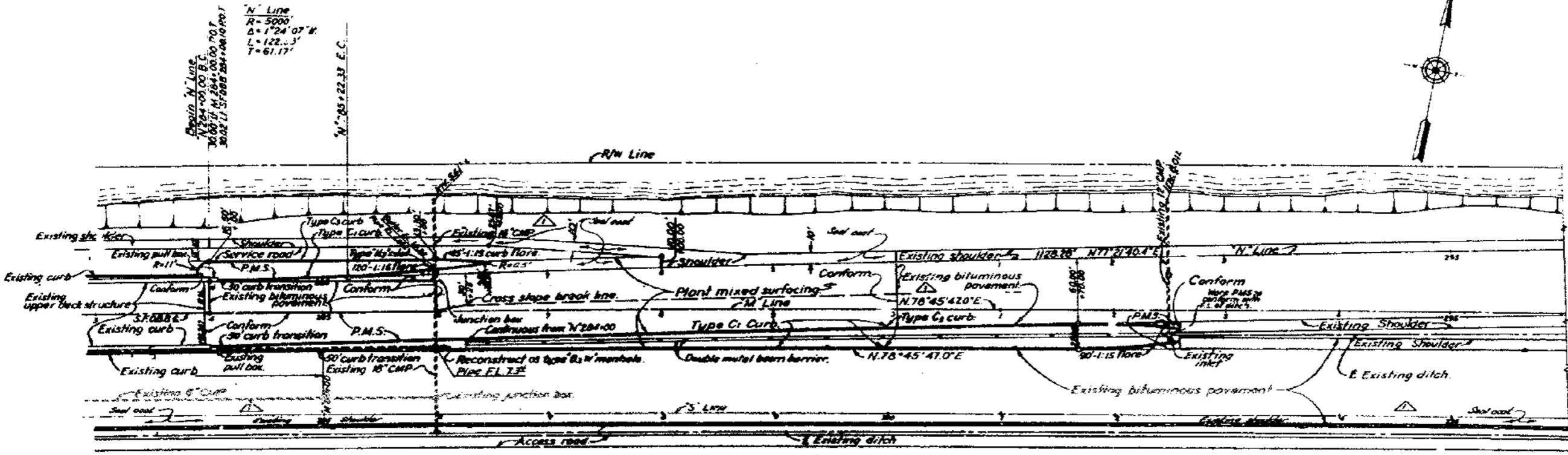
33-25
34-03
BRIDGE 34-04

SHEET NO. 30

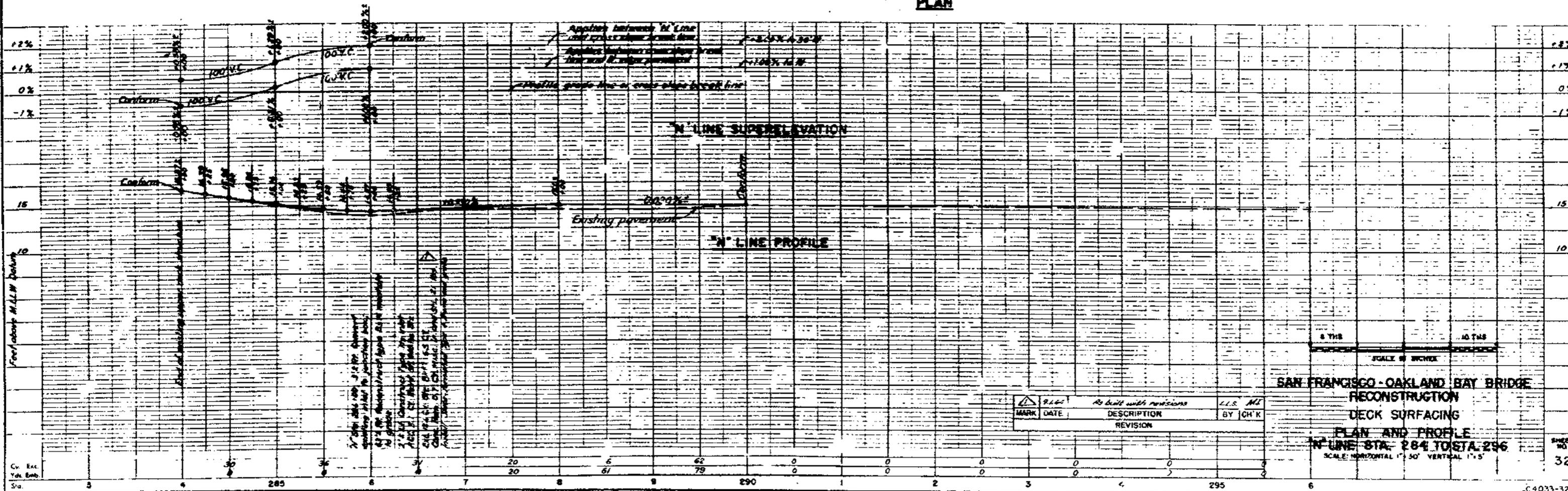
DRAWING C-4033.30A

NOTES

- Elevation datum is SFODB 1933 MLLW datum (3.10' below U.S.C. & G.S. sea level datum 1929).
- Ties to drainage inlets and manholes are approximate and are to the centers of the inlets or manholes.
- Where new drop inlets are to be constructed over existing drains, a portion of the existing drain shall be cut and removed and the new inlet shall be constructed so that all existing pipes will drain into or out of the new drop inlet.
- See "Miscellaneous Roadway Details" sheet for conversion of existing drainage inlets to junction boxes, reconstruction of type B₃W manhole and curb transitions.
- Ties, dimensions and stationing are to the "N" line unless indicated otherwise. See "Typical Sections" sheet for additional information.
- Limits of seal coat on shoulders; left: sta 285+25 to 289+10, Right: 289+50 to 291+50.



PLAN

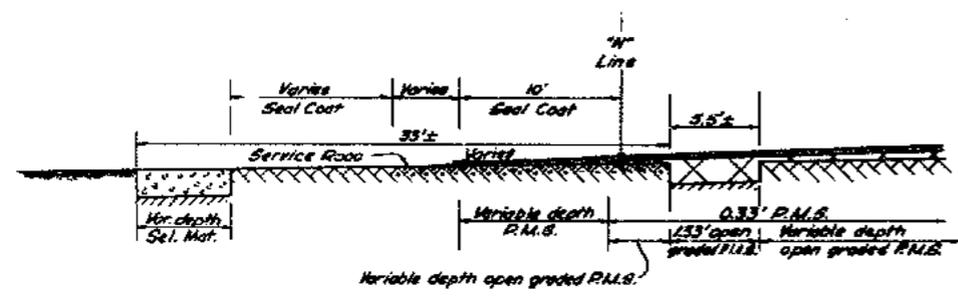


**SAN FRANCISCO - OAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING
 PLAN AND PROFILE
 N LINE STA. 284 TO STA. 296
 SCALE: HORIZONTAL 1" = 50' VERTICAL 1" = 5'**

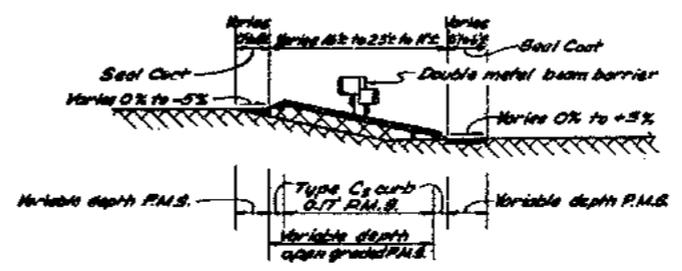
MARK	DATE	DESCRIPTION	BY	CHK
△	5.1.63	As built with revisions	L.L.S.	M.I.
		REVISION		

NOTES

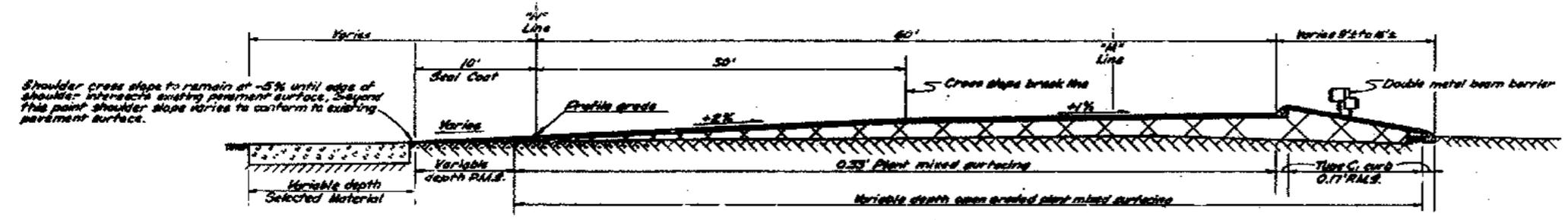
1. Station ranges shown on each section are for general location purposes only. See "Plan and Profile" for additional details.
2. All plant-mixed surfacing shall be Type A unless noted otherwise.
3. Minimum depth of Type A plant-mixed surfacing shall be 0.08 feet. Areas shall be planned to meet this requirement.
4. Minimum depth of open-graded plant-mixed surfacing shall be 0.17 feet.
5. Variable slopes to be determined by referring to super-elevation diagrams as shown on "Plan and Profile" sheets.
6. Remove all existing pavement where selected material is shown.
7. Locations of transitions to Type C₁ curb are shown on the "Plan and Profile" sheet. Details of transitions are shown on "Miscellaneous Roadway Details" sheet.
8. Double metal beam barrier right of "N" Station 284+00 to 292+50 is at the center line of median.



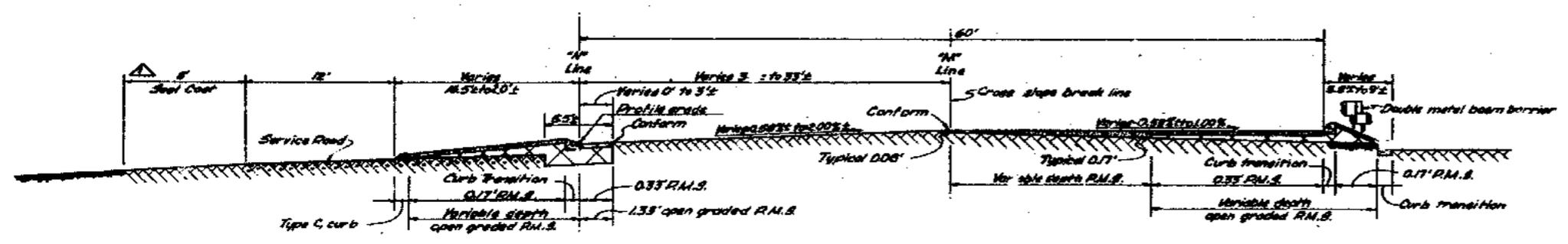
"N" STA 286+25 TO "N" STA 288+00
ON LEFT



"N" STA 291+00 TO "N" STA 292+50
ON RIGHT



"N" STA 286+25 TO "N" STA 290+10



"N" STA 284+00 TO "N" STA 286+25

LEGEND

- Subgrade line or new cut
- Open graded plant-mixed surfacing
- Plant-mixed surfacing
- Existing ground
- Existing bituminous pavement or shoulder
- Existing concrete pavement
- Selected material



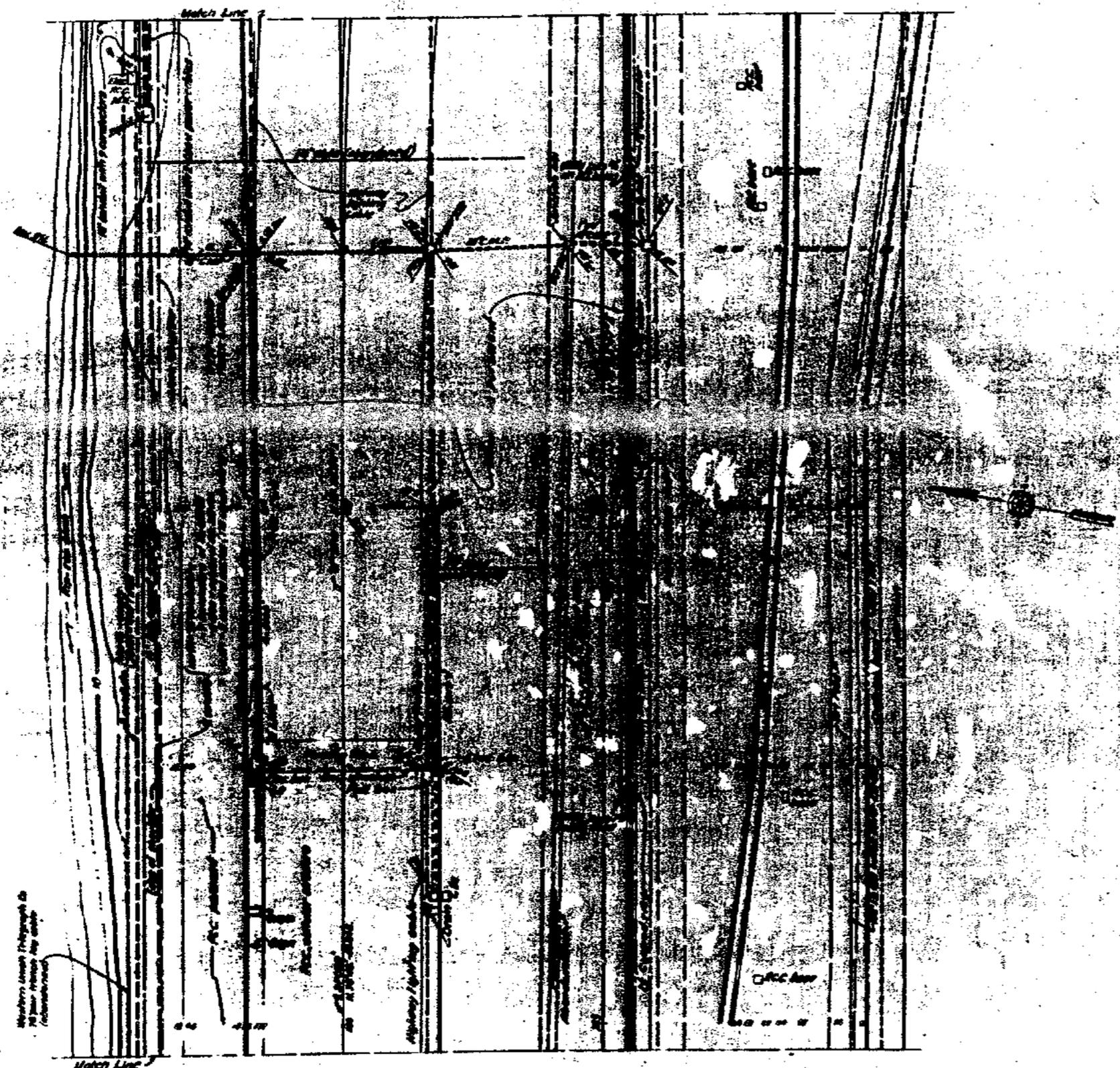
MARK	DATE	DESCRIPTION	BY	CHK
△	2.1.63	As built with revisions	J.L.S.	B.M.Z.
		REVISION		

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

TYPICAL ROADWAY SECTIONS - "N" STA. 284 TO 293

SCALE 1" = 5' - 0"
BRIDGE 34-04
SHEET NO. 33
DRAWING C 4033-33A



Vertical Curve
 10' Rise
 10' Run
 10' Rise
 10' Run



STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TRAFFIC COMMISSION

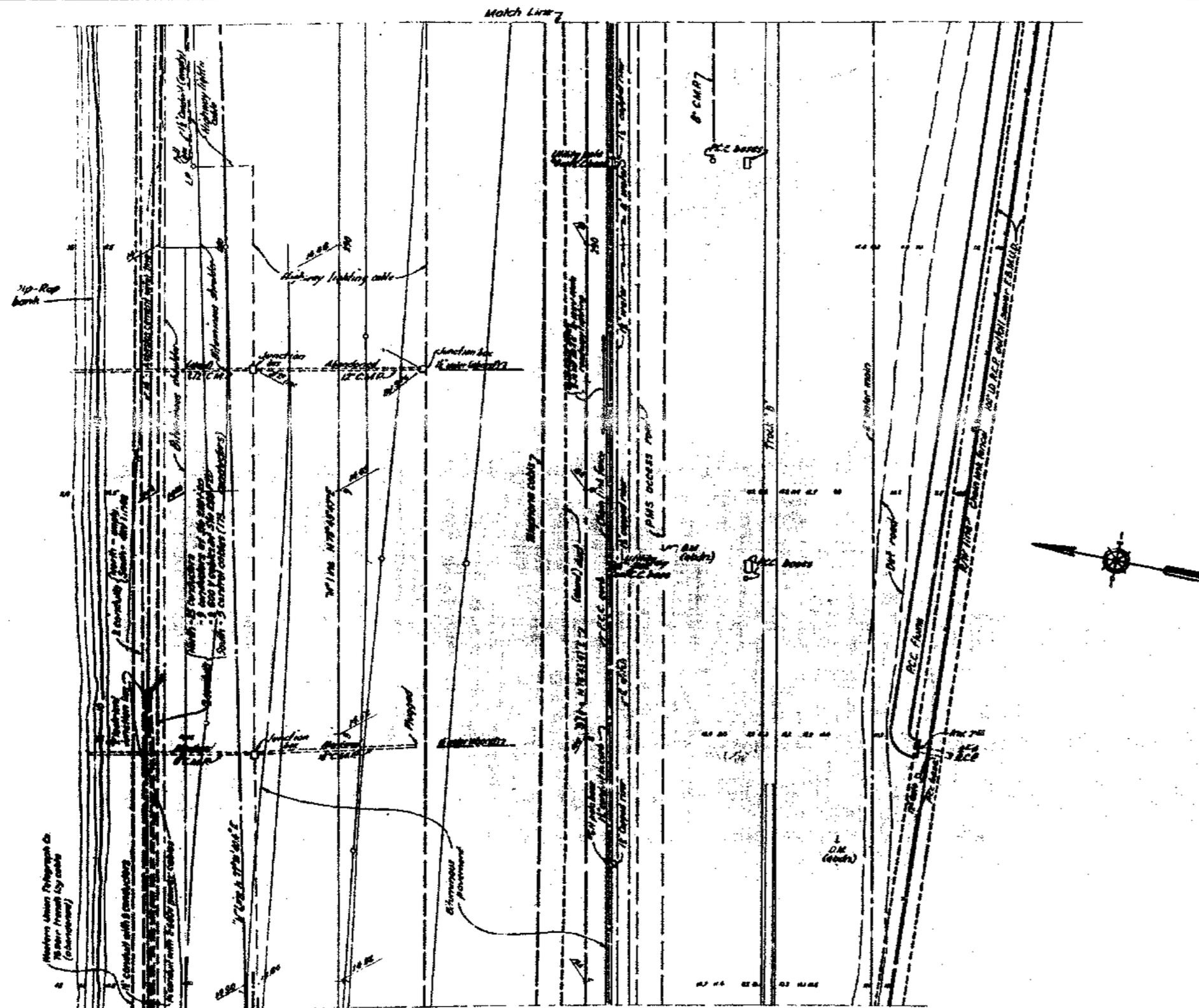
**SAN FRANCISCO-OAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING**

TOPOGRAPHY - STA. 283 TO STA. 287

SCALE 1" = 20'

DATE 11-63
 SHEET No. 34
 DRAWING C-4033-34A

MARK	DATE	DESCRIPTION	BY	CHK
		As built without revisions	J.L.S.	CHK
		REVISION		



STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
OFFICE OF SAN FRANCISCO BAY TOLL CROSSING

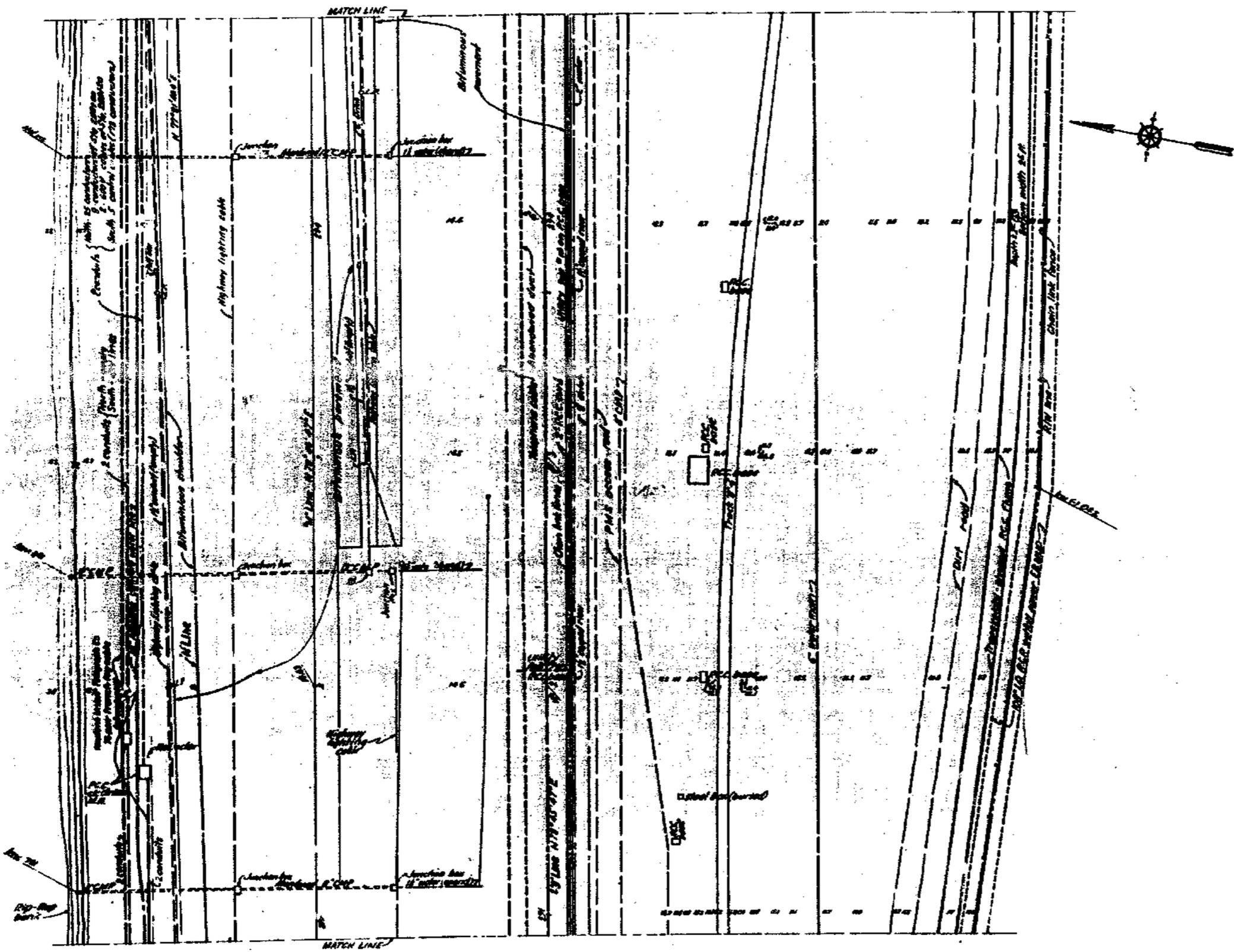
**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

TOPOGRAPHY - STA. 287 TO STA. 291

SCALE 1" = 20'

BRIDGE 34-04 SHEET No. 35 DRAWING C4D33-35R

MARK	DATE	DESCRIPTION	BY	CHK.
▲	9-24-62	As built without revision.	cfc	EMK
		REVISION		



SHRINE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROWNSHIP

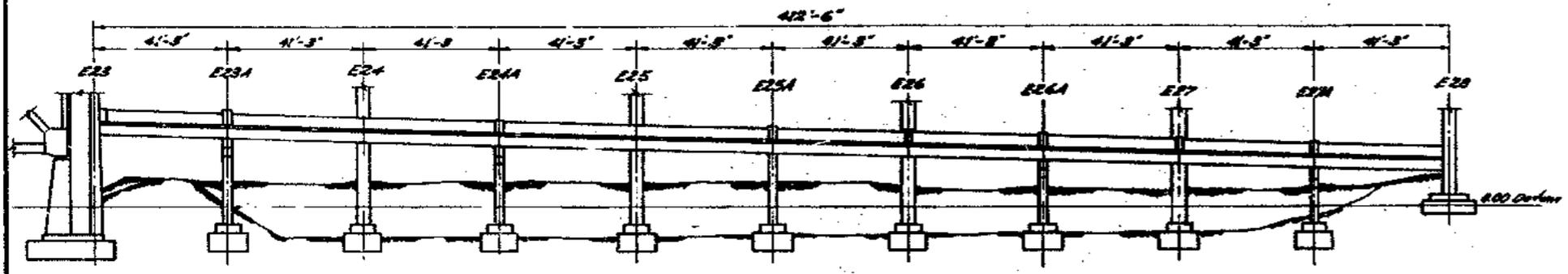
**SAN FRANCISCO-OAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING**

TOPOGRAPHY - STA. 291 TO STA. 295

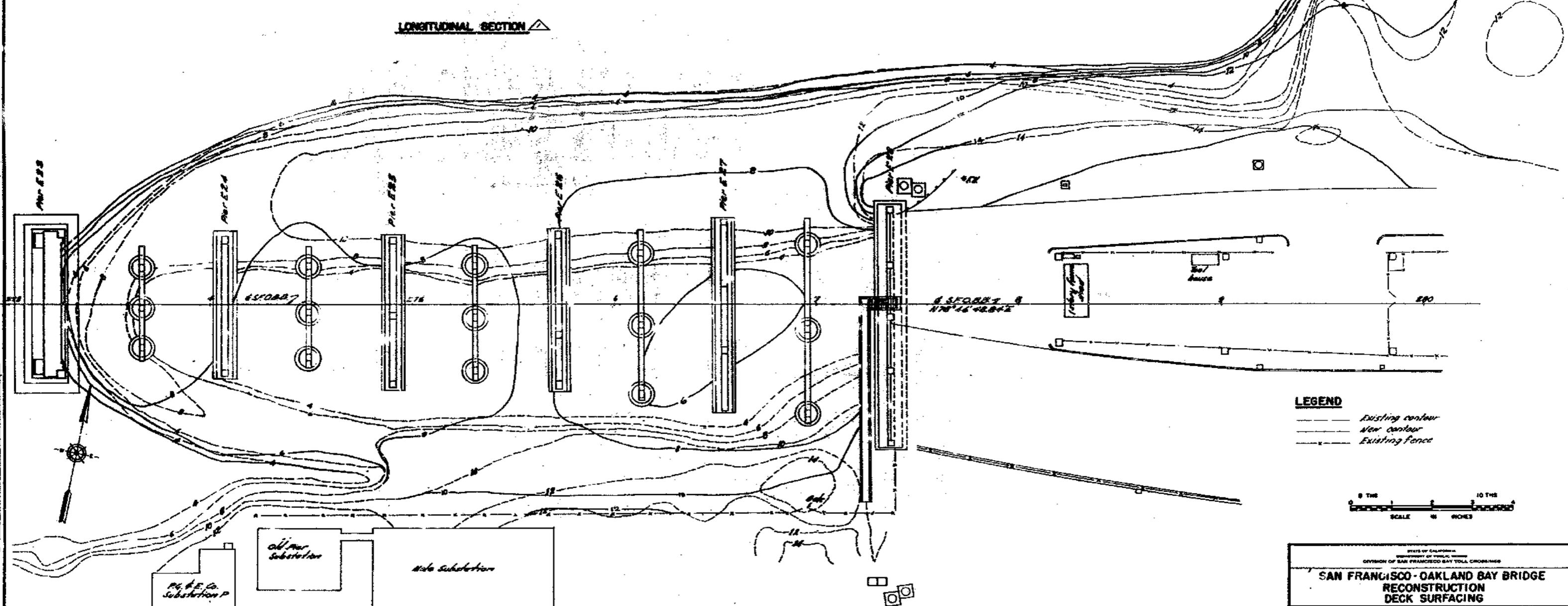
MARK	DATE	DESCRIPTION	BY	CHK.
		REVISION		

SCALE 1"=20'
 BRIDGE 34-04
 SHEET NO. 36
 DRAWING C-4033-36F

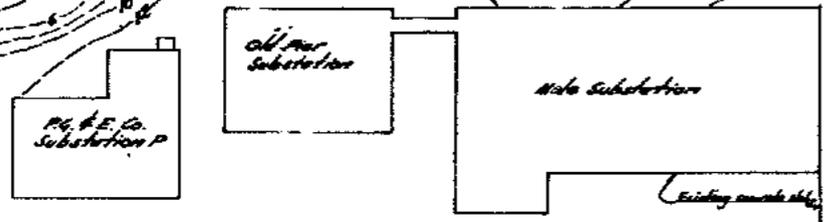
9-1-68	As built without revision.	etc	EMK



LONGITUDINAL SECTION



LEGEND
 - - - Existing contour
 — New contour
 - - - Existing fence



PLAN

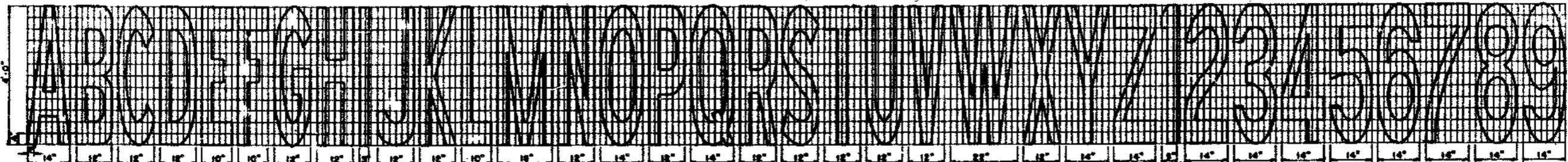
As built with revisions	U.C.	DATE
DESCRIPTION	BY	CHECKED
REVISION		

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO - OAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING**

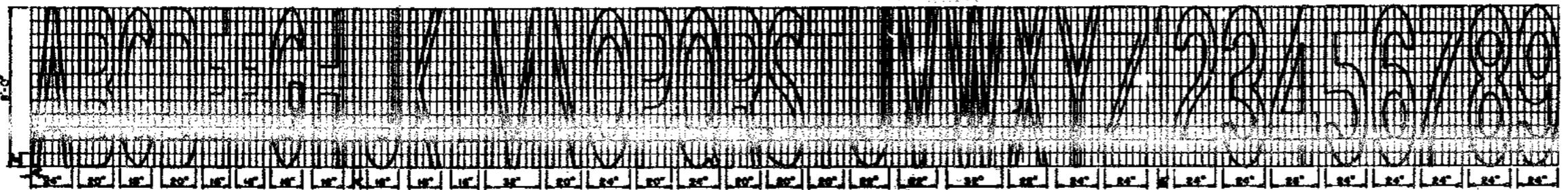
REGRAIDING PLAN-E 23 TO E 28

SCALE: 1" = 20'
 BRIDGE 34-04
 SHEET No. 37
 DRAWING C-403-37R



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

① To determine lateral spacing for 4' letters or numerals divide the spacing dimensions given in the table by 2.
② To determine the equivalent length, in linear feet of 4' continuous traffic stripes, for any given letter, numeral or arrow divide the area shown in the table by 48.



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

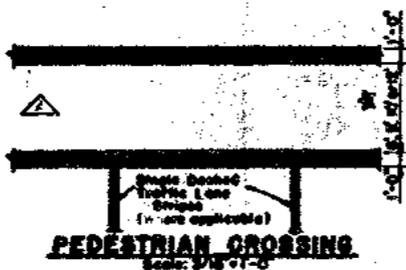
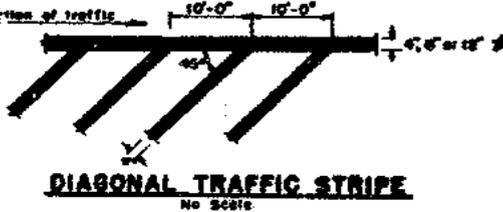
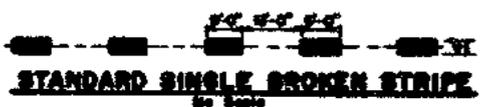
LATERAL SPACING AND AREAS OF PAYEMENT MARKINGS

LETTER OR NUMERAL	LATERAL SPACING FOR 4' LETTERS OR NUMERALS (INCHES)																									
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
AREA (sq. ft.)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
AREA (sq. in.)	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400	14400

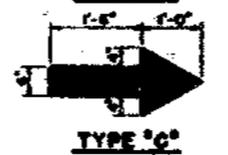
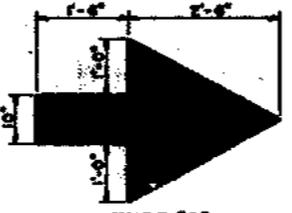
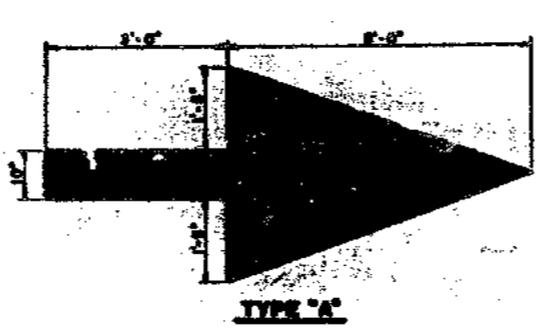
PAYEMENT	TYPE	AREA (sq. in.)	TYPE	AREA (sq. in.)
A	A	1680	D	2049
B	B	630		
C	C	192		

NOTES

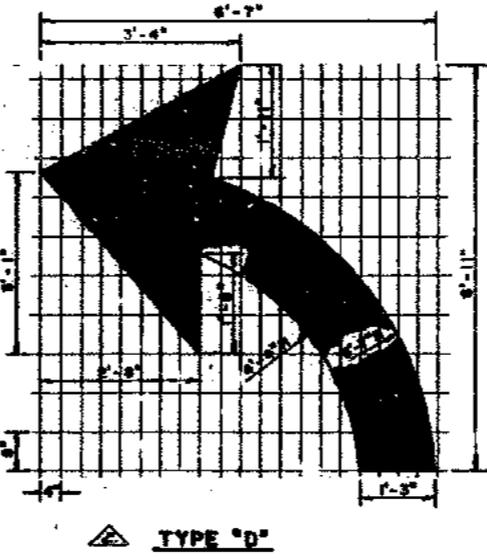
All traffic stripes and pavement markings are to be white unless specifically noted to be yellow on this sheet or unless noted otherwise on the signing and striping layout sheets.
 * Use smallest dimension unless indicated otherwise on the signing and striping layout sheet.
 Where more than one word is used consecutively on the pavement the longitudinal spacing between the top of one word and the bottom of the next word shall be as follows - 30' for "SIGNAL AHEAD" and "STOP AHEAD"; 15' for all other words using 8' letters; 4' for all words using 4' letters. These rules apply unless noted otherwise on the signing and striping layout sheets.



STOP BAR
Scale: 3/16" = 1'-0"
3/8" = 1'-0"



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



TYPE "D"

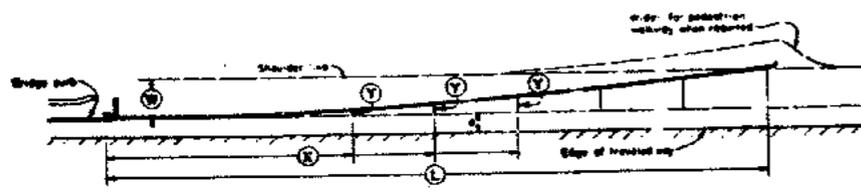
MARKING	DESCRIPTION	BY	CHK
1-154	As built without revision.	WMC	WMC
5-170	Added Type D pavement arrows	WMC	R.M.
5-150	Color of pedestrian crossing stripe changed.	WMC	MES

SUPPLEMENTAL CONTRACT DRAWING

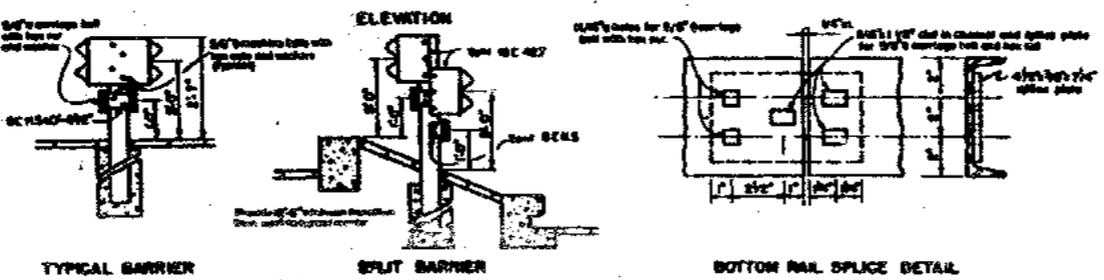
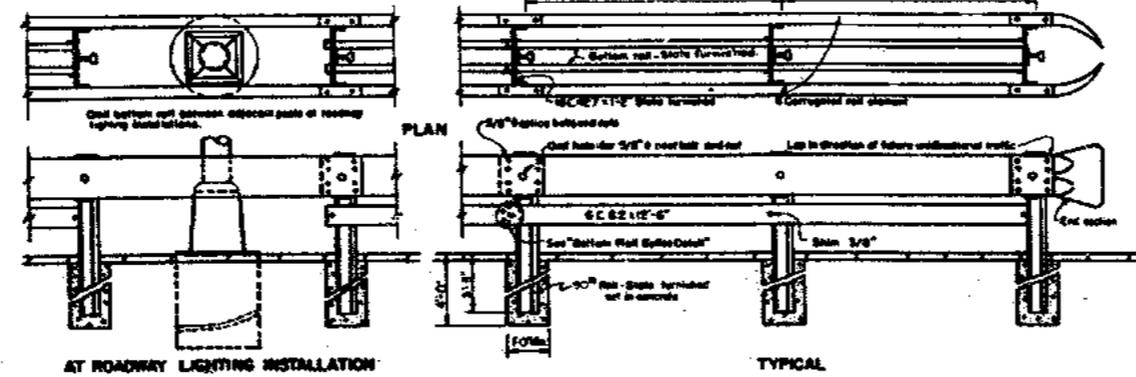
SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING

STANDARD TRAFFIC STRIPES AND MARKINGS

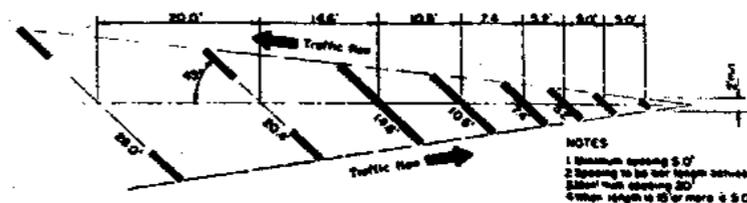
SCALE AS SHOWN SHEET No. 38 DRAWING C 4033-30



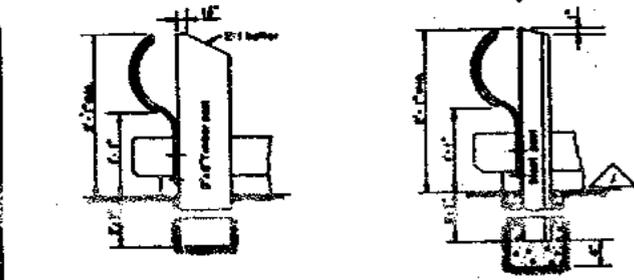
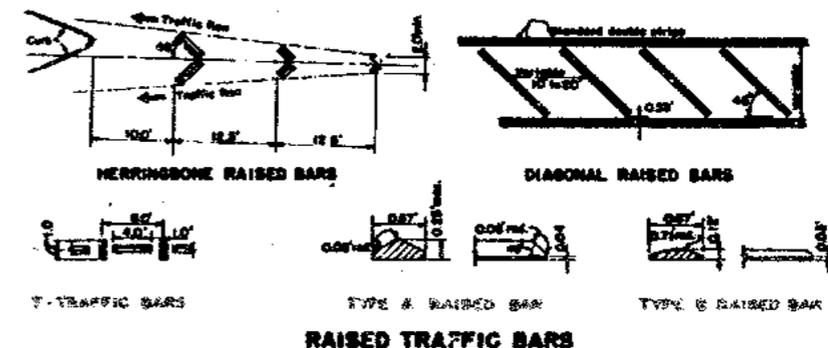
FLARE LAYOUT
 $Y = \frac{L}{S}$
 Y = Offset from bridge curb to edge of shoulder
 L = Length of guard rail
 S = Distance from beginning of guard rail on bridge
 T = Offset from edge of pavement
 T = Offset from tapered way to gutter end of bridge curb face



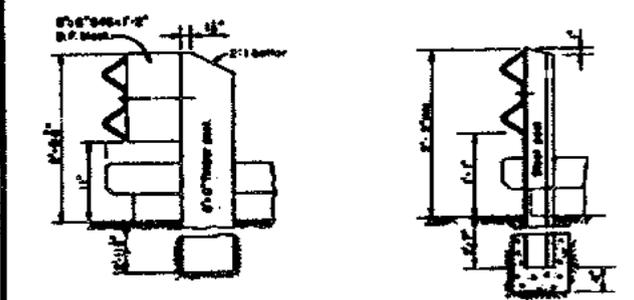
- NOTES:**
1. Making shall be retained to posts as per manufacturer's instruction.
 2. Face of guard rail shall coincide with outer edge of pavement, offset from edge of pavement, or edge of shoulder.
 3. Splice posts shall be a minimum of 90 second rail or equivalent section.
 4. Splice post shall be positioned to offset channel hole and filled with steel 2" RCC. Minimum aggregate.
 5. All timber shall be S&S Douglas Fir.
 6. Paint shall be white after erection.



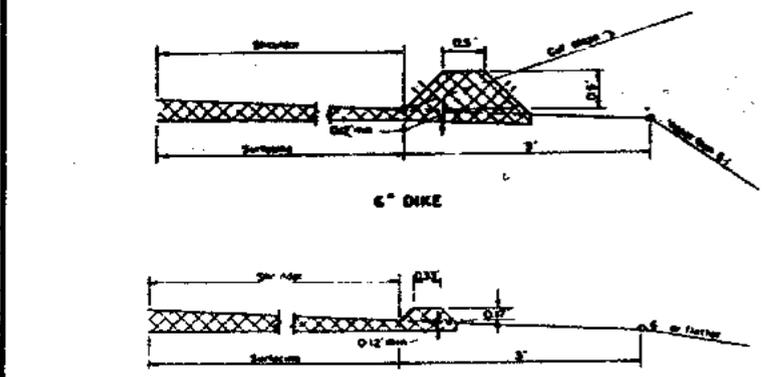
- NOTES:**
1. Minimum spacing 5' 0"
 2. Spacing to be not less than 5' and 20' spacing
 3. Bar with spacing 20'
 4. When length is 10' or more a 5' bar shall be used at each end



METAL PLATE GUARD RAILING



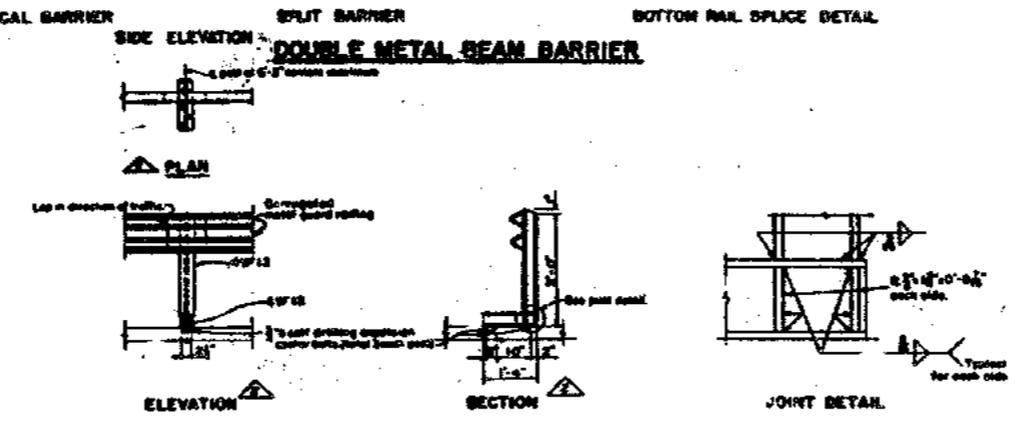
CORRUGATED METAL GUARD RAILING
GUARD RAILING



6" DIKE

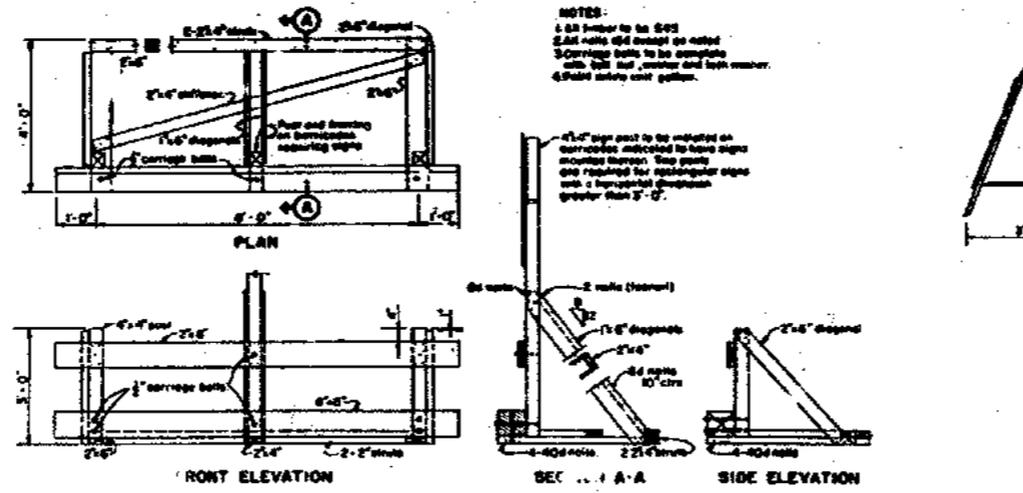
2" DIKE

BITUMINOUS DIKES

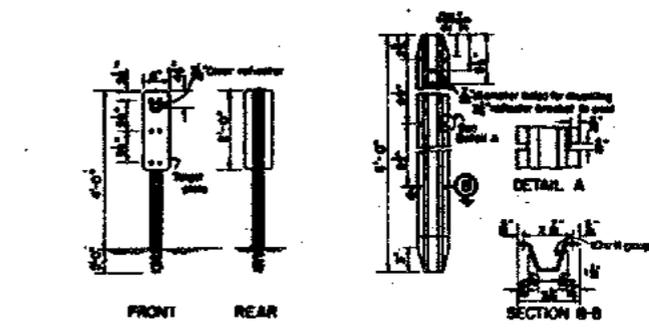


DOUBLE METAL BEAM BARRIER

STATE FURNISHED GUARD RAILING



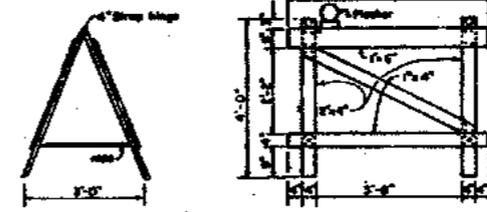
TIMBER BARRIAGE



GUIDE MARKERS

METAL MARKER POST

Type	REFLECTORS		
	Color	Front	Back
A	-	None	None
E	Clear	1-3 1/2"	1-3 1/2"
F	Clear	1-3 1/2"	None
G	Yellow	2-3 1/2"	None
H	Yellow	2-3 1/2"	None
I	Yellow	2-3 1/2"	1-3 1/2"



TIMBER BARRIERS



SUPPLEMENTAL CONTRACT DRAWING

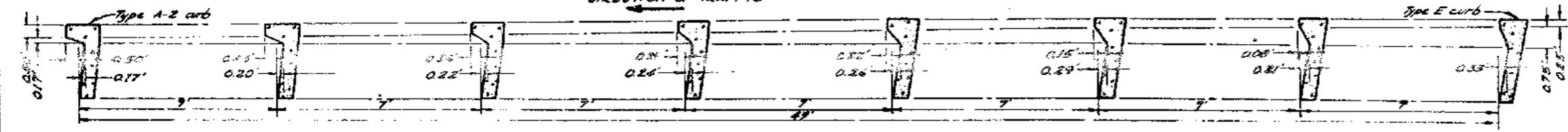
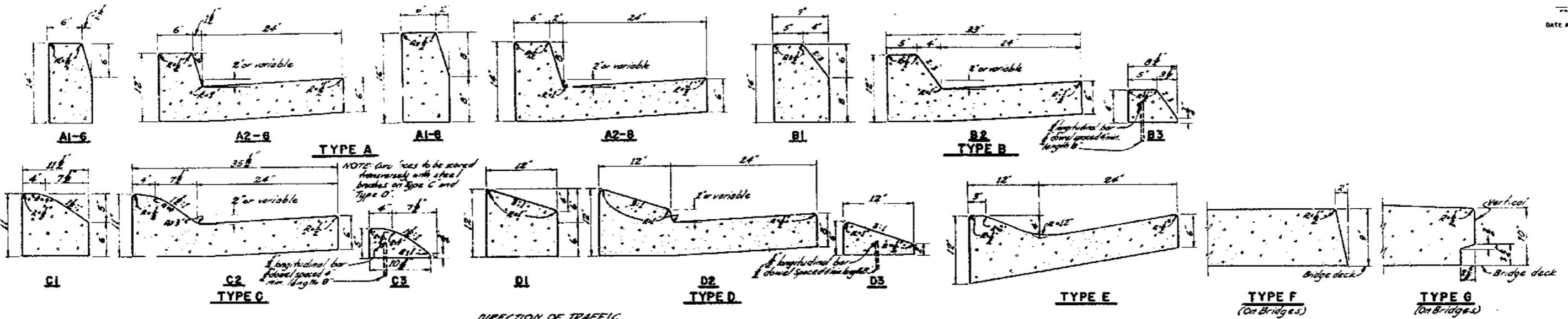
STATE OF CALIFORNIA
 DEPARTMENT OF HIGHWAYS
 DIVISION OF SAN FRANCISCO BAY AREA DIVISION

**SAN FRANCISCO-OAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING**

STANDARD TRAFFIC CONTROL BARRIERS

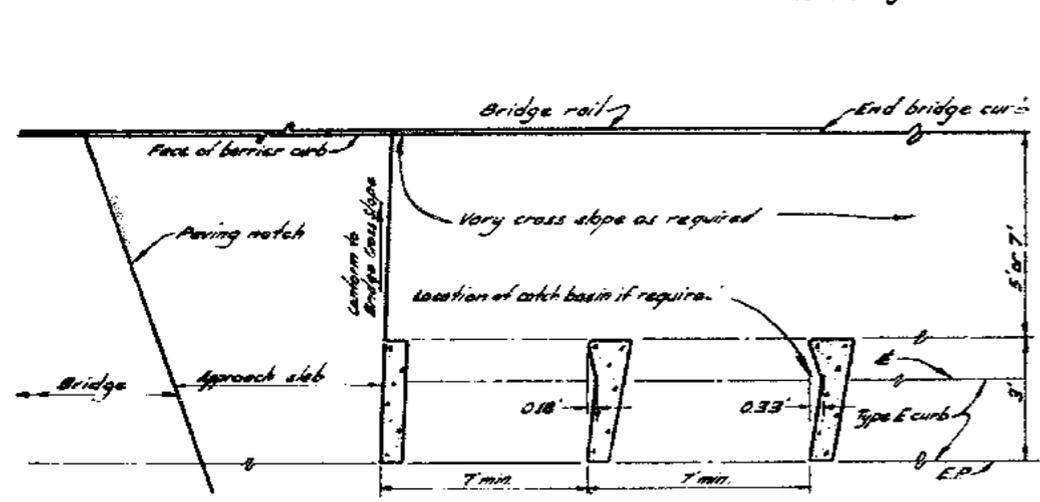
SCALE NONE BRIDGE SHEET No. 39 DRAWING C-4033-30P

MARK	DATE	DESCRIPTION	BY	CHK.
1-164		As built with revisions	cfc	PRL
1-176		Guide marker table added. Guard railing note added.	WOC	WRS
		REVISION		

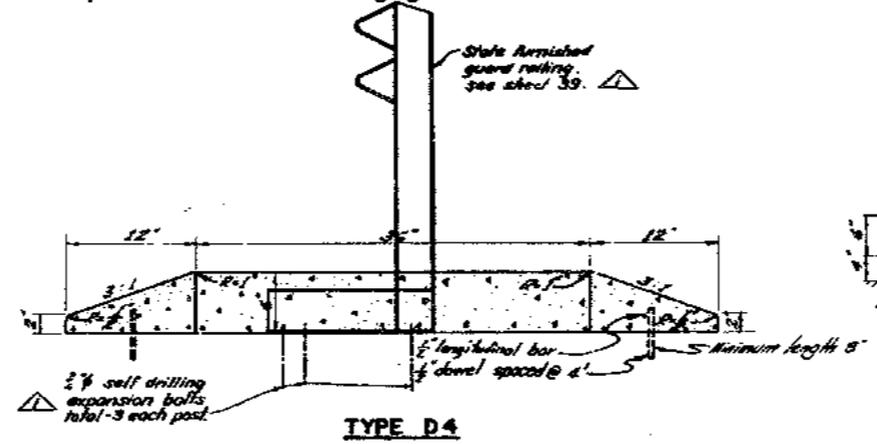


STANDARD CURB TRANSITION TYPE E TO TYPE A 2
 NOTE: Straight line transition in flow line and type of curb unless otherwise noted by Engineer.

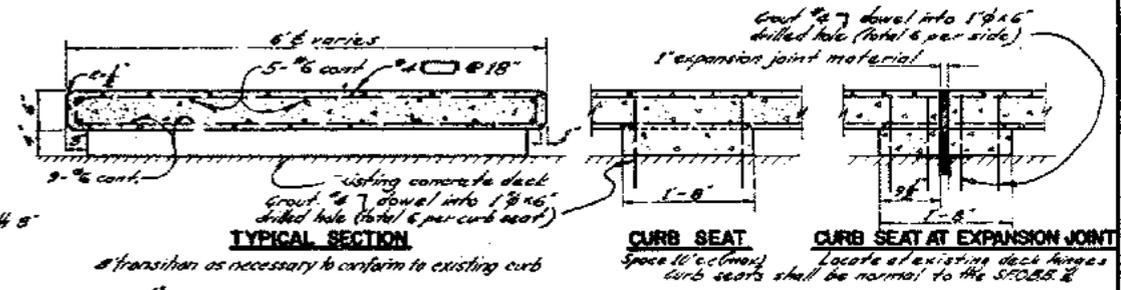
CURB QUANTITIES			
TYPE	CY	LI	LI
A1-6	0.02585	C1	0.02752
A2-6	0.05903	C2	0.06457
A1-8	0.03084	C3	0.00965
A2-8	0.06379	D1	0.03073
B1	0.02930	D2	0.06782
B2	0.06171	D3	0.02223
B3	0.01074	E	0.06561
		Z1	0.04251
		Z2	0.05908
		Z3	0.01042



FLOW LINE TRANSITION-TYPE E AT STRUCTURE



TYPE D4

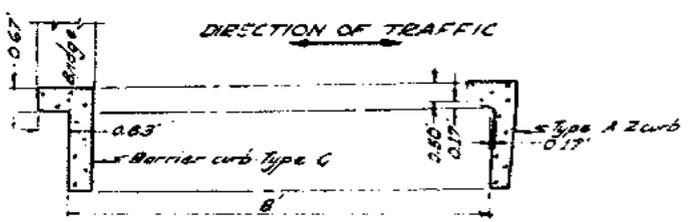


TYPICAL SECTION

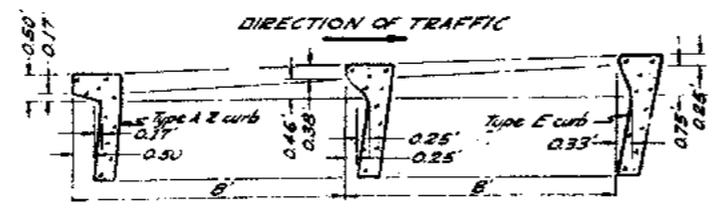
CURB SEAT

CURB SEAT AT EXPANSION JOINT

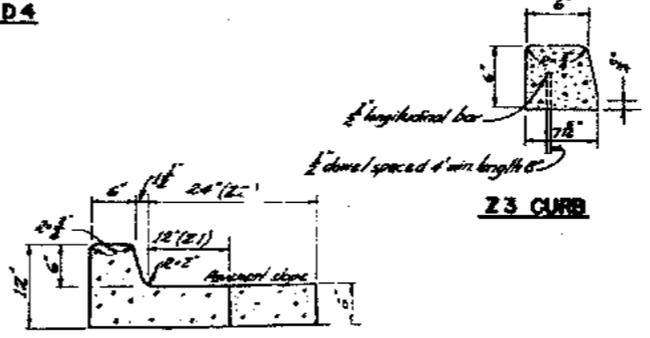
MEDIAN CURB AT S.F.O.B.B. STA. 18+42 TO 19+12
 For curb alignment see sheet 7



CURB TRANSITION-TYPE A2 TO TYPE G



CURB TRANSITION-TYPE A2 TO TYPE E
 (See Note for transition Type E to Type A2)



TYPE Z1 & Z2 P.C.C. CURB & GUTTER

MARK	DATE	DESCRIPTION	BY	CHK.
9-1-64		As built with revisions	cfk	EMM



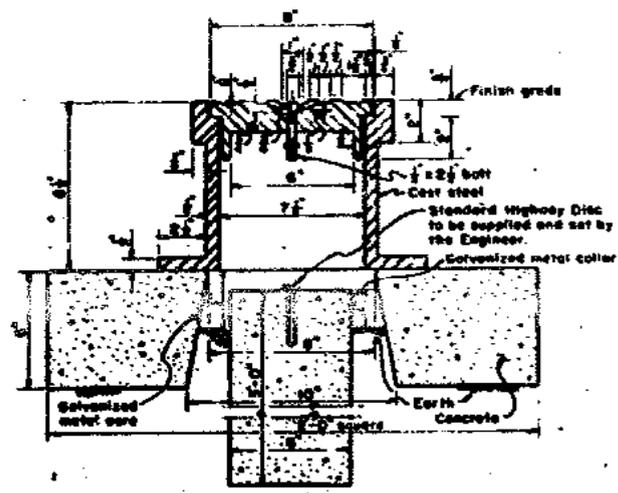
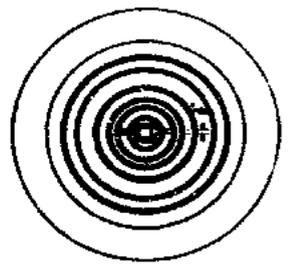
STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CRYSTICE

**SAN FRANCISCO-OAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING**

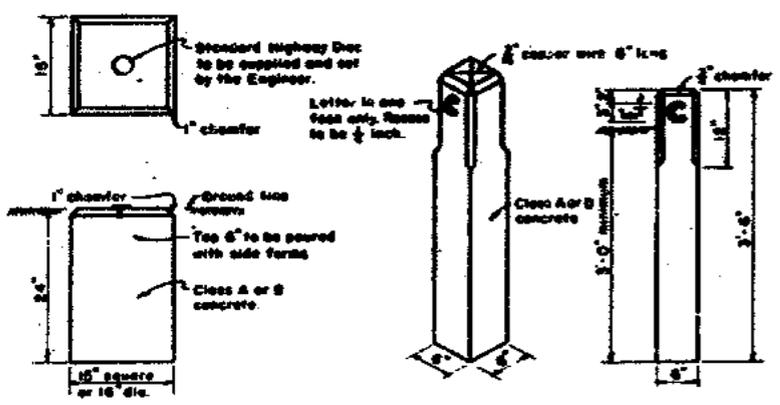
STANDARD CURBS

33-25	SHEET NO 40	DRAWING: 4033-40R
34-03		
34-04		

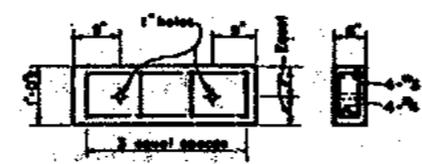
SCALE: NONE BRIDGE



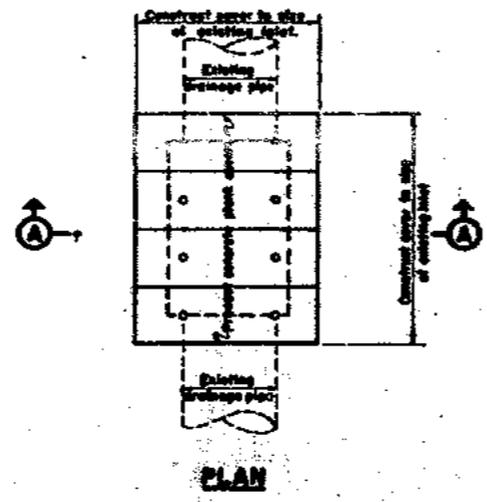
SURVEY MONUMENT
 Scale: 3" = 1'-0"



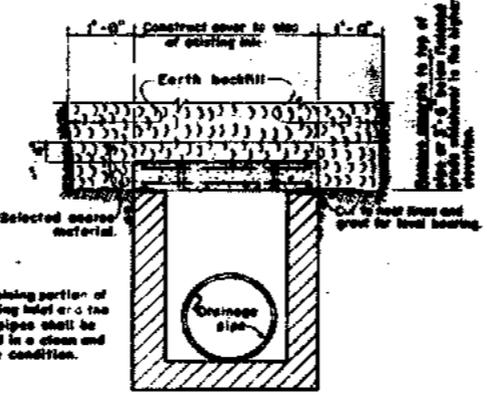
CENTER LINE MONUMENT Scale: 1" = 1'-0"
R/W AND FREEWAY ACCESS MONUMENTS Scale: 1" = 1'-0"



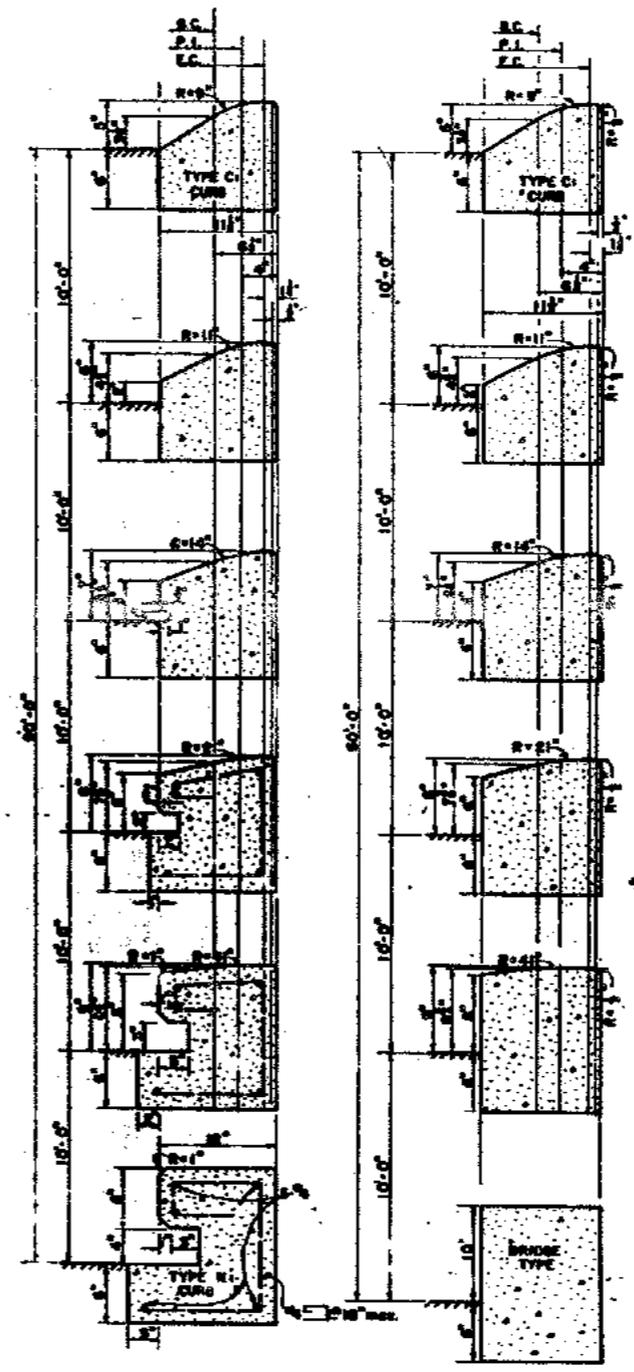
DETAIL OF COVER PLANK



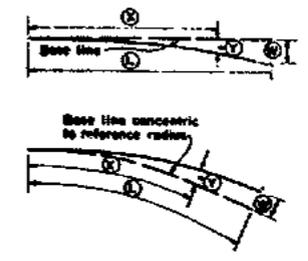
PLAN



SECTION A-A
TYPICAL DETAILS FOR CONVERTING EXISTING DRAINAGE INLET TO JUNCTION BOX
 Scale: 1/2" = 1'-0"



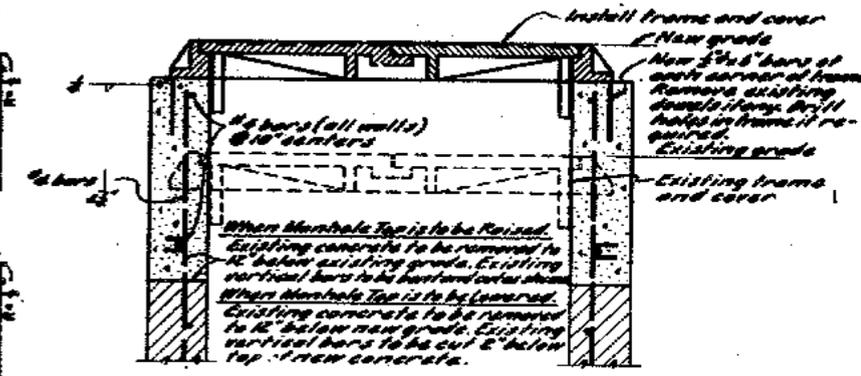
CURB TRANSITION TYPE "N" TO TYPE "C" Scale: 1/2" = 1'-0"
CURB TRANSITION BRIDGE TYPE TO TYPE "C" Scale: 1/2" = 1'-0"



Offset in feet for given "x" distance

Offset	10	15	20	25	30	40	45	50	60	70	75	80	90	100	110	120
1:5 FLARES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1:3 FLARES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1:2 FLARES	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

PARABOLIC CURB FLARES



RAISING OR LOWERING OF EXISTING TYPE "B.W" MANHOLE TO GRADE
 (Drawing shows for raising top only)
 Scale: 1/2" = 1'-0"



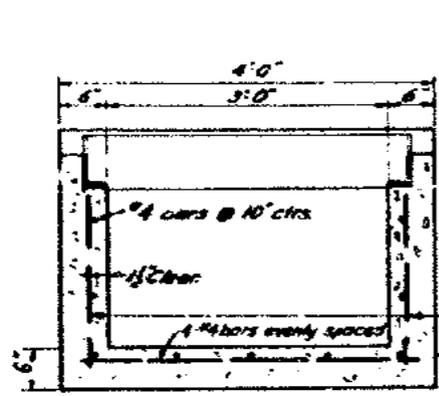
AS BUILT WITHOUT REVISION	BY	CHK
DATE	DESCRIPTION	REVISION

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

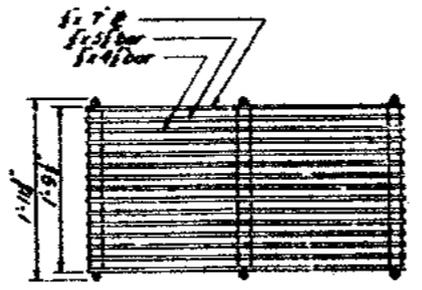
SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION DECK SURFACING

MISCELLANEOUS ROADWAY DETAILS

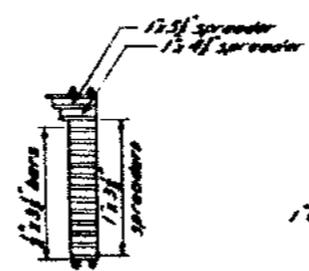
SCALE AS SHOWN BRIDGE 34-04 SHEET No. 41 DRAWING C 4033-41F



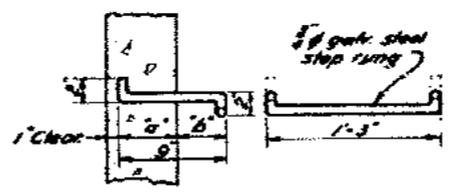
SECTION D-D



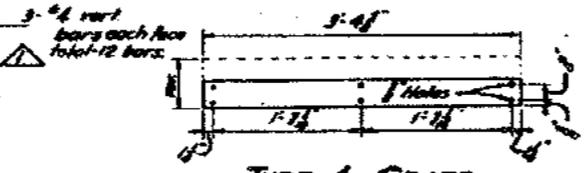
TYPE 4 GRATE
Scale: 1"=1'-0"



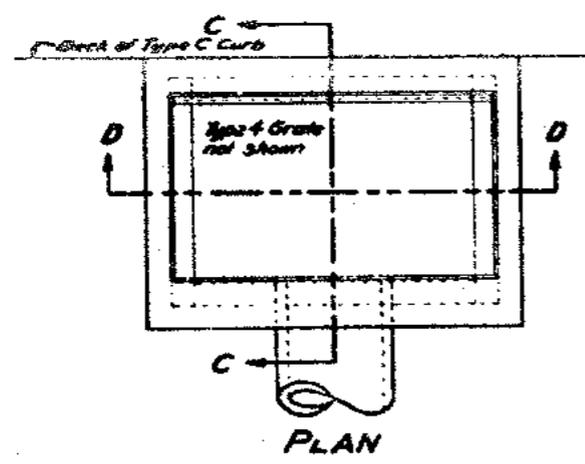
Where required decrease "a" and increase "b" by the same amount to maintain 1" clearance.



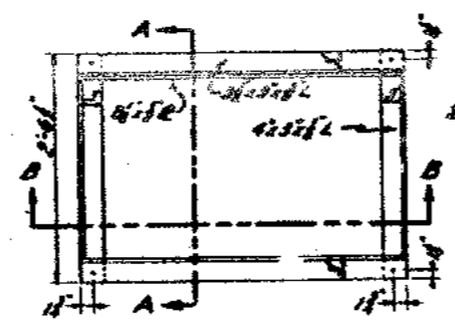
STEP RUNG DETAIL
Scale: 1/2"=1'-0"



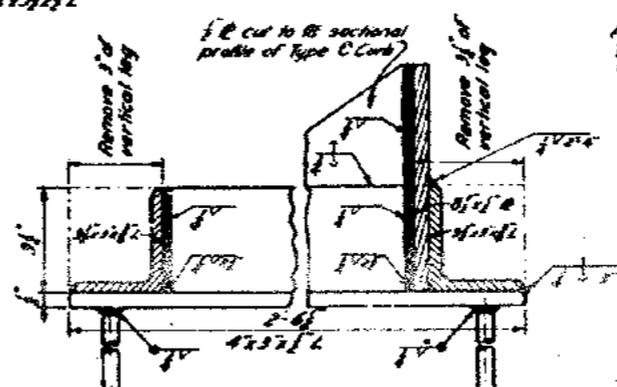
SECTION B-B
TYPE 4 FRAME
Scale: 1"=1'-0"



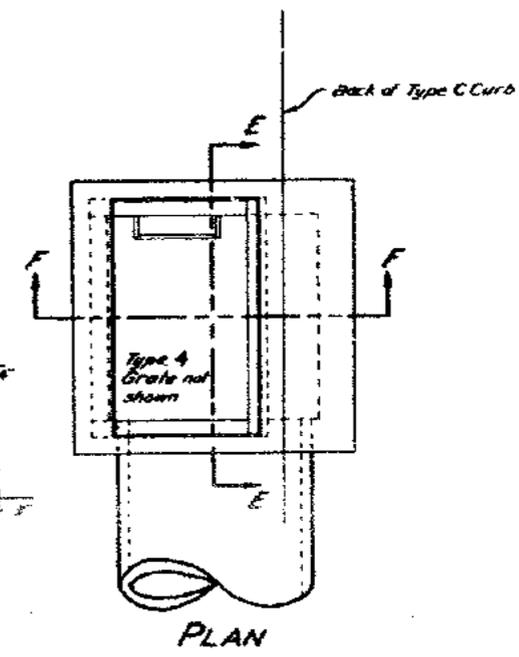
PLAN



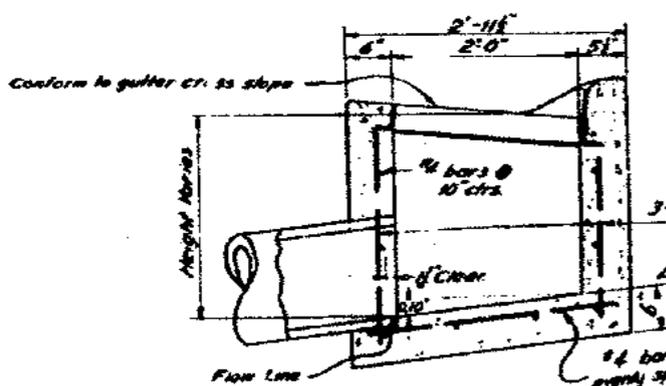
SECTION A-A



DETAIL OF FRAME
Scale: 1/2"=1'-0"

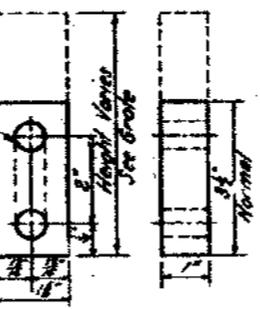


PLAN

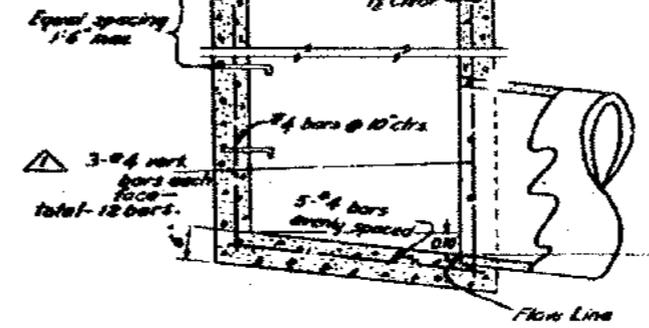


SECTION C-C
TYPE "H₂" INLET
Scale: 1"=1'-0"

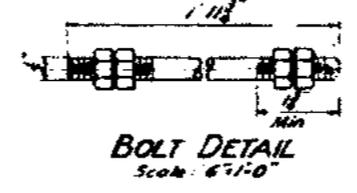
- Notes:
- Types H₂ & H₃ Inlets are designed to fit standard Type C Curbs.
 - Use Type 4 Frame & Type 4 Grate for all Types H₂ & H₃ Inlets.
 - Where H < 3'-6" use Type H₂ Inlet.
 - Where H < 3'-6" step rungs shall be omitted.
 - All miscellaneous iron & steel to be galvanized after fabrication.



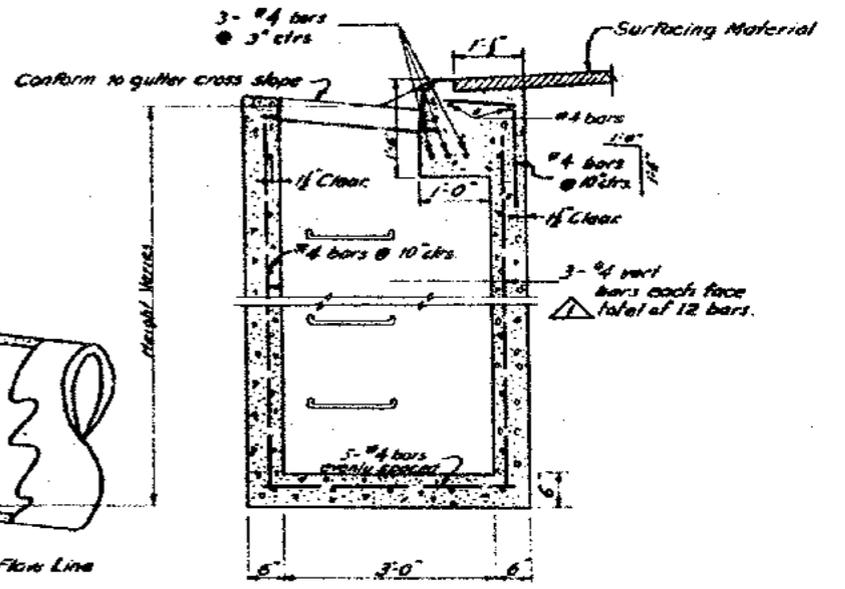
SPREADER
Cast Iron
Scale: 6"=1'-0"



SECTION E-E
TYPE "H₂" INLET
Scale: 3/4"=1'-0"



BOLT DETAIL
Scale: 6"=1'-0"

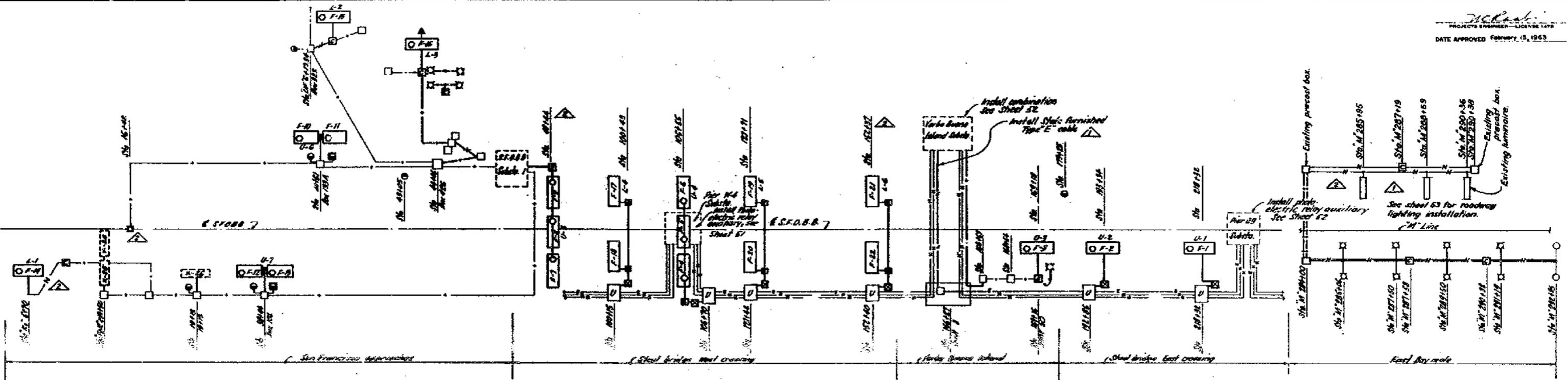


SECTION F-F



STATE OF CALIFORNIA DIVISION OF HIGHWAYS SAN FRANCISCO - OAKLAND BAY BRIDGE RECONSTRUCTION DECK SURFACING	
STANDARD DROP INLET - TYPES "H ₂ " AND "H ₃ "	
MARK	DATE
DESCRIPTION	BY
REVISION	CHK
SCALE: As shown	BRIDGE: 33-25, 34-03, 34-04
SHEET NO: 42	DRAWING C 4033-42P

9-1-64	As built with revisions	chk.	CHL
		BY	GRK



LEGEND

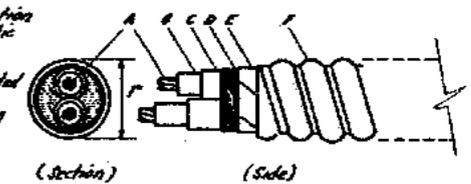
- State furnished Type E cable or wire.
- New 1/2" conduit (unless otherwise noted).
- Existing conduit and/or wires.
- Existing Type E cable.
- Existing Type N cable.
- Remove existing modern vapor luminaires installation.
- State furnished modern vapor or mercury vapor luminaire installation.
- Existing overhead externally illuminated sign to be removed.
- New overhead internally illuminated sign.
- New junction box.
- New present concrete box (State #6).
- Existing Utility Control Station on bridge platform.
- State furnished flashing beacon.
- Existing flashing beacons to be removed.
- Existing flashing beacons to remain.
- SF City 3-lens traffic signal head.
- Existing junction box.
- Sign service box.
- Sign control box.
- Conductor (normally open).
- Fuse.
- Hand off, Auto, selector switch.
- Relay coil.
- Magnetic coil (for actuator).
- White indicating light.
- Red indicating light.
- State furnished oil fuse cut-out.
- A.C.B. air circuit breaker.
- Motor.
- Timer.
- State furnished fluorescent lighting installation.

SCHEMATIC DIAGRAM
No scale

GENERAL NOTES

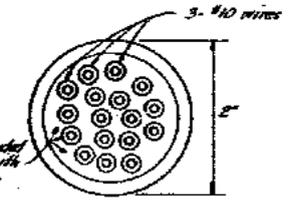
1. The major items of electrical work are:
 - (a) Installation of internally illuminated sign services
 - (b) Addition to Substation No. 1, Lower Deck, San Francisco approach
 - (c) Construction of East Bay state highway roadway lighting
 - (d) Installation of flashing beacons
 - (e) Removal of existing sign illumination facilities and alteration of existing circuits for reconstructed sign installation.
2. For additional information on use, disposal and salvage of materials see Sheets 2 and 19.
3. For detail information about internally illuminated signs, see Sheets 4, 16 and 17.
4. Use Brady B-100 aluminum foil type wire markers for identification of all newly installed or reconstructed conductors at each terminal point within low voltage service boxes, sign control boxes, substation 1, B.2, 104 and E9.
5. To distinguish between circuits on 24 hour load from sign circuits, on nights load only, add phase designations to typical markers at each terminal point of existing or new installations within SF structures and approaches areas. Furnish and install 1/4" brass tags on all conductors in flat boxes, rail pockets, cable mail box.

- A. 6 AWG 7-strands copper
- B. 105 polyethylene insulation
- C. PET outer sheath thermo-plastic jacket
- D. Treated jute fillers
- E. 2 layers of 4.01 PTC impregnated jute fabric
- F. 2.00" x .75" brass interlocking armor.



STATE FURNISHED TYPE "LT" CABLE
Full size

Existing Type E cable located on top of steel girder carries service boxes and is connected to terminals. Contractor to use only multiple runs of the #14 conductors as directed by the Engineer.



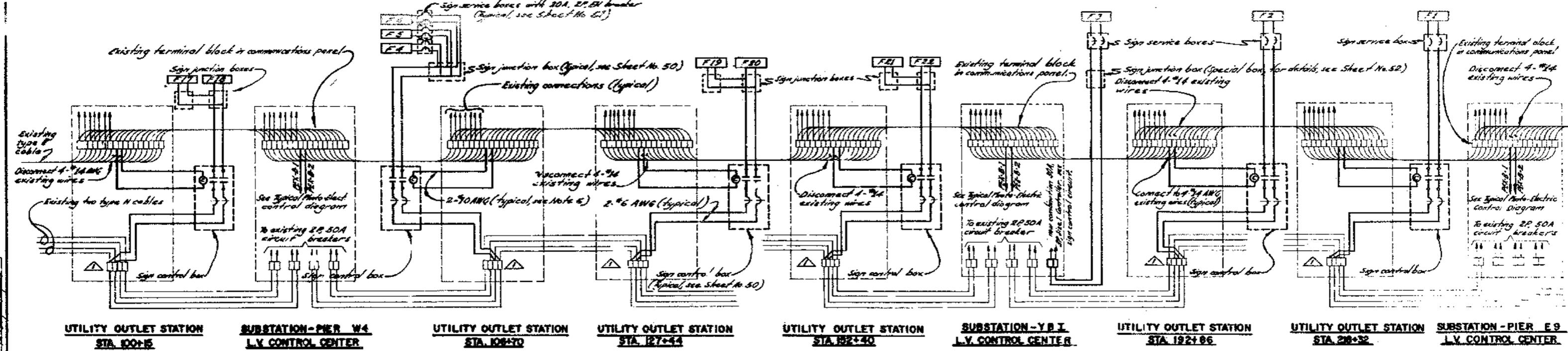
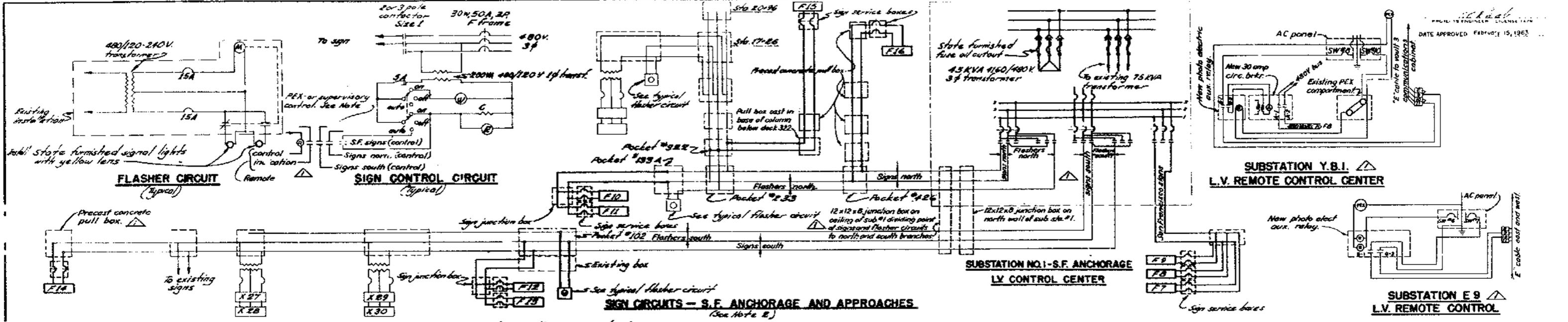
EXISTING TYPE "E" CABLE
Full size



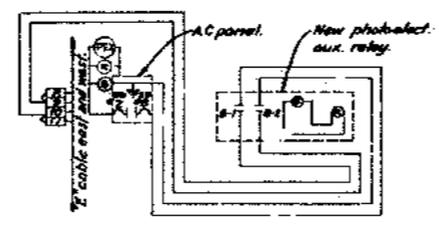
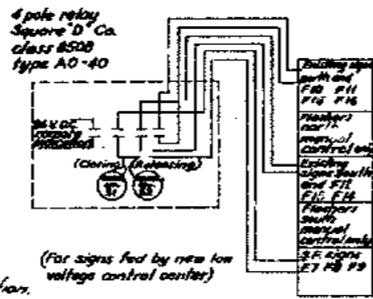
SUPPLEMENTAL CONTRACT DRAWING

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS			
SAN FRANCISCO OAKLAND BAY BRIDGE RECONSTRUCTION DECK SURFACING			
ELECTRICAL - GENERAL			
SCALE AS SHOWN	BRIDGE 34 - 04	SHEET NO. 44	DRAWING C-4033-44 R

DATE	DESCRIPTION	BY	CHK'D
01-64	As built with revisions	CFC	H.B.T.
02-63	State furnished fluorescent lighting and Type E cable added.	N.F.	N.B.T.



- NOTES**
1. For legend of symbols, see "lectures - General"
 2. Contractor shall distribute load among circuits and by phases as shown for S.F. Anchorage and Approaches.
 3. Connect existing and new flash - installations to be energized circuits. Connect existing and new sign installations to circuits energized at night.
 4. All flasher and sign circuits from substations that shall be controlled by existing supervisory control (see sheet No. 49)
 5. Control sign F3 from new auxiliary photo-electric relay PEK-3 in Y.B.I. Substation.
 6. Sign control box circuit shall use 120VAC source from Utility outlet station for local ON-OFF control. This shall be connected to remote photo-electric control.



MARK	DATE	DESCRIPTION	BY	CHK
5-1-64		As built with revisions	cf	H.B.T

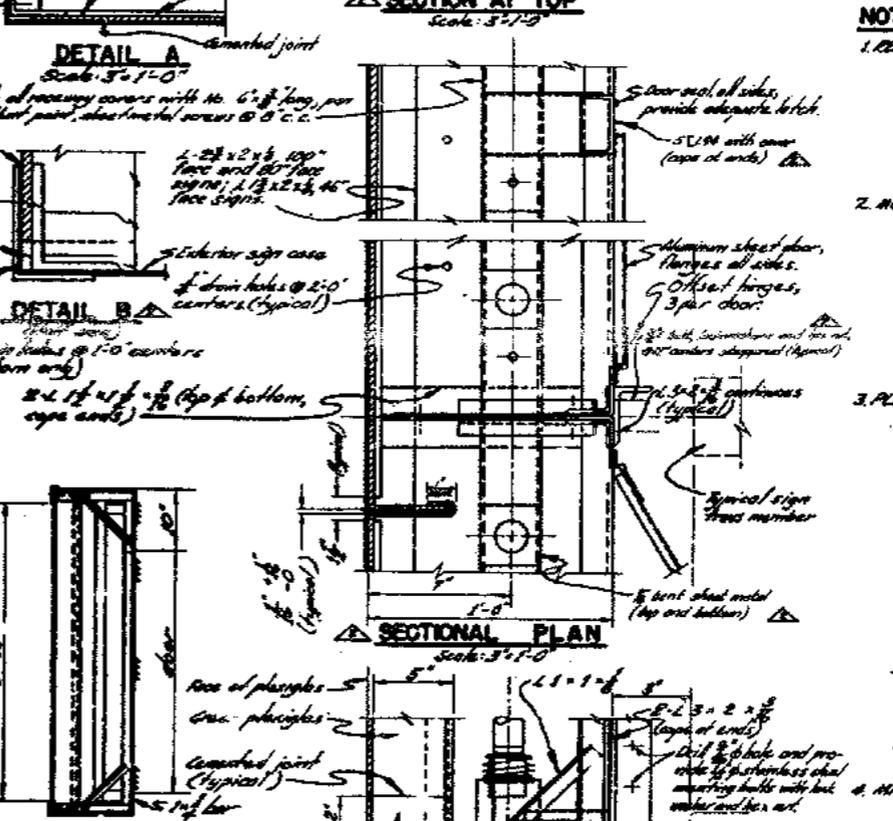
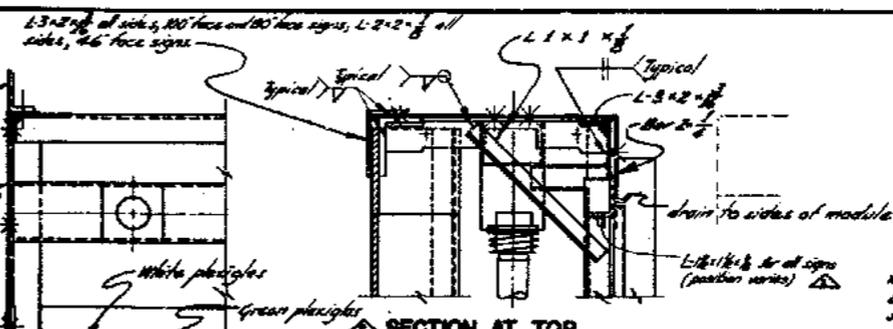
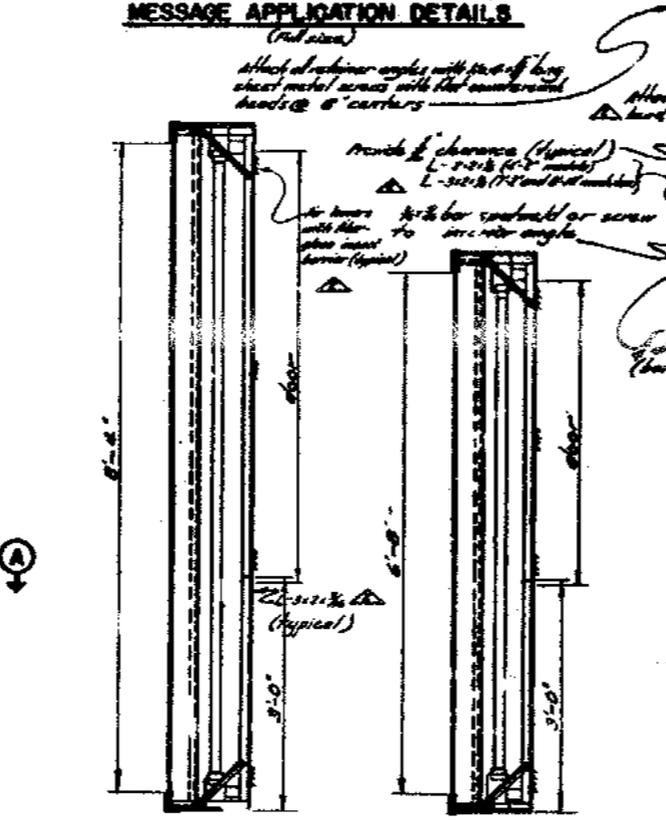
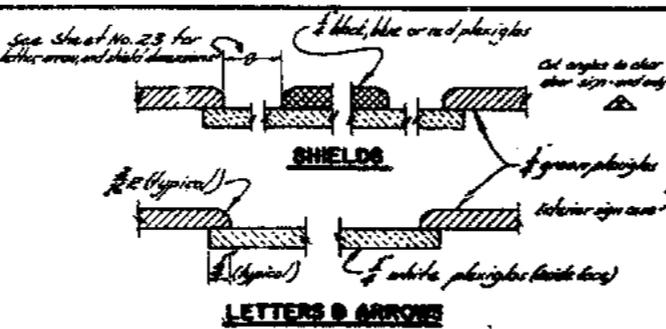
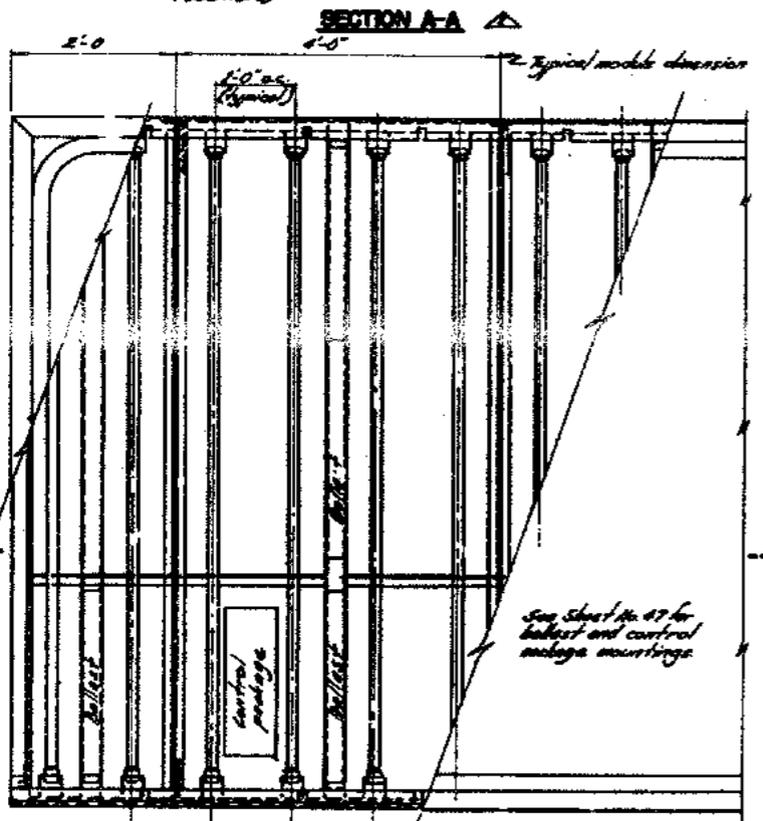
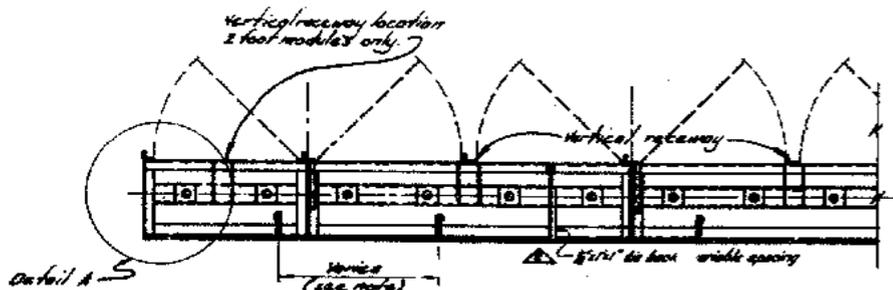
STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING**

ELECTRICAL - CIRCUIT DIAGRAMS

SCALE: NONE

BRIDGE	33-25	SHEET No. 45	DRAWING C-4033-45R
	34-03		
	34-04		

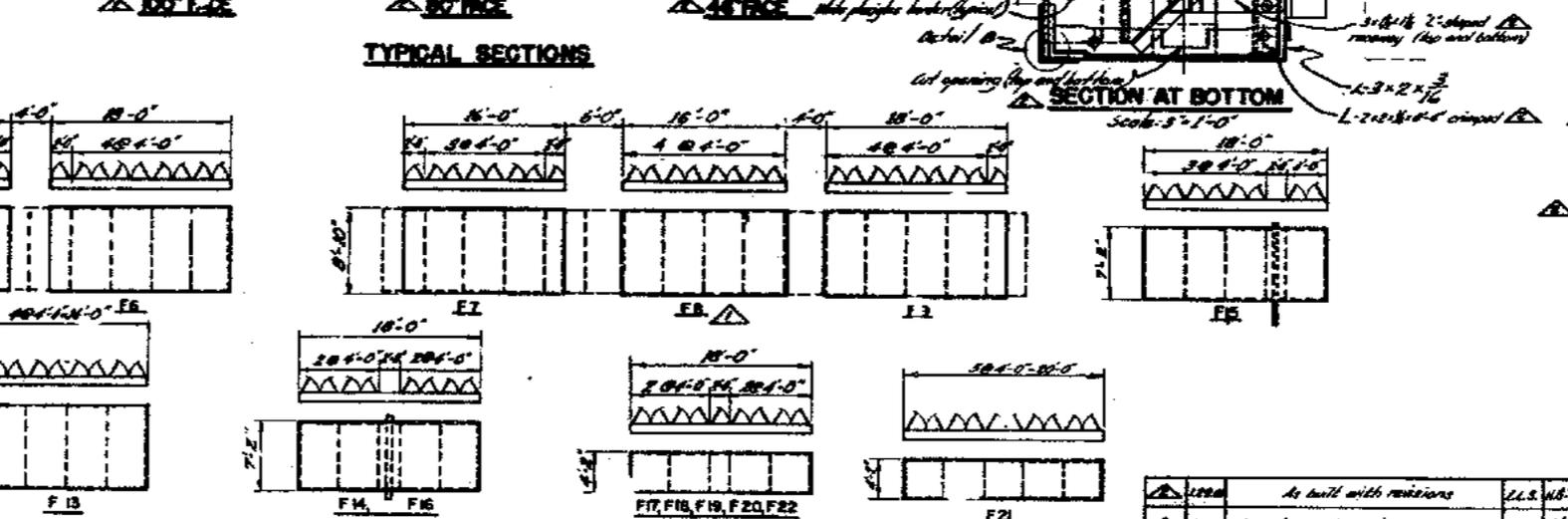
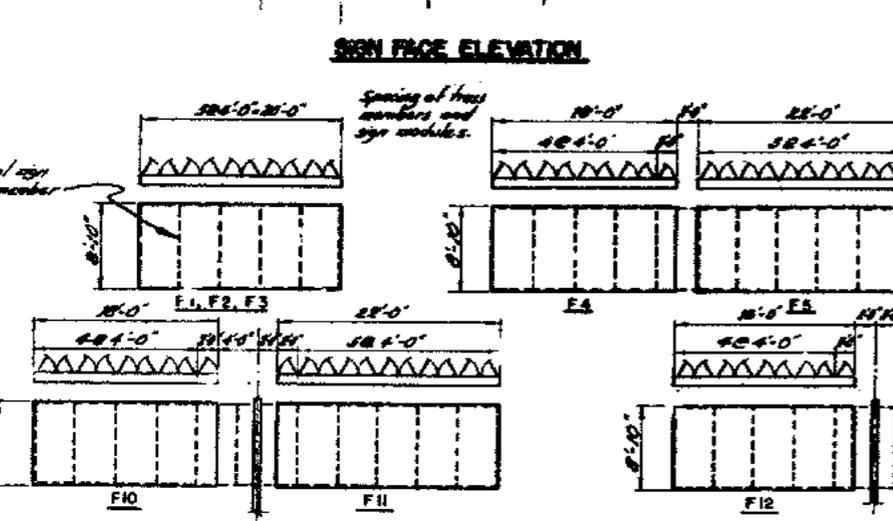


Maximum Supported Plexiglas Channel Widths

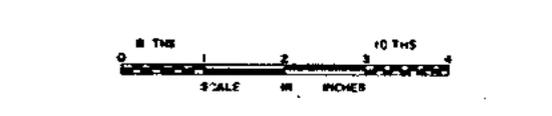
Channel Height	Maximum Width
100"	20"
80"	30"
45"	46"

Whenever these widths are exceeded, stiffeners or tie-backs, cemented to the back of the channel, shall provide stiffness to the channel equivalent to the stiffness of the channel listed above.

- NOTES**
- REFERENCES
 - Additional references pertaining to internally illuminated signs are:
 - Sheet No. 22 for sign format
 - Sheet No. 23 for sign message layout data
 - Sheet No. 26, 27, 28 for sign support trusses
 - Sheet No. 4, Bid Item No. 30 for specific information, Specifications Section 6.5 for general information. See Sheet 47 for electrical details.
 - MODULE CONSTRUCTION
 - The sign shall be assembled from standard length modules or special lengths bolted together to form a complete unit. Each module shall have its own ballast and fluorescent lamps pre-wired to form a self-contained unit.
 - The contractor shall submit to the Division's Office a complete prototype of each module with lamps, ballast, plexiglas channels, frame having rough lettering, channels and borders, and wiring for testing purposes. The prototype module and shop drawings shall be approved before beginning fabrication.
 - PLEXIGLAS SIGN FACE
 - All plexiglas for channels, letters, arrows and shields shall be 1/2" thick. Plexiglas color shall be Alkon and thus Marginal, White 7320, Green 2280 with white face F-12, Blue 2050, Red 2224 and Black 2225.
 - Message application and borders shall be cemented by an approved method to provide maximum joint strength and good weather resistance. Plexiglas channels shall be cemented by an approved method after all cementing has been completed.
 - Widths of plexiglas channels shall be varied to avoid intersection of letters, arrows, or shields to prevent a sharp intersection of shadows.
 - Minimum edge engagement of plexiglas channels with interior angles shall be 2/8" of sign height at top and bottom and 1/4" of sign width at each side.
 - Provide space for expansion of plexiglas channels (D) at top of sign equal to 1/8" per foot of sign height (E) at each side of sign equal to 1/8" per foot of sign width minus 1/8" times the number of channels from the midpoint of the sign to the edge.
 - Block channel return nearest midpoint of sign to limit lateral moment of sign face.
 - MATERIALS
 - Structural shapes and extrusions shall be aluminum alloy 6061-T6 or 6063-T5.
 - Exterior sign case shall be aluminum alloy 3003-H14, .063 inches thick, resistance welded to structural frame.
 - Roaming connectors, roaming wires and socket arms shall be aluminum alloy 3003-H14, .082 inch thick. Resistance welded to roaming wires.
 - All fasteners shall be aluminum alloy 3003-T4 or 3003 stainless steel.
 - Filter wire for mercury gas welding shall be aluminum alloy 4043.
 - A corrosion control/resolution gas/let equivalent to Tg prepreg shall be provided between all contact surfaces of aluminum and steel.



For complete details of internally illuminated signs, see Sheet 47, Electric Signs to shop drawings: 035, 036, 037, 038, 039, 040, 041, 042, 043, 044, 045, 046, 047, 048, 049, 050, 051, 052, 053, 054, 055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 065, 066, 067, 068, 069, 070, 071, 072, 073, 074, 075, 076, 077, 078, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 090, 091, 092, 093, 094, 095, 096, 097, 098, 099, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.



SUPPLEMENTAL CONTRACT DRAWING

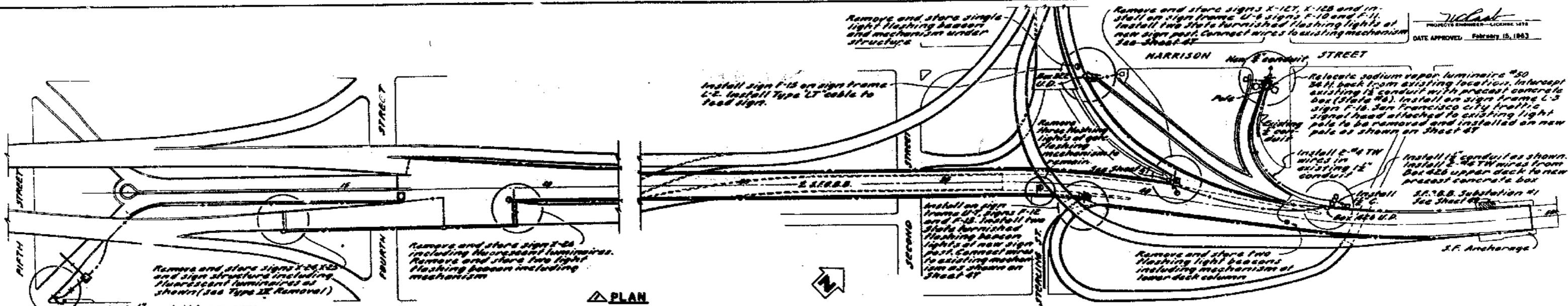
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

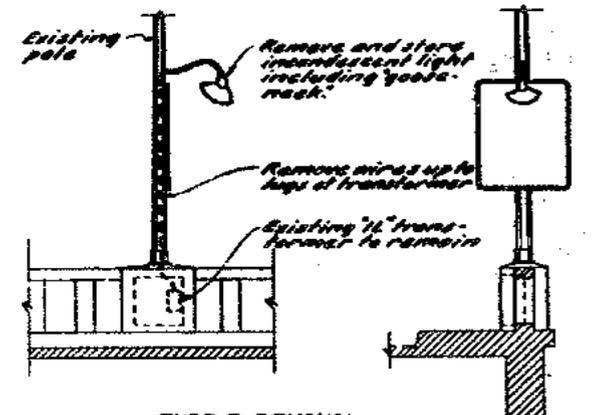
ELECTRICAL - INTERNALLY ILLUMINATED SIGNS

UNLESS NOTED	33-25		
SCALE: 1"=1'-0"	BRIDGE 34-04	SHEET No 46	DRAWING C4033-46R

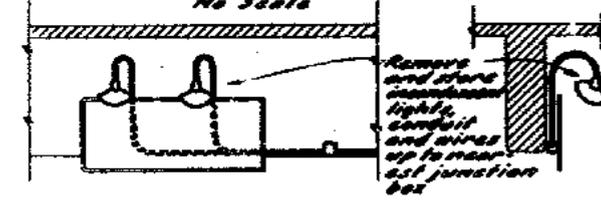
MARK	DATE	DESCRIPTION	BY	CHK
1200		As built with revisions	LLS	WBL
400		Size changed on sign F8	DLS	HJK



PLAN



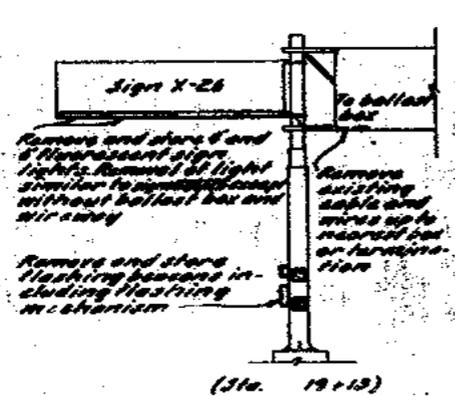
TYPE I REMOVAL
No Scale



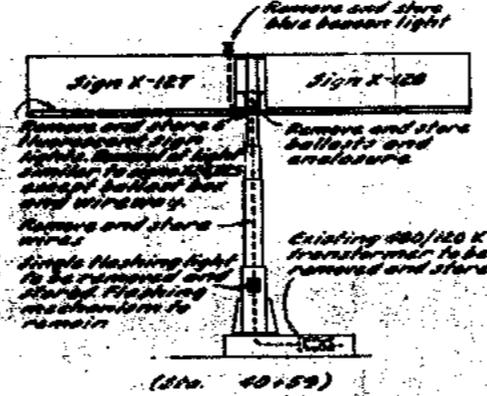
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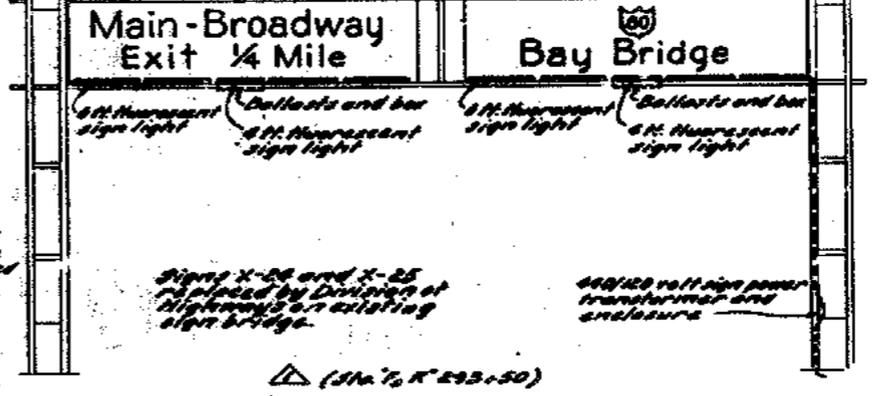
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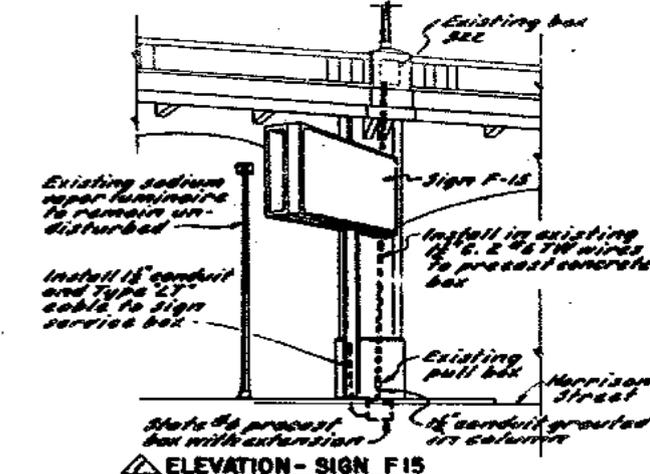
(Sta. 19+13)



(Sta. 40+59)

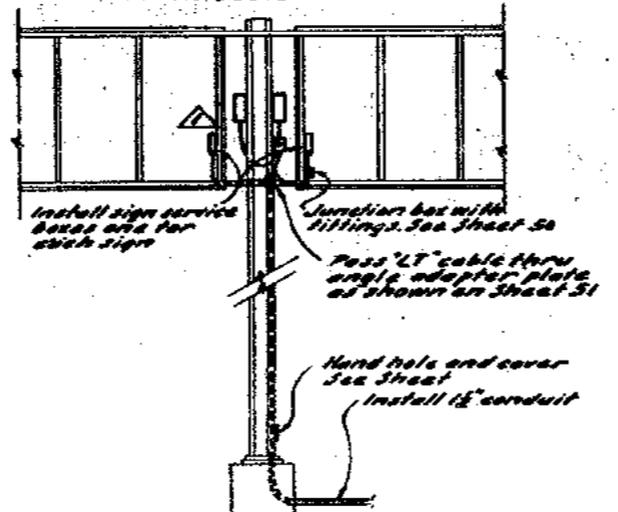


(Sta. 75+293+50)



ELEVATION - SIGN F15
No Scale

Sign No.	Location	Sign/Removal
X-2	Sta. 1-25	
X-3	Sta. 1-25	
X-4	Sta. 1-25	
X-5	Sta. 1-25	
X-6	Sta. 1-25	
X-7	Sta. 1-25	
X-8	Sta. 1-25	
X-9	Sta. 1-25	
X-10	Sta. 1-25	
X-11	Sta. 1-25	
X-12	Sta. 1-25	
X-13	Sta. 1-25	
X-14	Sta. 1-25	
X-15	Sta. 1-25	
X-16	Sta. 1-25	
X-17	Sta. 1-25	
X-18	Sta. 1-25	
X-19	Sta. 1-25	
X-20	Sta. 1-25	
Total		19 2 4 6

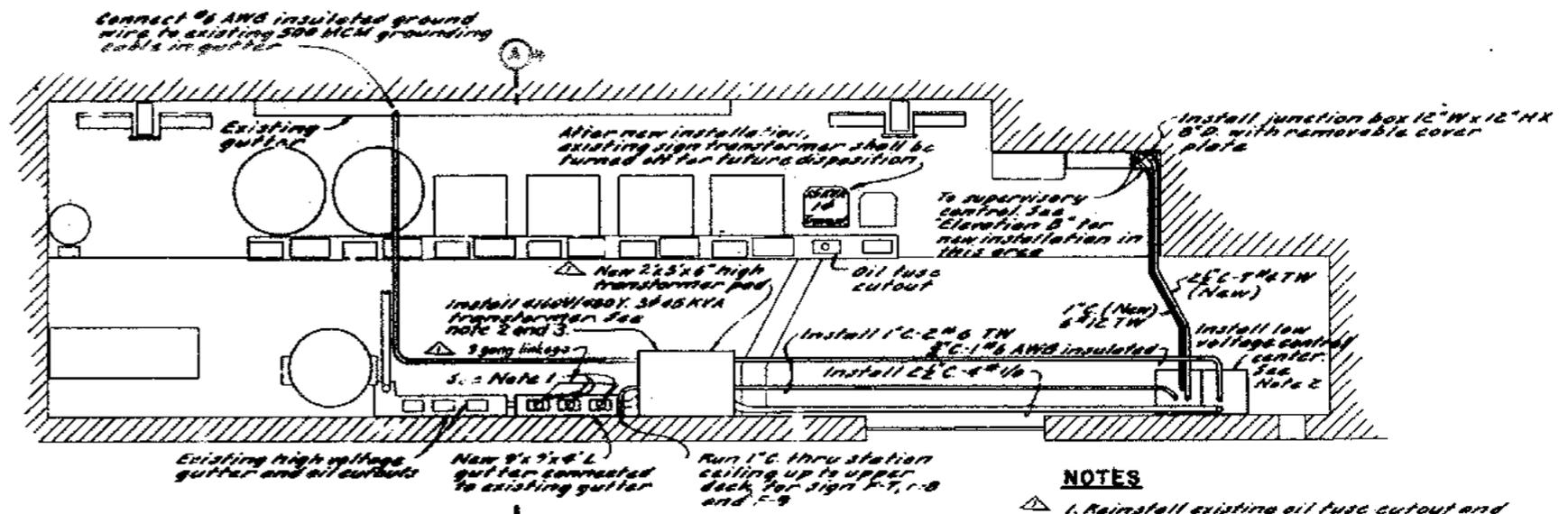
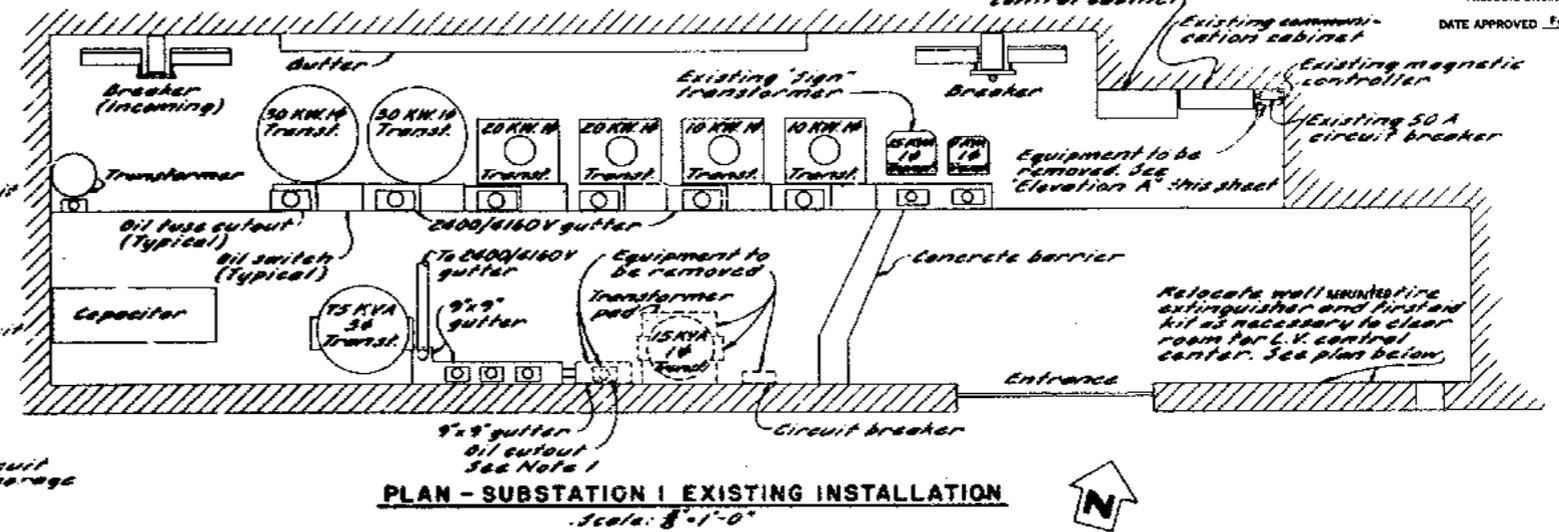
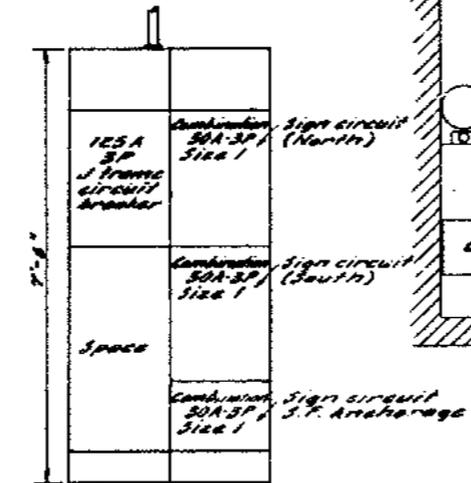
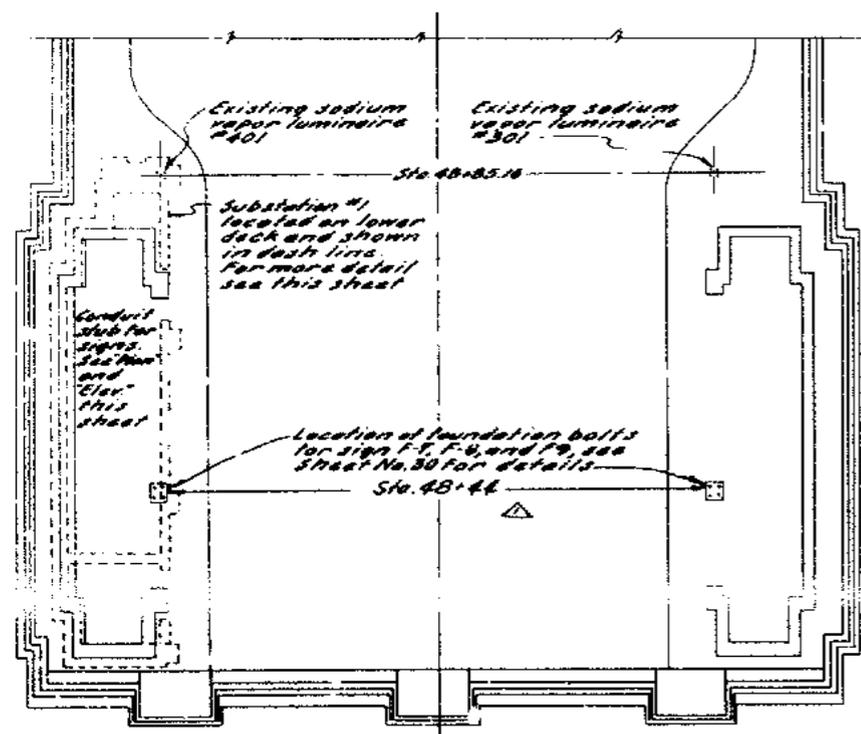


TYPICAL SIGN FEEDER SIGN FRAME U-6 AND U-7
Scale: 1/4" = 1'-0"

- NOTES
1. For legend see Sheet 44.
 2. For details of sign junction box, see Sheet 50; and for sign service box, see Sheet 51.



STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS			
SAN FRANCISCO - OAKLAND BAY BRIDGE RECONSTRUCTION DECK SURFACING			
ELECTRICAL-SAN FRANCISCO APPROACHES			
MARK DATE	DESCRIPTION	BY	CHK
	REVISION		
UNLESS NOTED SCALE 1" = 40'	BRIDGE 54-04	SHEET No. 48	DRAWING-4033-404

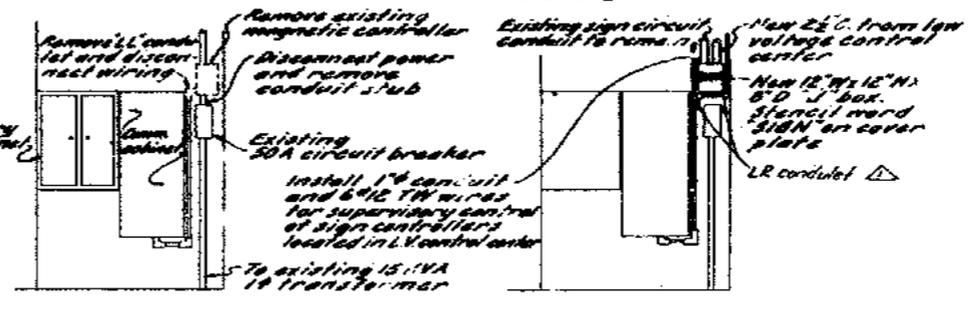
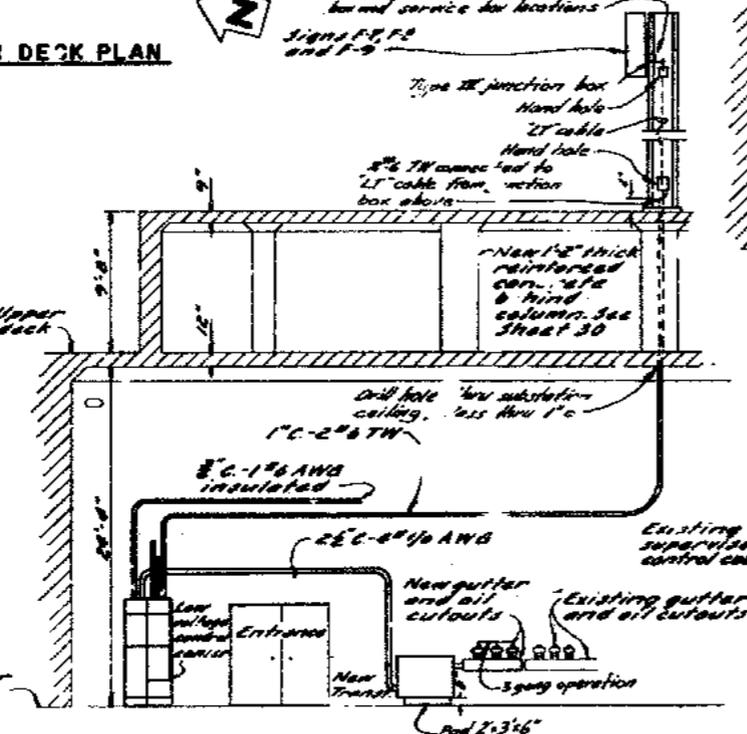
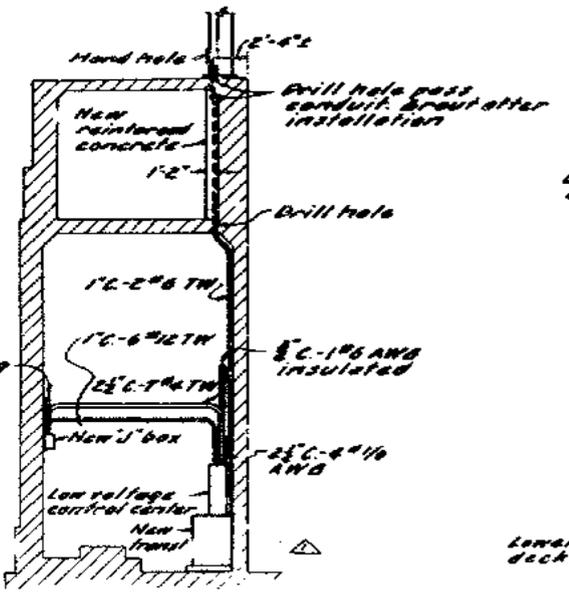


SAN FRANCISCO ANCHORAGE - UPPER DECK PLAN
 Scale: 1"=10'-0"

LOW VOLTAGE CONTROL CENTER
 Scale: 3/4"=1'-0"
 (See Note 4)

PLAN - SUBSTATION I NEW INSTALLATION
 Scale: 3/4"=1'-0"

- NOTES**
1. Reinstall existing oil fuse cutout and install two similar fuse furnished cutouts on top of new gutter. Provide 3 gang operation of cutouts.
 2. For connection see Sheet 45.
 3. Transformer shall be dry type O.E.#9T25V4303.
 4. The low voltage control center shall be Square D 3P 4W 275/480 mbs with 120V control, totally enclosed, free standing type, constructed in compliance with NEMA Standards for type B, class II construction.



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

ELEVATION - SOUTH WALL
 Scale: 3/4"=1'-0"

ELEVATION 'A'
 No Scale

ELEVATION 'B'
 No Scale

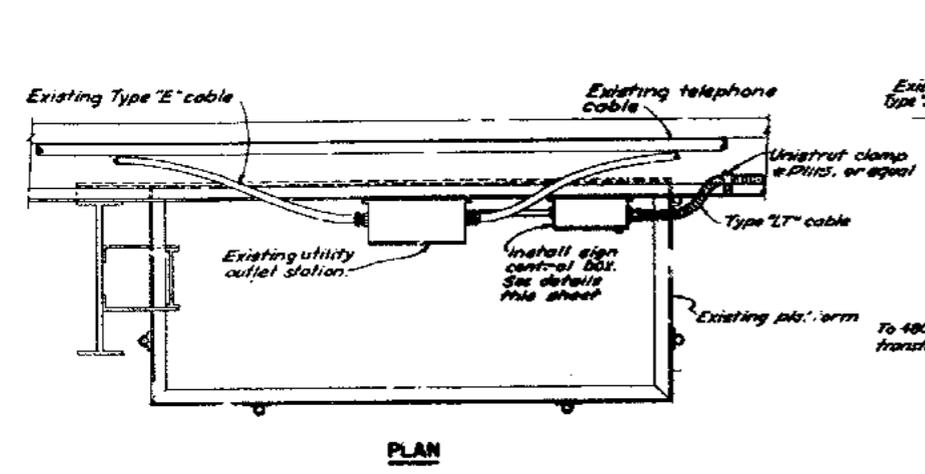
MARK	DATE	DESCRIPTION	BY	CHK
44		As built with revisions		

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

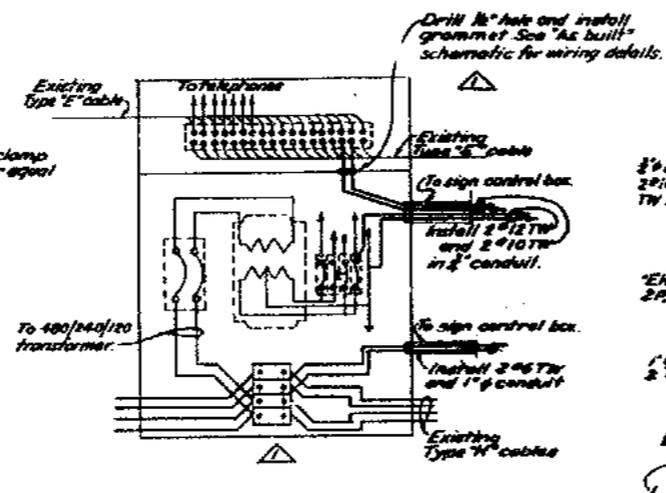
**SAN FRANCISCO - JAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING**

ELECTRICAL - SAN FRANCISCO ANCHORAGE

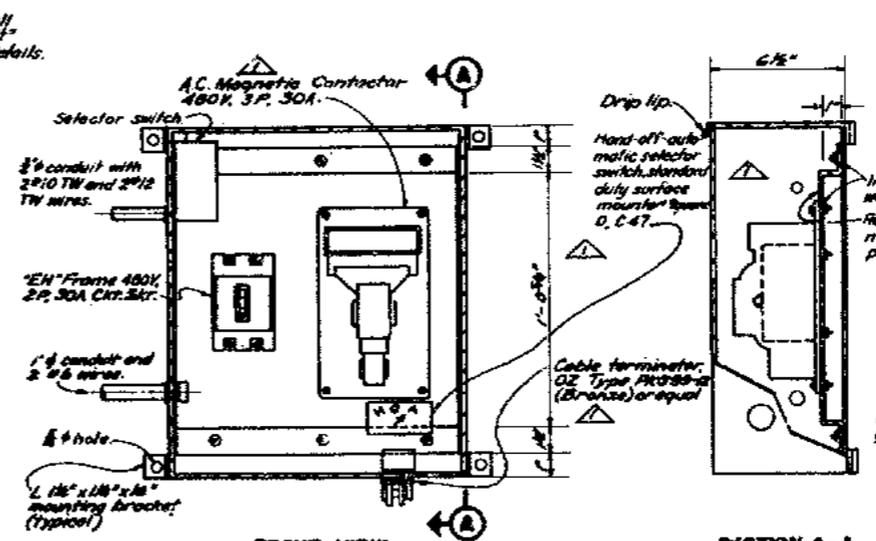
33-25	34-03	34-04
BRIDGE	SHEET No. 49	DRAWING C-4033-49P



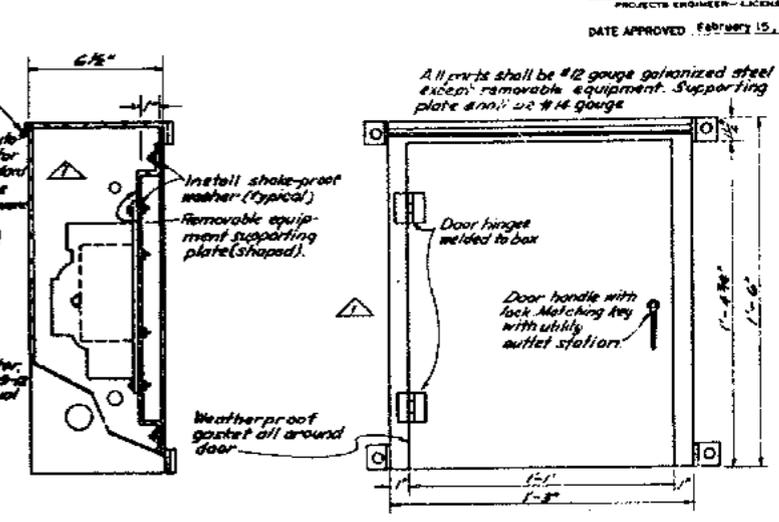
PLAN



UTILITY OUTLET STATION
 No Scale



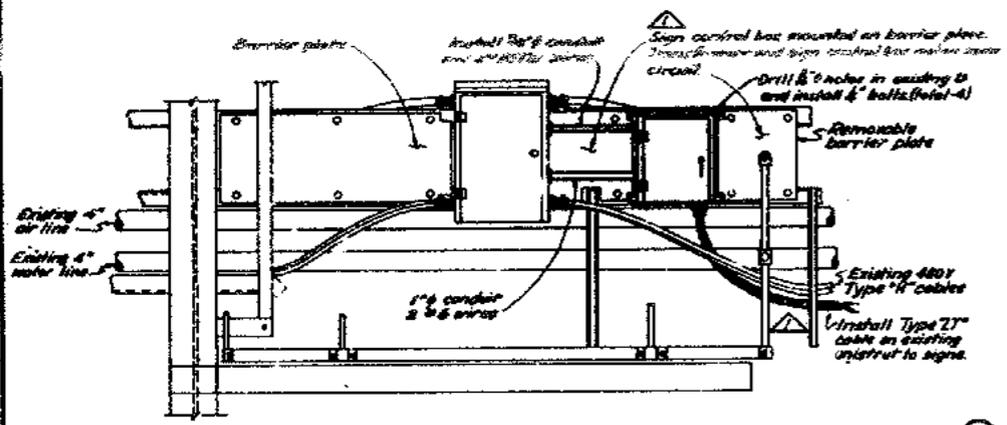
FRONT VIEW
 (Without door)



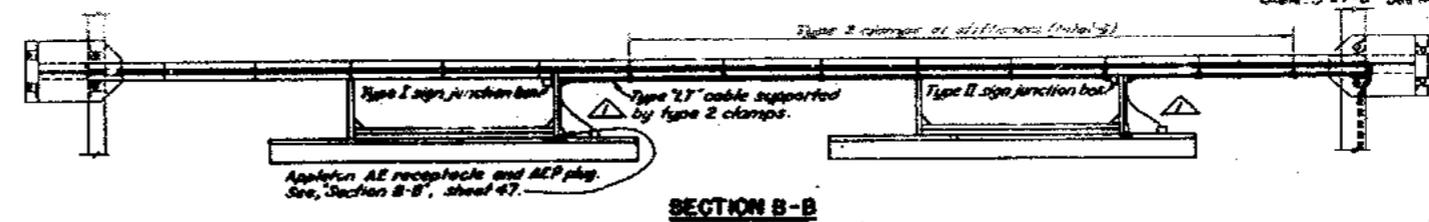
SECTION A-A
SIGN CONTROL BOX
 Scale: 3/4"=1'-0" See Note 4

FRONT VIEW
 (With door)

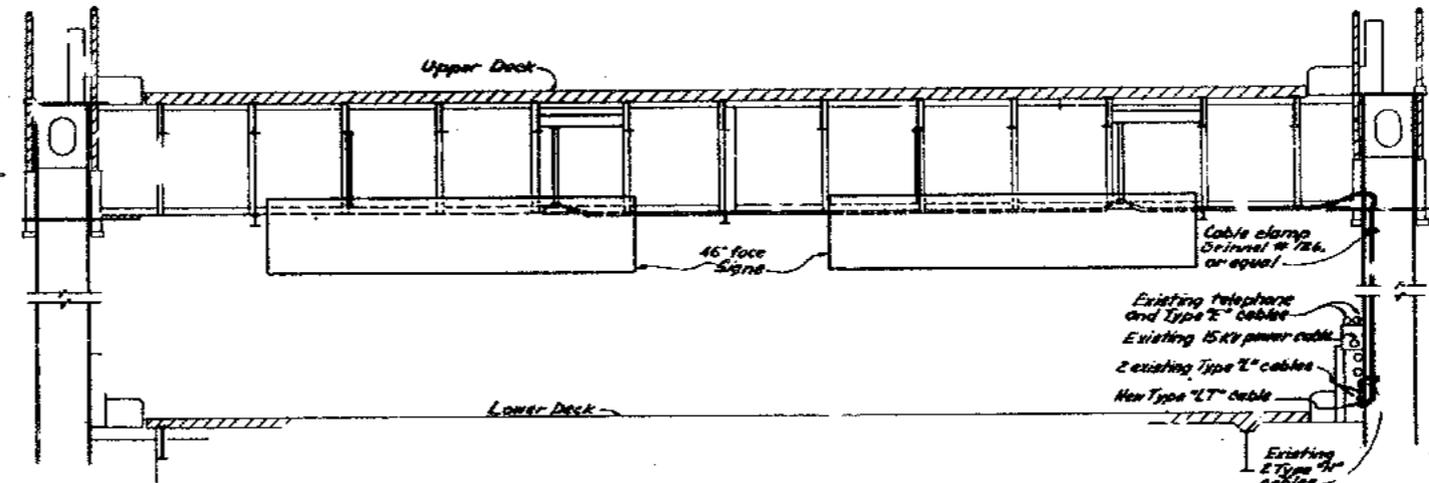
All work shall be #12 gauge galvanized steel except removable equipment. Supporting plate shall be #14 gauge.



ELEVATION
TYPICAL EXISTING & NEW PLATFORM INSTALLATION
 Scale: 1/4"=1'-0"



SECTION B-B

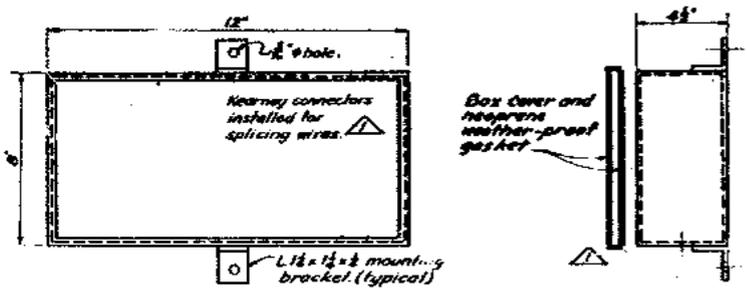


WEST ELEVATION
TYPICAL "LT" CABLE INSTALLATION FOR SIGNS F-17, 18, 19, 20, 21 & 22
 Scale: 1/4"=1'-0" (Looking East)



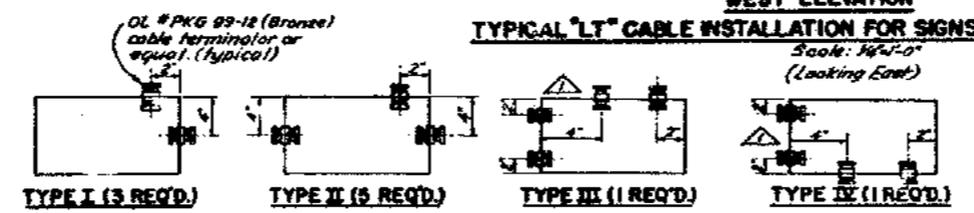
TYPE 1
TYPE 2
CABLE CLAMP DETAILS
 No Scale

- NOTES**
1. Install sign control box on designated platforms, sheet 44.
 2. Maximum spacing for Grinnell #126 cable clamps shall be 4'-6".
 3. For sign support detail, see sheet 28.
 4. Contractor shall furnish 6 sign control boxes for typical service box, see sheet 51.



FRONT VIEW
SIGN JUNCTION BOX
 Scale: 1/4"=1'-0"

All parts shall be #12 gauge galvanized steel.



TYPE I (3 REQ'D)
TYPE II (5 REQ'D)
TYPE III (1 REQ'D)
TYPE IV (1 REQ'D)
SIGN JUNCTION BOX SCHEDULE
 No Scale

See "Sign Junction Box" detail this sheet for box dimensions except junction box at Sta. 169+16. See sheet 52 for dimensions and details.

Pass LT cable thru available opening.

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

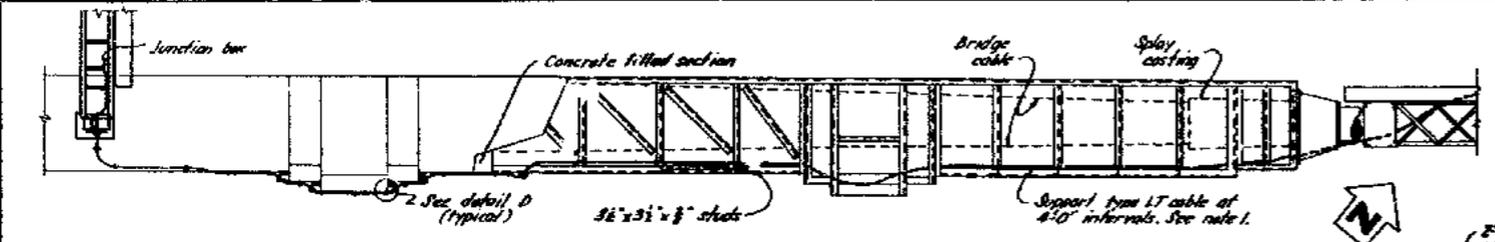


MARK	DATE	DESCRIPTION	BY	CHK	AS SHOWN	SCALE	BRIDGE	SHEET NO.	DRAWING
1	1-64	As built with revisions	cfc	pjt			34-04	50	C-4033-50P

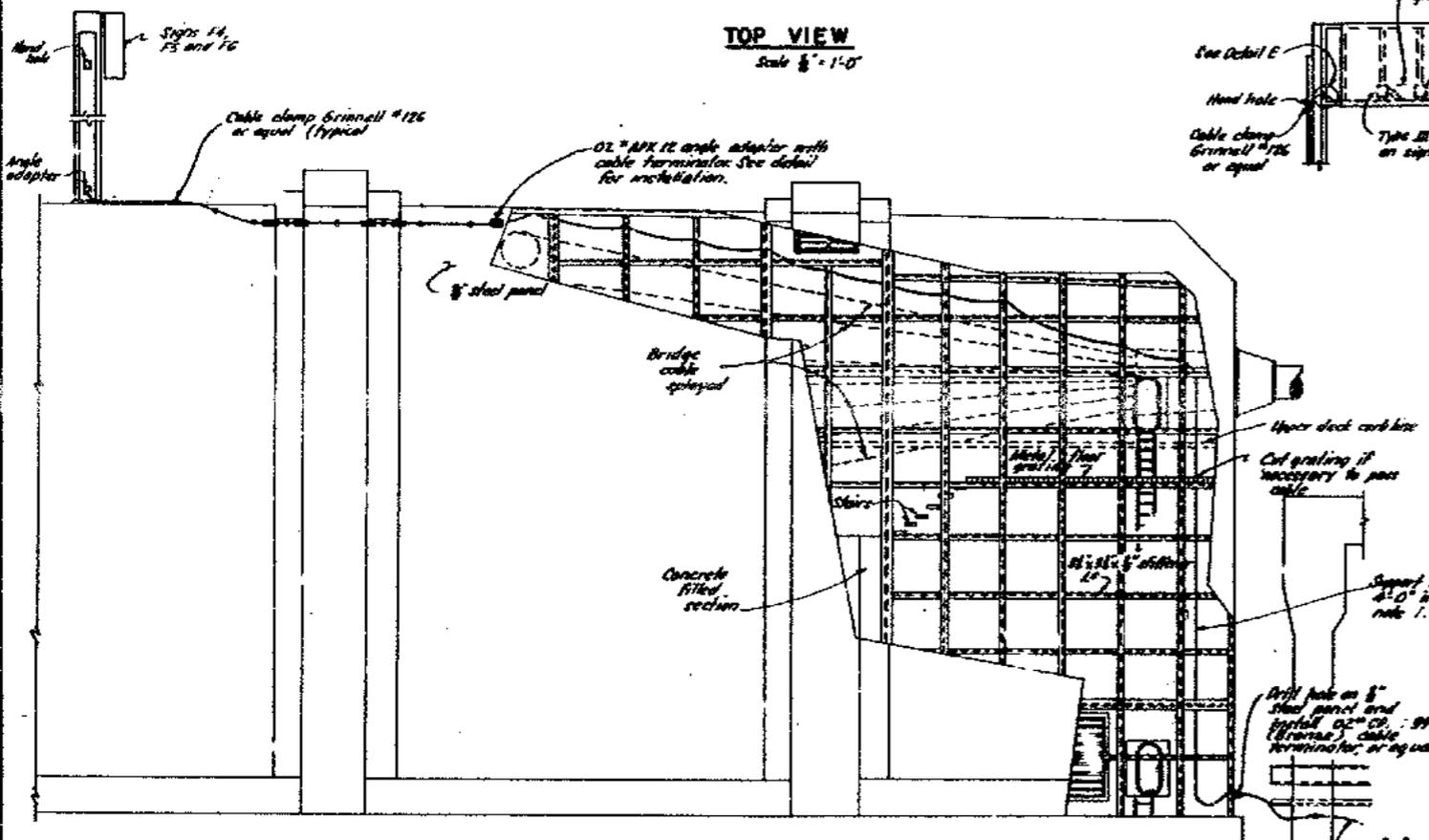
STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING

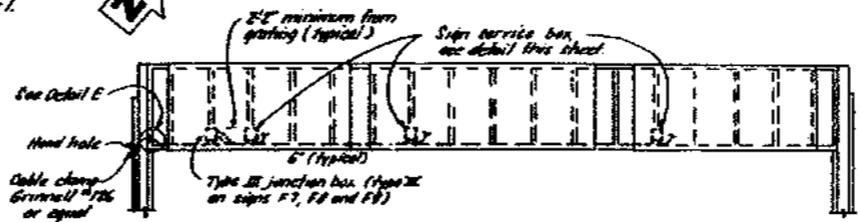
ELECTRICAL - WEST BAY



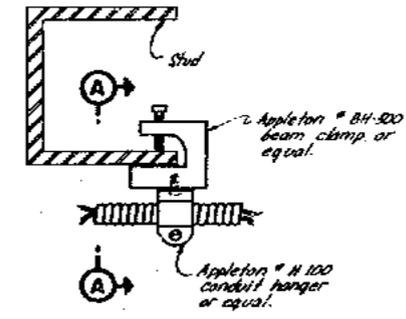
TOP VIEW
Scale 3/8" = 1'-0"



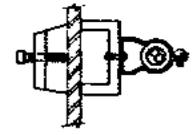
PIER W-4 TYPE "LT" CABLE INSTALLATION
Scale 3/8" = 1'-0"



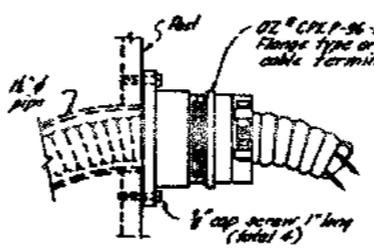
ELEVATION - SIGNS F4, F5 AND F6
No scale
(Signs F7, F8 and F9 similar except reversed)



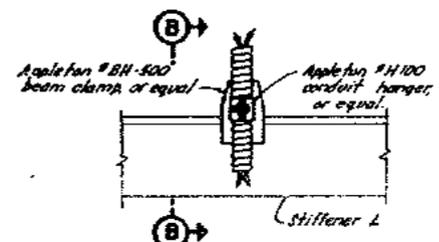
"LT" CABLE MOUNTING DETAIL A
No scale



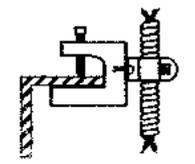
SECTION A-A
No scale



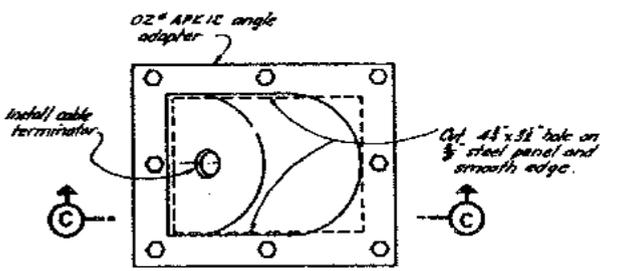
DETAIL E
No scale



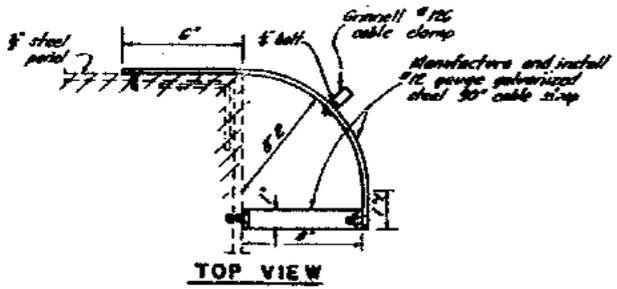
"LT" CABLE MOUNTING DETAIL B
No scale



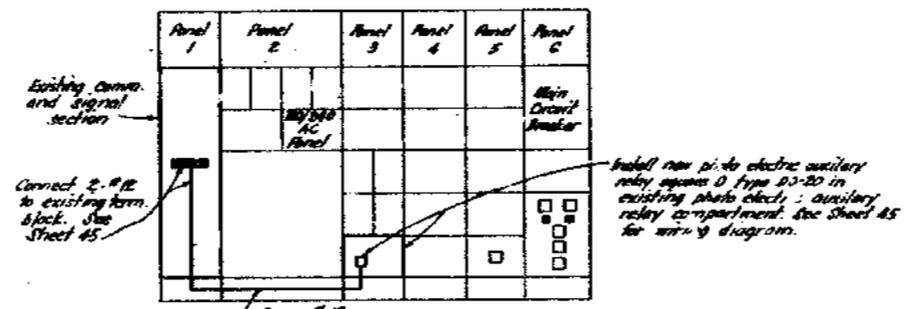
SECTION B-B
No scale



ANGLE ADAPTER INSTALLATION
Scale 3/8" = 1'-0"



DETAIL D
No scale
See note 3



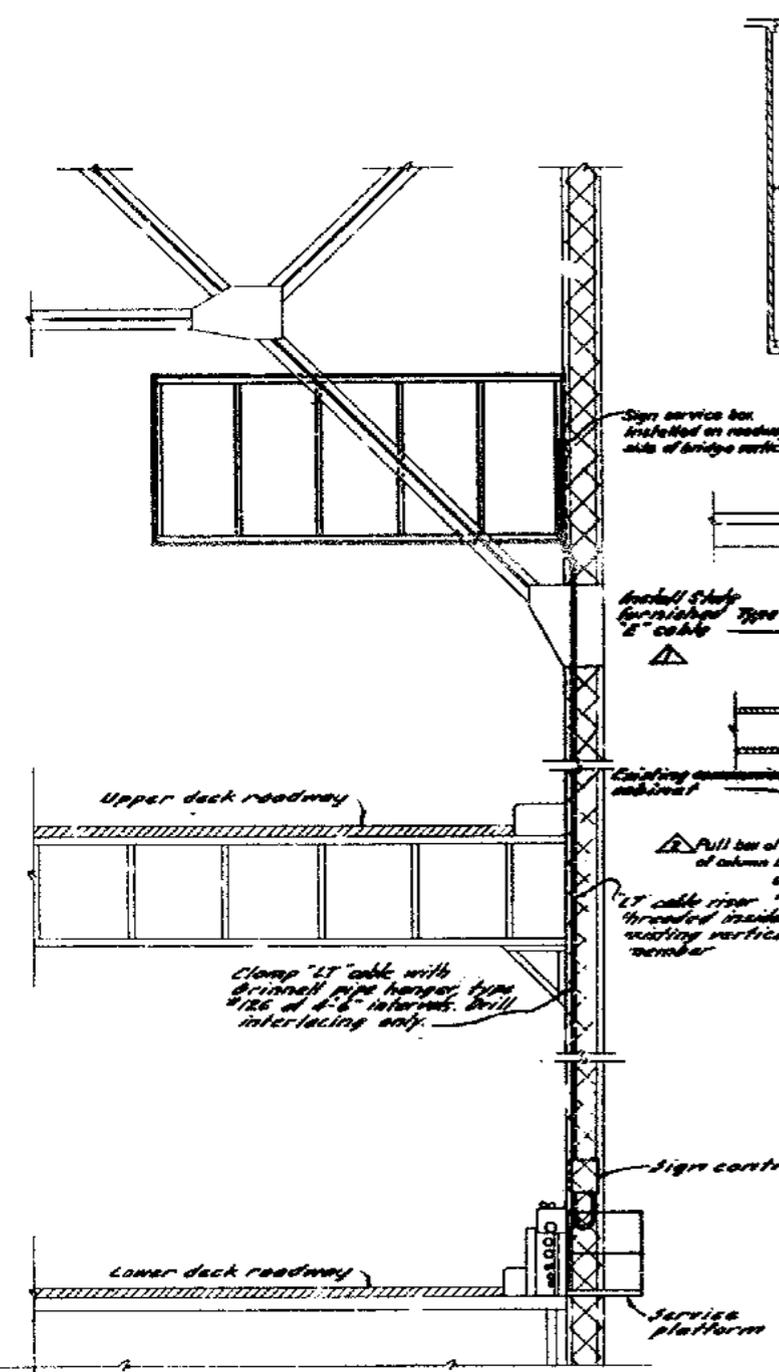
EXISTING LOW VOLTAGE CONTROL CENTER AT PIER W-4 SUBSTATION
No scale

NOTES
1. "LT" cable shall be supported as shown on "LT" cable mounting detail A or B this sheet.
2. For sign junction box details, see Sheet 50
3. Install cable straps as directed in field.

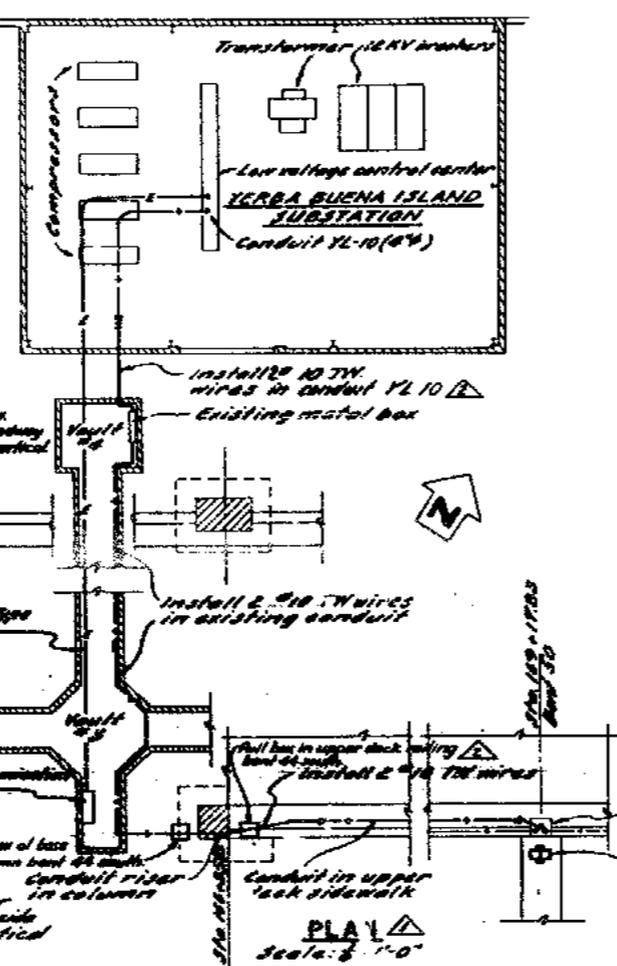


MARK	DATE	DESCRIPTION	BY	CHK
916A		As built with revisions B.P.S. N.B.S.		
		REVISION		

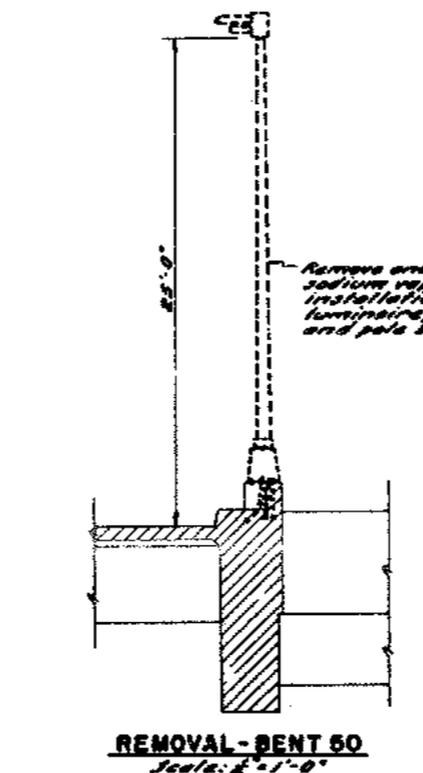
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS			
SAN FRANCISCO-OAKLAND BAY BRIDGE			
RECONSTRUCTION DECK SURFACING			
ELECTRICAL - PIER W-4			
SCALE AS SHOWN	BRIDGE 34-04	SHEET No. 51	DRAWING-4033-51P



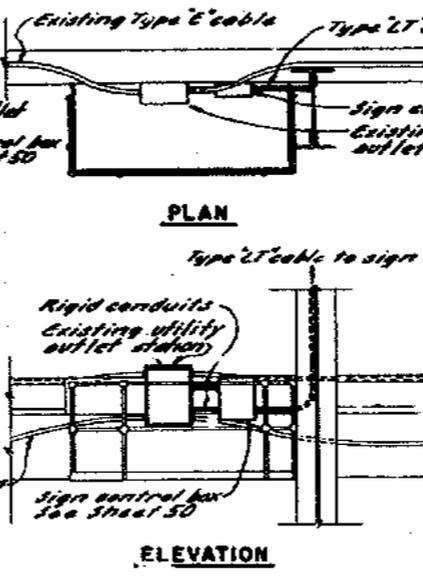
TYPICAL SIGN F-1 AND F-2 INSTALLATIONS (Looking East)
 Scale: 3/4" = 1'-0"



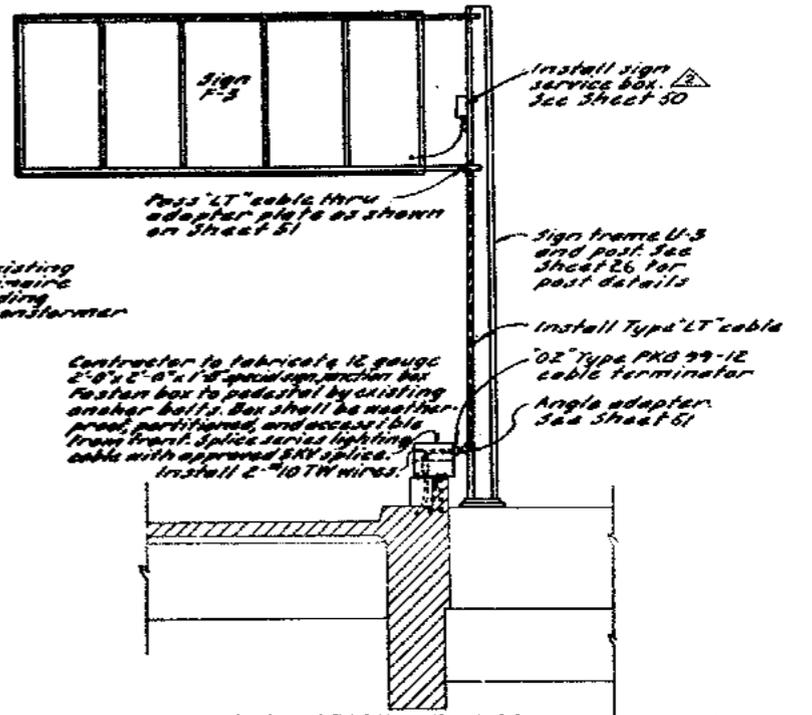
SERVICE PLATFORM STA. 218+32
 Scale: 3/4" = 1'-0"



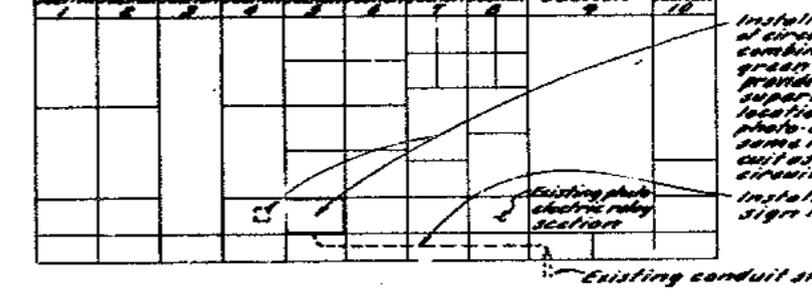
REMOVAL - BENT 50
 Scale: 3/4" = 1'-0"



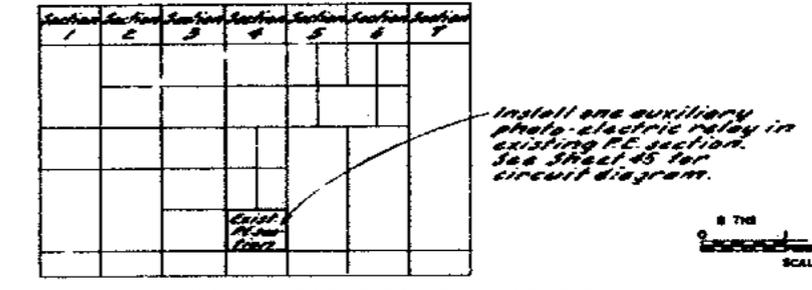
SERVICE PLATFORM STA. 192+86
 Scale: 3/4" = 1'-0"



INSTALLATION - BENT 50 (Looking East)
 Scale: 3/4" = 1'-0"



LOW VOLTAGE CONTROL CENTER - YERBA BUENA ISLAND SUBSTATION



LOW VOLTAGE CONTROL CENTER - PIER E9 SUBSTATION

MARK	DATE	DESCRIPTION	BY	CHK
9-100		As built with revisions	CF	ABT
9-260		Wires added at K.B.I.	WF	HBI

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CONCERNING

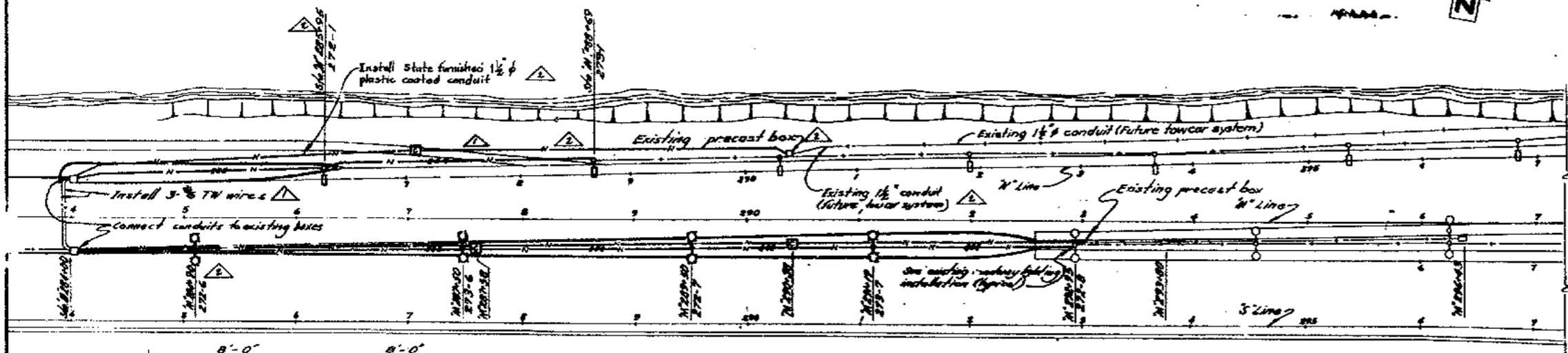
**SAN FRANCISCO-OAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING**

ELECTRICAL - EAST BAY

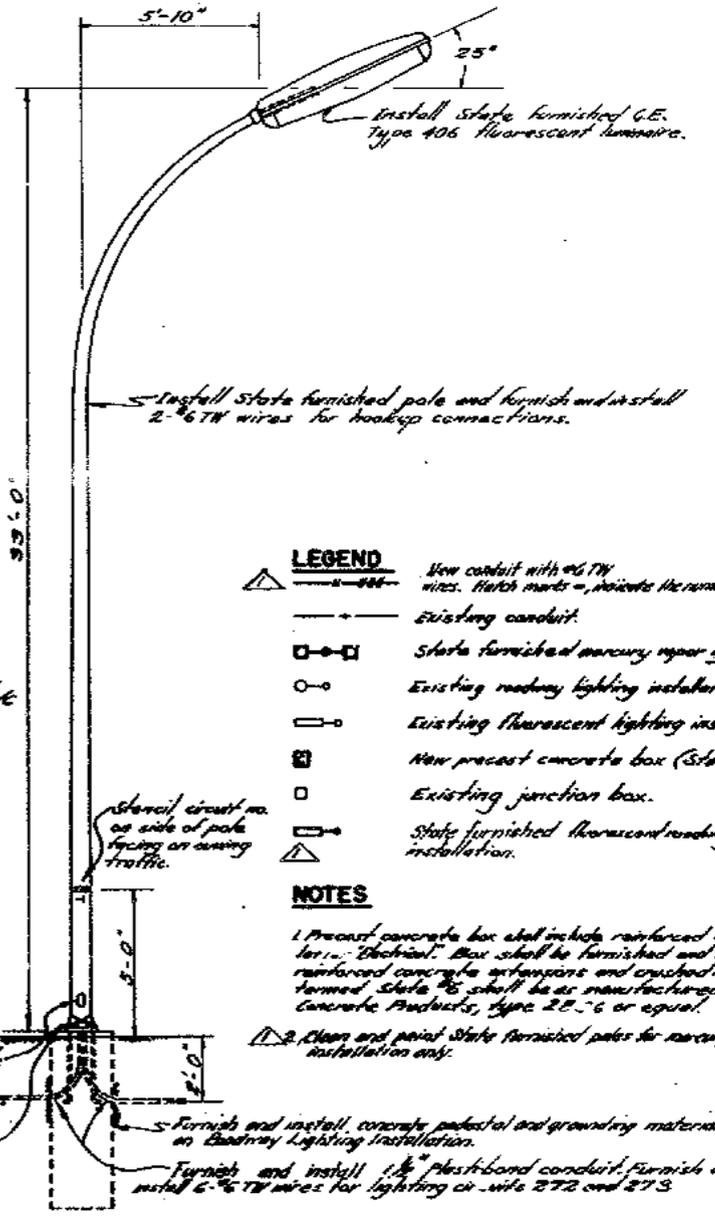
BRIDGE 33-25
 34-03
 34-04

SHEET: No. 52
 DRAWING: C-4033-52R

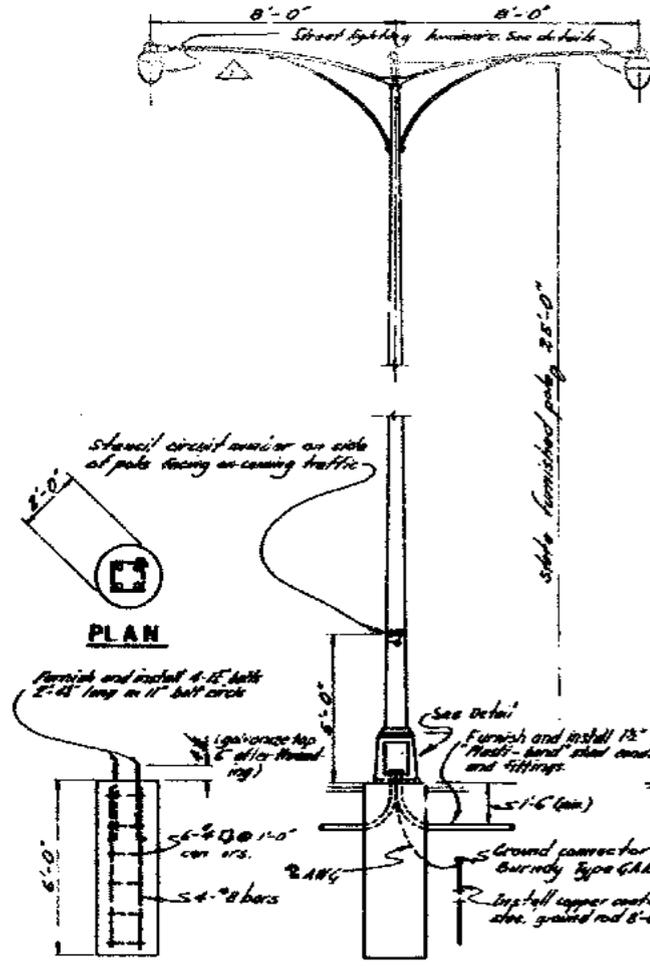
CHECK AND SEAL APPROVED BY: [Signature]



PLAN
Scale: 1"=20'-0"

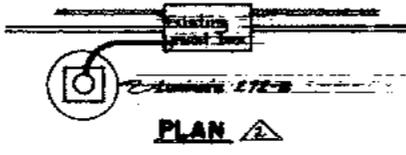


- LEGEND**
- New conduit with 60 TH wires. Hatch marks =, indicate the number of wires to be installed.
 - Existing conduit.
 - State furnished mercury vapor lighting installation.
 - Existing roadway lighting installation.
 - Existing fluorescent lighting installation.
 - New precast concrete box (State #6).
 - Existing junction box.
 - State furnished fluorescent roadway lighting installation.
- NOTES**
1. Precast concrete box shall include reinforced concrete lid for "Electrical". Box shall be furnished and installed with reinforced concrete extensions and crushed rock. Box formed State #6 shall be as manufactured by Christy Concrete Products, type 2B-6 or equal.
 2. Clean and paint state furnished poles for mercury vapor lighting installation only.

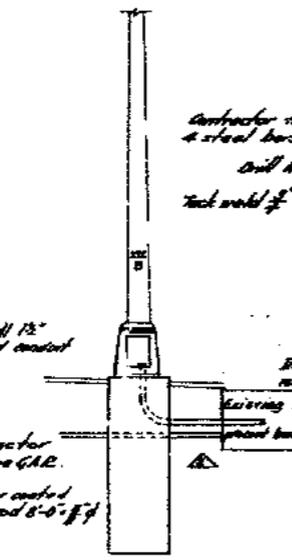


CONCRETE PEDESTAL
Scale: 1"=1'-0"

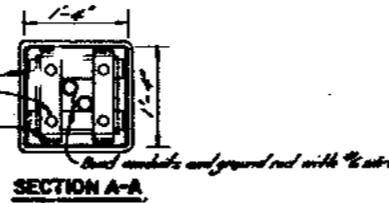
INSTALL ROADWAY LIGHTING INSTALLATION
Scale: 1"=1'-0"



PLAN

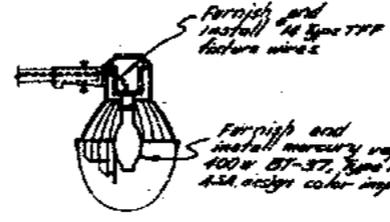


EXISTING ROADWAY LIGHTING INSTALLATION
Scale: 1"=1'-0"

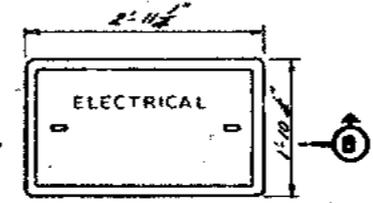


SECTION A-A

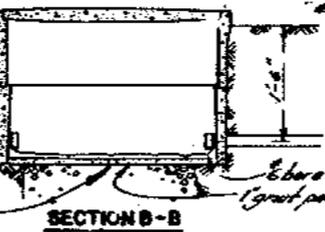
INSTALL STATE-FURNISHED TRANSFORMER BASE
Scale: 1"=1'-0"



STATE-FURNISHED LUMINAIRE



PLAN



SECTION B-B

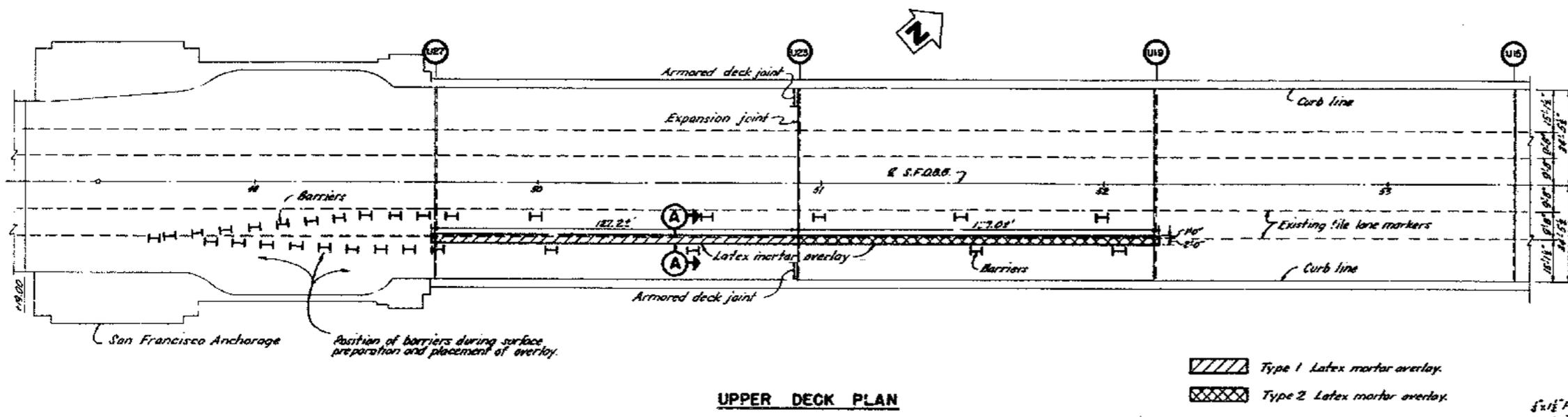
STATE NO. 6 BOX WITH EXTENSION
Scale: 1"=1'-0"

INSTALL STATE FURNISHED LUMINAIRE
Scale: 1"=1'-0"



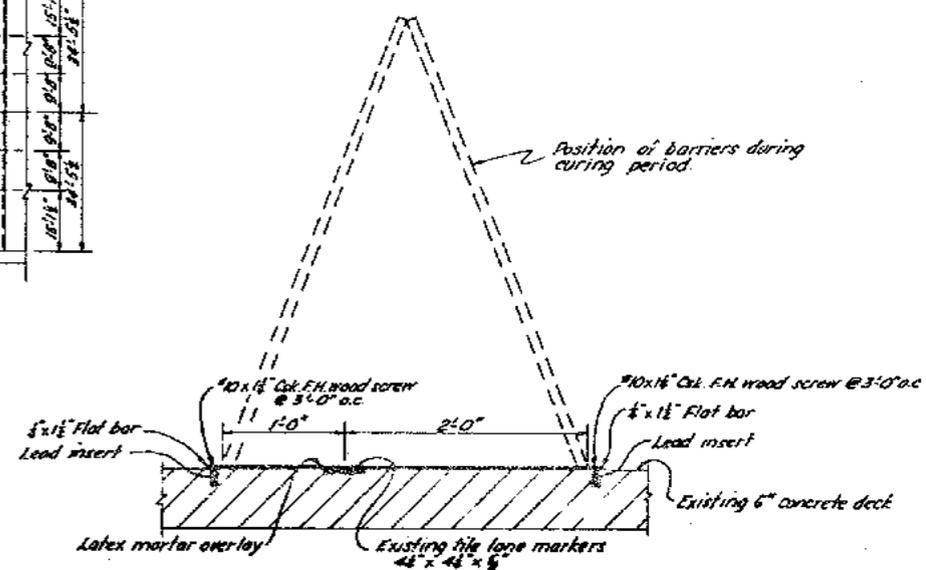
DATE MARK	DESCRIPTION	BY	CHK
2-1-63	As built with revisions	AE	H.B.T.
2-1-63	State furnished fluorescent lighting	ME	H.B.T.
2-1-63			
2-1-63			

SUPPLEMENTAL CONTRACT DRAWING			
SAN FRANCISCO-OAKLAND BAY BRIDGE RECONSTRUCTION DECK SURFACING			
ELECTRICAL-"M" STA. 294400 TO "M" STA. 302400			
SCALE AS SHOWN	BRIDGE	SHEET No. 53	DRAWING-C-4C53-53R



UPPER DECK PLAN

Type 1 Latex mortar overlay.
 Type 2 Latex mortar overlay.



SECTION A-A

Scale 1/2" = 1'-0"

GENERAL NOTES

A. SURFACE PREPARATION

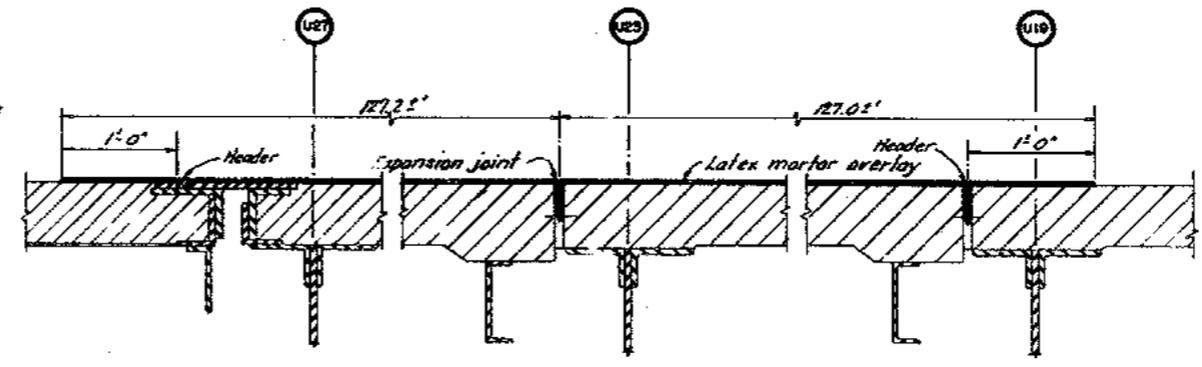
- The entire overlay area shall be sand blasted to roughen the surface and to remove all grease, oil, dirt or other deleterious substances. Sand blasting shall be performed in such a manner that no excess loose sand will be blown into adjacent traffic lanes. Suitable enclosures shall be employed, if necessary.
- All loose sand and dust shall be removed from the sand blasted area by hand sweeping and/or vacuuming.
- 3/4" steel flat bar screeds shall be installed on the existing pavement along the longitudinal edges of the overlay area. The screeds may be lightly oiled to facilitate their removal after the mortar has cured. Screeds shall be leveled by shims where necessary to provide a true running surface for the overlay.
- Headers shall be placed across existing transverse expansion joints to keep the joint free of mortar.
- Prepared surfaces shall be kept clean and protected from traffic until placing of mortar overlay starts.
- Mixing and placing of the latex mortar shall not begin prior to approval of the surface preparation by the Engineer.
- The prepared surface shall be dampened by fog spraying at least one hour prior to placing the mortar and shall be kept thoroughly wet, without puddles, during the placement.
- Existing file lane markers which protrude above the surface of the pavement, and which may interfere with placement operations, are to be removed.

B. LATEX MODIFIED CEMENT MORTAR

- The pavement overlays shall consist of the following two types of latex mortar:
 - Type 1, Dow Latex 560 Modified Mortar.
 Ingredients: Dow Latex 560
 Dow Corning Antifoam "B"
 Diethylene Glycol
 Portland Cement Type III
 Natural sand (ASTM designation: C-144-S17)
 Water
 - Type 2, Dow Latex X-2144 Modified Mortar.
 Ingredients: Dow Latex X-2144
 Dow Corning Antifoam "B"
 Diethylene Glycol
 Portland Cement Type III
 Natural sand (ASTM designation: C-144-S17)
- No substitutes will be accepted for the above ingredients.
- The proportions of the mix and the mixing of the mortar shall be as recommended by the latex manufacturer and as directed by the Engineer.

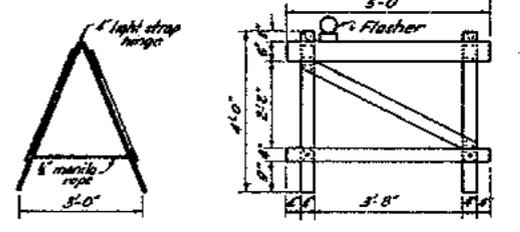
C. PLACING OF PAVEMENT OVERLAY

- All placing operations will be supervised by the latex manufacturer's representative and as directed by the Engineer.
- A thin coat of latex mortar shall be thoroughly brushed into the prepared deck surface immediately before placing the finished overlay.
- Immediately following the final screeding and brooming the overlay shall be covered with damp burlap and polyethylene film.
- 56 hours after overlay placement, the curing cover, screeds and headers shall be removed and all loose material shall be removed from the deck.
- Throughout the placing and curing period the overlay area shall be protected from traffic by barriers. The barriers shall be supplemented by warning signs and flashers.
- Allowable working hours will be influenced by traffic density on the bridge and shall be as directed by the Engineer.
- Full compensation for furnishing all labor, materials, tools, and equipment and for performing all work necessary to construct the pavement overlay test patch complete in place, shall be considered as included in the lump sum price stated on the face of the agreement and no additional allowance will be made therefor.



LONGITUDINAL SECTION

Scale 1/2" = 1'-0"



LIGHT BARRIER

Scale 1/2" = 1'-0"



MARK	DATE	DESCRIPTION	BY	CHK.
1	9.1.64	As built without revisions	CH	ZAK
		REVISION		

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO - OAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING**

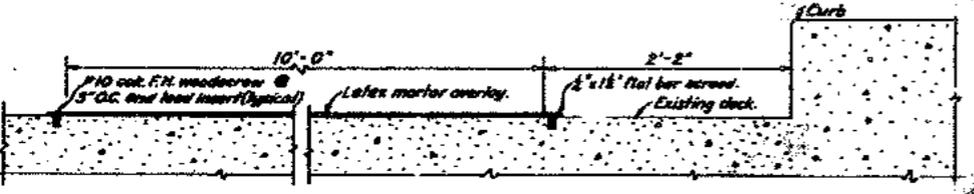
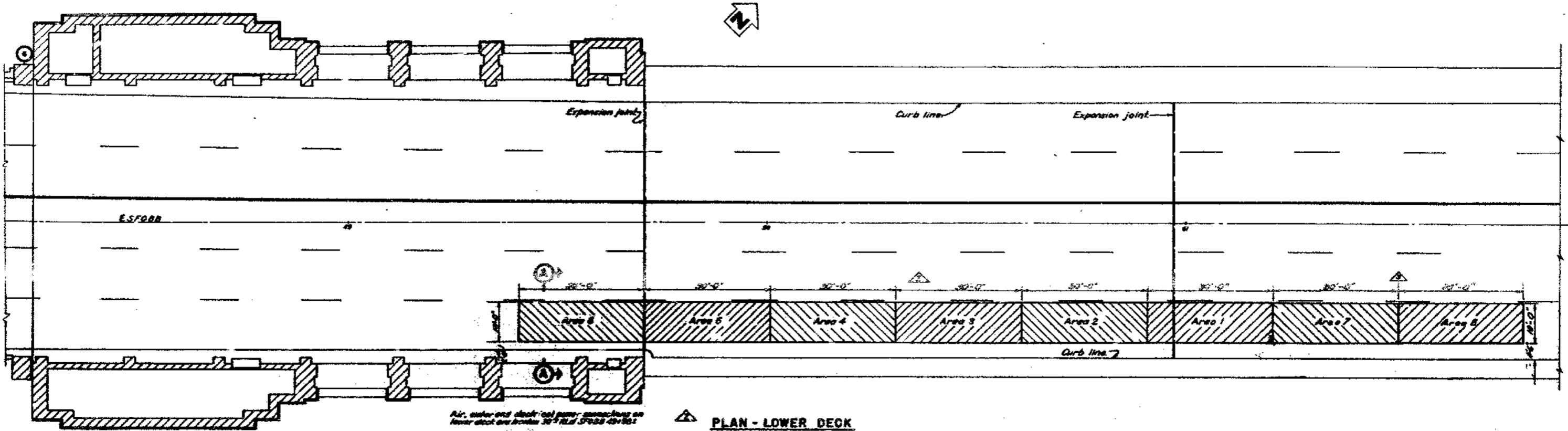
PAVEMENT OVERLAY-TEST PATCH

UNLESS NOTED SCALE 1" = 20'

BRIDGE 33-25
 34-03
 34-04

SHEET No. 55

DRAWING M-6033-1B



OVERLAY TEST MATERIALS

AREA NO.	MATERIAL	MANUFACTURER
1	Polyester-sand mortar	California Chemical Co. Granite Div.
2	Polyester-sand mortar	Reichhold Chemical Co.
3	Filled polyester mortar	Cook Paint and Varnish Co.
4	Latex modified mortar	B.F. Goodrich Co. Chemical Div.
5	Latex modified mortar	Dow Chemical Co.
6	Latex modified mortar	Dow and Almy Chemical Corp.
7	Gold Mix Epoxy-Asphalt Concrete	Proflex - a. Co. Inc.
8	Radman Absorption Process floor epoxy	Kalman Floor Co. (See Note 12)

GENERAL NOTES

- The purpose of this test is to evaluate representative samples of deck overlay materials for use in resurfacing the upper deck of the S.F.O.B.B.
 - The contractor shall obtain from the manufacturer detailed specifications and procedures for handling each material and for determining the yield of the work required in placing each material in the overlay test area. These specifications and procedures shall cover surface preparation, equipment, materials, formulations, placement and curing, and shall have been approved by the Engineer prior to their submittal to the contractor.
 - Headers shall be placed across existing transverse expansion joints to keep the joint gaps free of mortar.
 - The locations of the test areas shown on the plan are approximate. The exact areas will be designated by the Engineer.
 - All surface preparation and placing operations shall be supervised by the material manufacturer's representative.
 - Conforming edges between adjacent overlays and between the overlays and the existing deck shall be finished as to provide a smooth finished deck surface.
 - 1/2" steel flat bar screeds shall be installed along the longitudinal edges of the overlay area where necessary to provide a minimum 1/2" overlay thickness on the existing deck.
 - Throughout the placing and curing period the overlay shall be protected from traffic by barriers. The barriers shall be supplemented by warning signs or flashers.
 - Allowable working hours will be governed by the traffic density on the bridge and shall be as directed by the Engineer. A minimum of two lanes shall be kept open for traffic in each direction during the peak hours.
 - Individual test areas may be subdivided to provide for the testing of different materials by a manufacturer.
 - Full compensation for furnishing of labor, materials, tools, and equipment, and for performing all work necessary to construct the pavement overlay test patch sample in place, shall be considered as included in the unit price per square foot stated on the face of the agreement and no additional allowance will be made therefor.
 - The estimated quantity given on the face of the agreement is approximate only, being given as a basis for the comparison of bids, and the Division does not, expressly or by implication, agree that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount of the work, as may be deemed necessary or advisable by the Engineer.
- Overlay test patch area No. 8 to be placed by the manufacturer. (Not in contract)



MARK	DATE	DESCRIPTION	BY	CHK
11-64		As built without revisions	DB	BNZ
8-66		Test area 7 and 8 added	ROC	BNZ
7-66		Locations of test area changed	DB	BNZ
6-62		Area 7 deleted	BNZ	BNZ

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
OFFICE OF SAN FRANCISCO BAY TOLL COMMISSION

**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

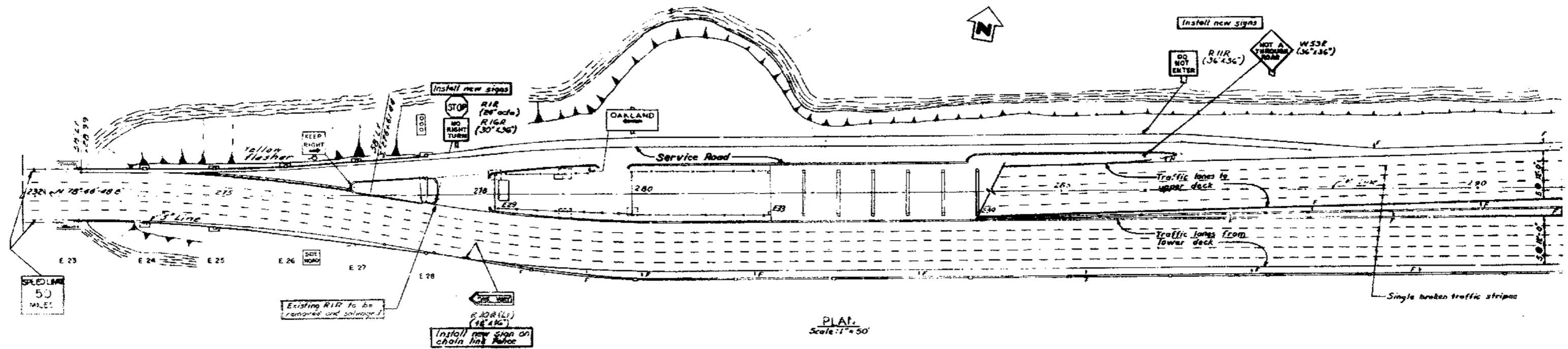
LOWER DECK-OVERLAY TEST PATCH

SCALE 1" = 10'

33-25
34-03
34-04

SHEET No. 56

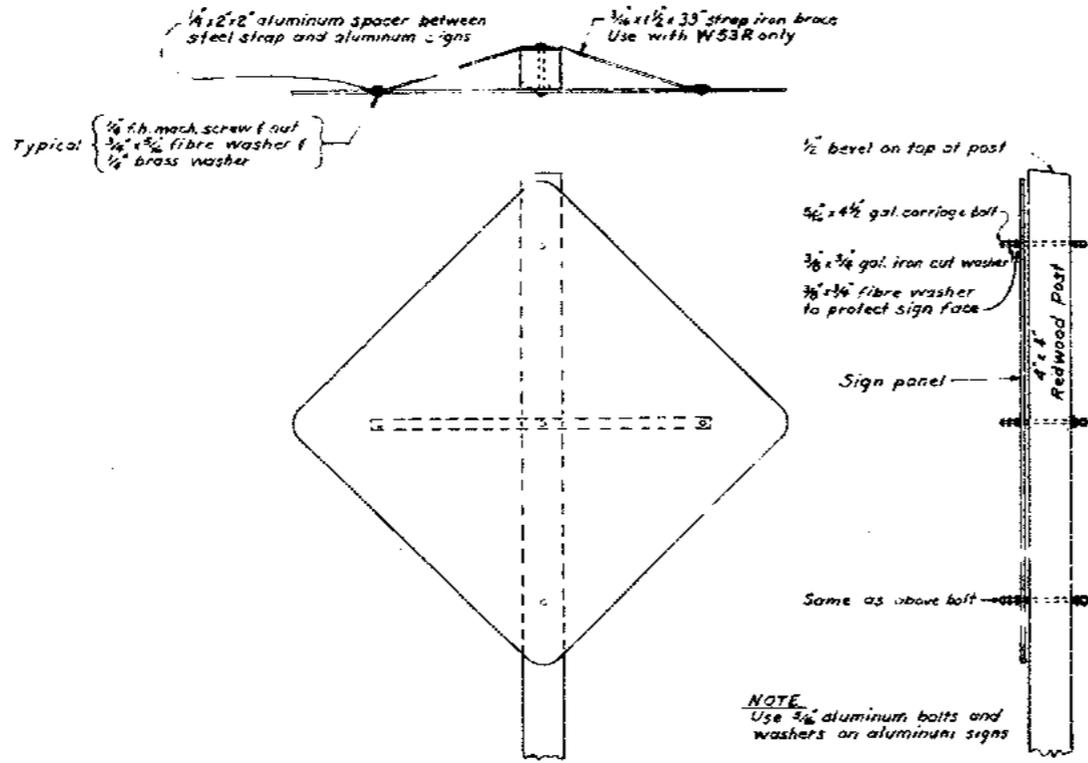
DRAWING M-4033-20



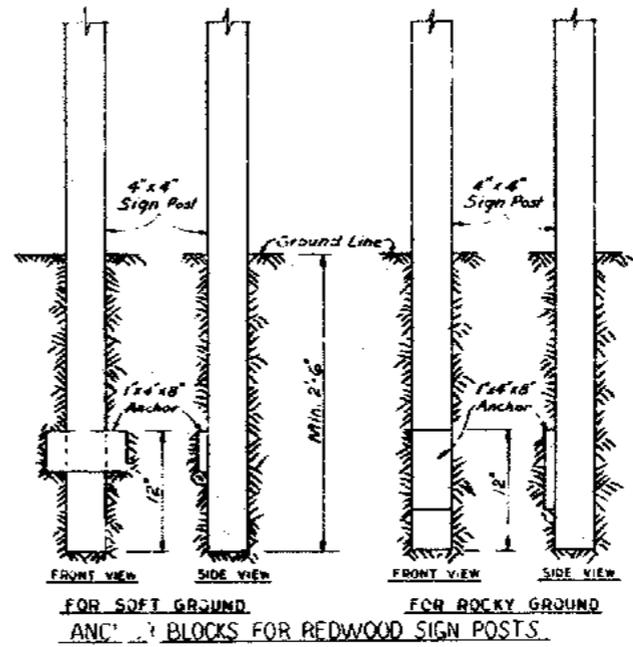
PLAT.
 Scale: 1" = 50'

NOTES

1. Signs are available at Division Supply or the East Bay Storage Yard.
2. Specified hardware is available from the Division of Highways, Service and Supply Department.
3. Wooden posts are to be Redwood, Construction Heart Grade, S4S.
4. Wooden posts shall be painted with one coat of "Primer For Timber", State Specification No. 52-G-01. The wood post supporting the warning sign shall be painted yellow with one coat of "Yellow Paint For Wood And Metal", State Specification No. 58-G-08. The wooden posts supporting the regulatory signs shall be painted white with one coat of "White Finish Coat For Wood", State Specification No. 58-G-06. The bottom of all wooden posts to a distance of one foot above the ground shall be painted with "Black Enamel For Wood Or Metal Signposts", State Specification No. 58-G-09.



TYPICAL SIGN INSTALLATION



FOR SOFT GROUND AND FOR ROCKY GROUND
 ANCHOR BLOCKS FOR REDWOOD SIGN POSTS.

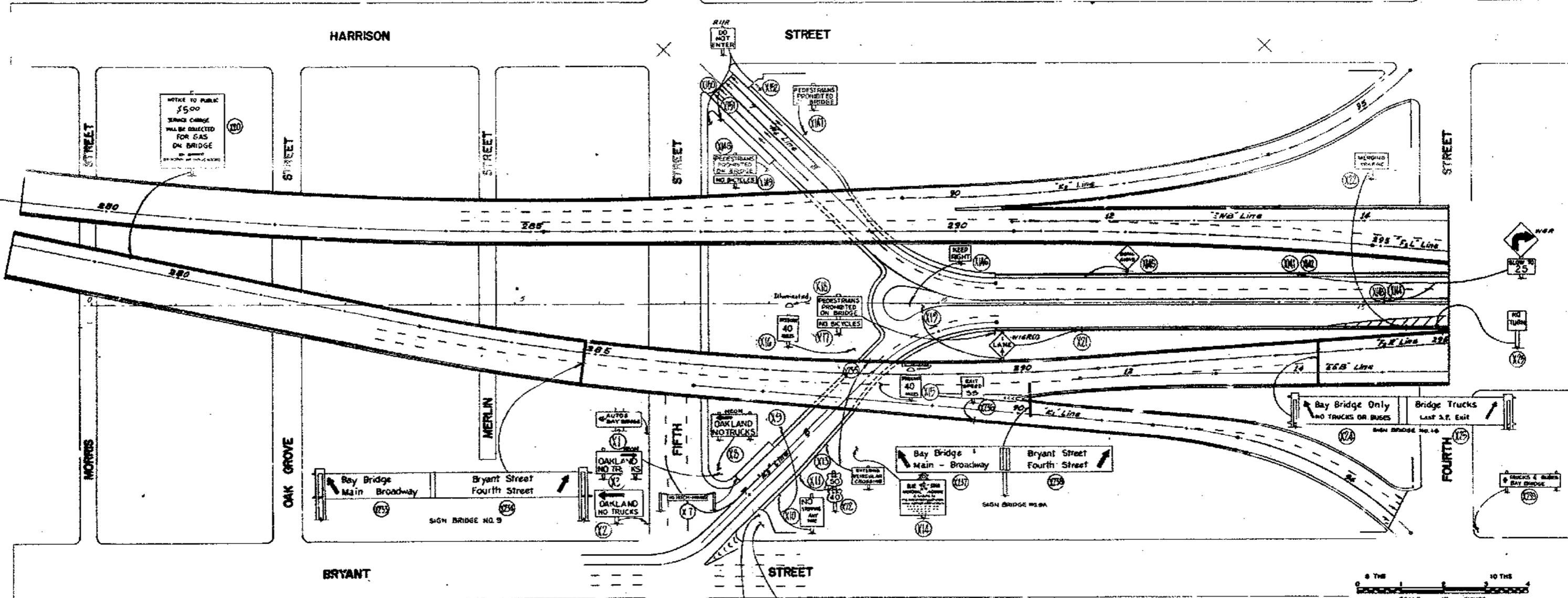
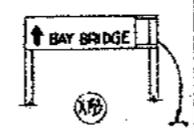
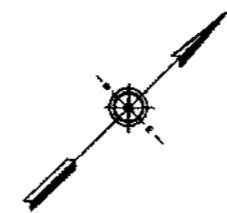
- Notes
1. This drawing was previously numbered P-4033-329.
 2. Work shown on this drawing was performed by maintenance personnel of the Operations Unit.
 3. New signs W53R and R1OR were purchased under sub-purchase order No. 3097, Jan. 14, 1964. Sign R1GR was available at the east bay storage warehouse and sign R1R was temporarily mounted on a barricade at SFOBB Sta. 387E prior to this work.



STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF BAY TOLL CROSSINGS	
SAN FRANCISCO OAKLAND BAY BRIDGE RECONSTRUCTION DECK SURFACING	
SERVICE ROAD SIGNING - STA. 232+00 TO 291+00	
DATE: 12-25-64	BY: JLB
REVISION:	CHK: JLB
SCALE AS NOTED	SHEET NO. 57
BRIDGE: 34-04	DRAWING: N-4033-33

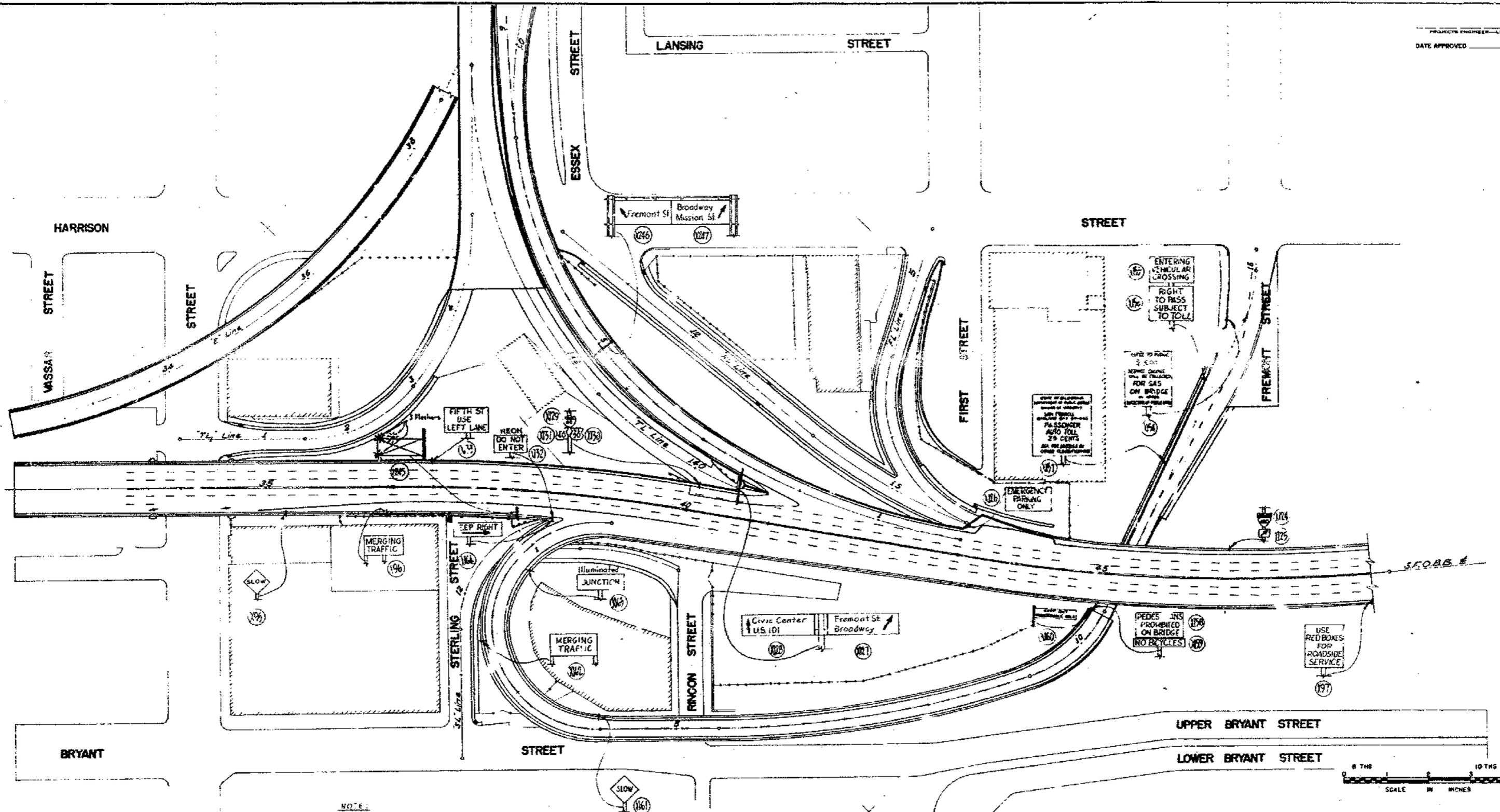
Notes: When two signs are mounted on the same post, the bottom of the upper sign shall be at least 5 feet above the edge of the pavement.

TYPICAL LOCATION



*Note: This sheet shows the existing signing prior to the commencement of contract 40253
Date: 9/1/68 Checked by R.M.I.*

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS			
SAN FRANCISCO-OAKLAND BAY BRIDGE			
RECONSTRUCTION			
DECK SURFACING			
EXISTING SIGNING STA. 0+00 TO 16+00			
SCALE 1" = 50'	BRIDGE	SHEET NO. 7A	DRAWING 16-10253-7



NOTE:
CALL TOW CAR
SERVICE CALL BOX REPEATED

The construction set shown on plan is to be used as shown.

Note: This sheet shows the existing signing prior to commencement of Contract 40003.
Date: 9/1/64 Check By: R.M.L.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

EXISTING SIGNING U.D. STA. 32+00 TO 48+20

SCALE 1" = 50' BRIDGE SHEET NO. 24 DRAWING M-4033-9

SECOND

HARRISON

VASSAR STREET

STREET

ESSEX STREET

LANSING STREET

STREET

FIRST STREET

FREMONT STREET

STERLING STREET

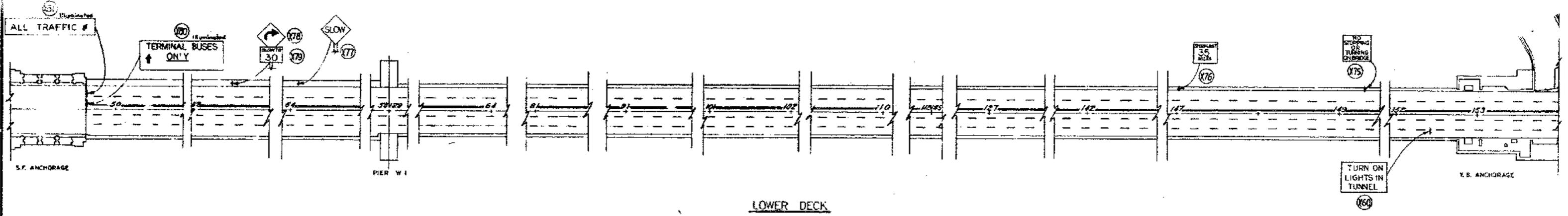
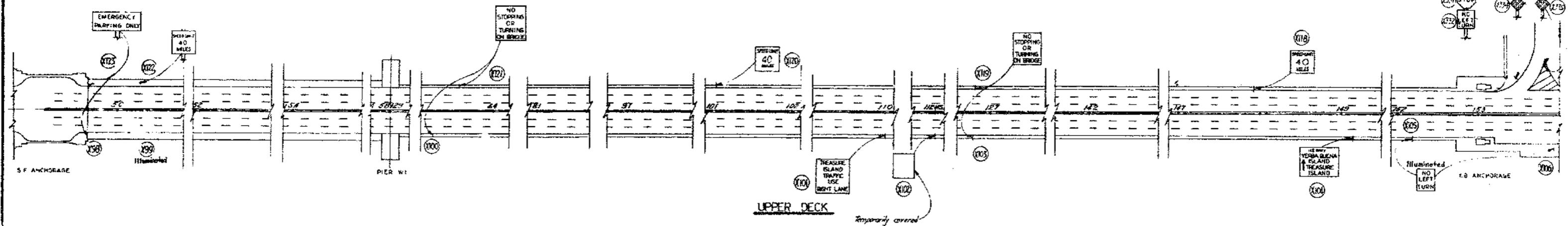
RINCON STREET

UPPER BRYANT STREET

LOWER BRYANT STREET

BRYANT

STREET

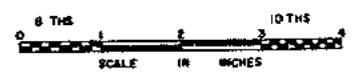
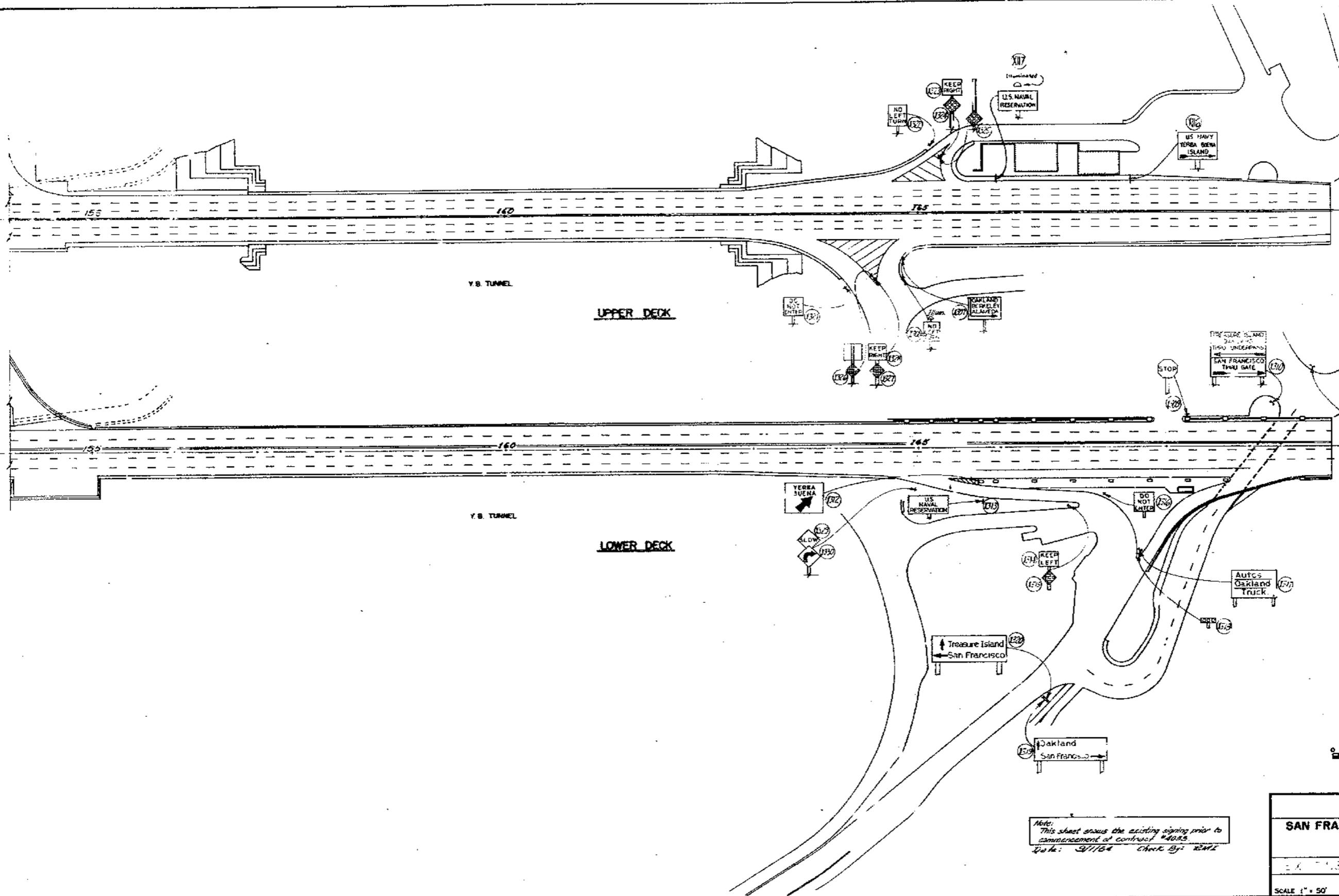


NOTE:
 
 These signs are not shown on plan.
 See Sign Removal Schedule 7



Note
 This sheet shows the existing signing prior
 to the commencement of contract 4035.
 Date: 9/1/64 Check By: EML

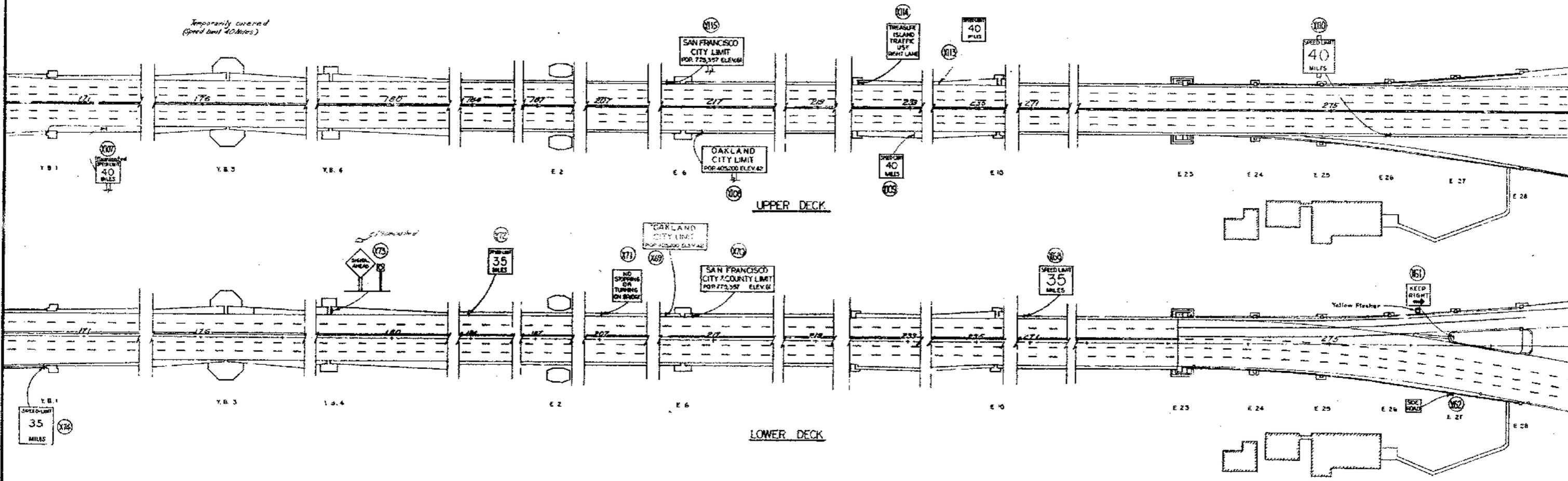
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS			
SAN FRANCISCO - OAKLAND BAY BRIDGE RECONSTRUCTION DECK SURFACING			
EXISTING SIGNING STA. 48+20 TO 154+00			
SCALE	BRIDGE	SHEET NO. 11A	DRAWING M-4035-11



Note:
This sheet shows the existing signing prior to
commencement of contract #4035.
Date: 9/7/54 Check By: RML

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS			
SAN FRANCISCO - OAKLAND BAY BRIDGE RECONSTRUCTION DECK SURFACING			
EX-115-A-111-7A-24			
SCALE 1" = 50'	BRIDGE 33-25 34-03	SHEET No. 12A	DRAWING # 4035-12

DESIGN AND DETAILS REVIEWED BY _____



APPROVAL AUTHORIZED BY _____

DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
PROJECT ENGINEER	DATE

NOTE:



These signs are not shown on plan.
See Sign Removal Schedule 7

Note:
This sheet shows the existing signing prior
to the commencement of work on 1/4/58.
Date: 9/1/64 Check by: BML



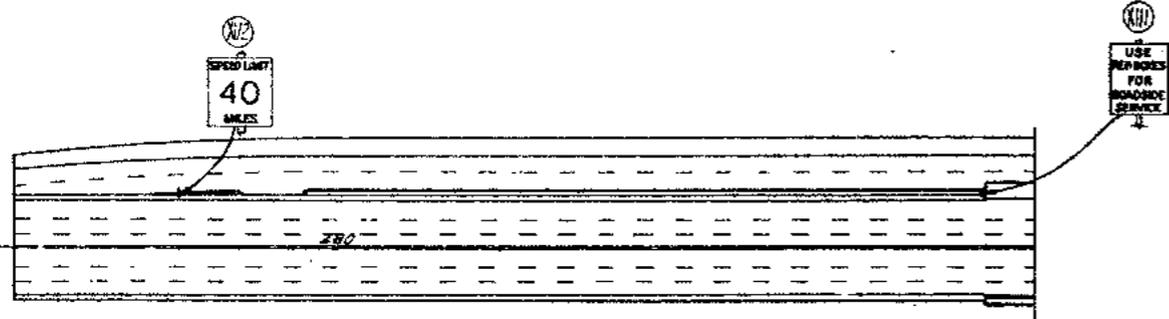
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL, CONSTRUCTION

**SAN FRANCISCO - OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING**

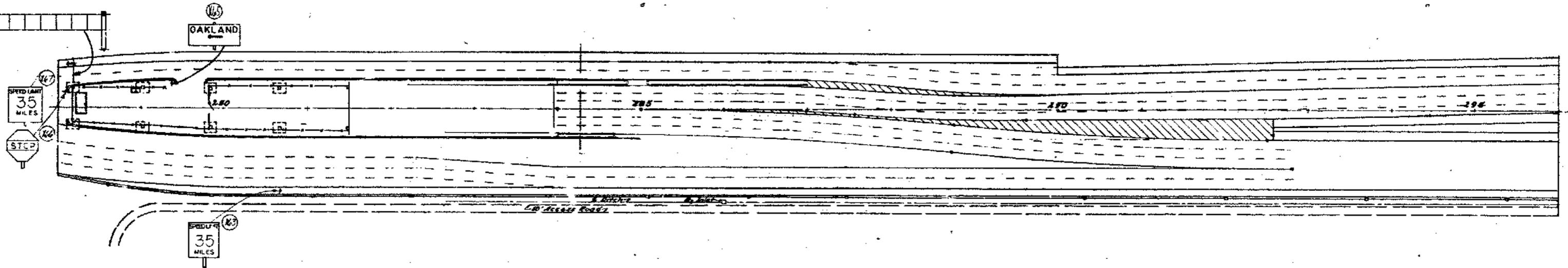
EXISTING SIGNING STA. 170+00 TO 278+00

SCALE 1" = 50'	BRIDGE 24-03	SHEET NO. 13A	DRAWING M-4033-13
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REVISION	A	B	C	D	E	F	TRACED
DATE							



WESTBOUND LANES



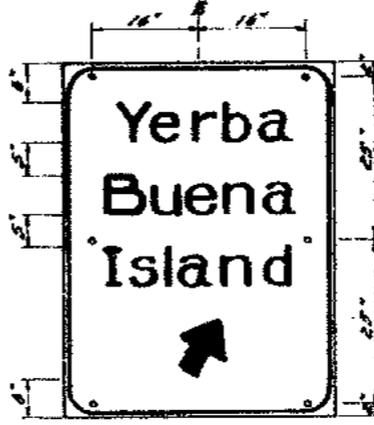
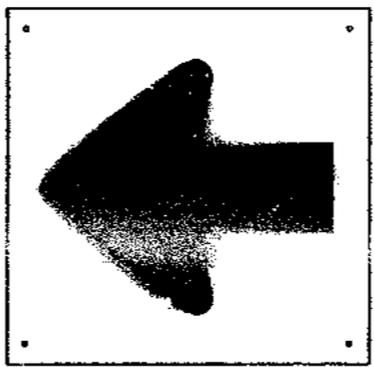
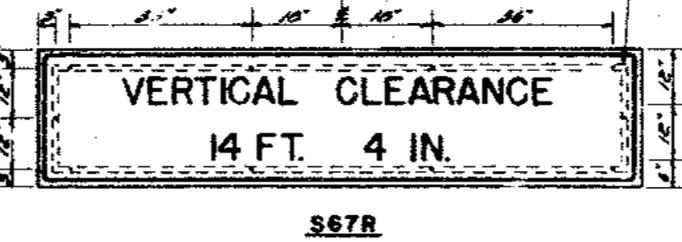
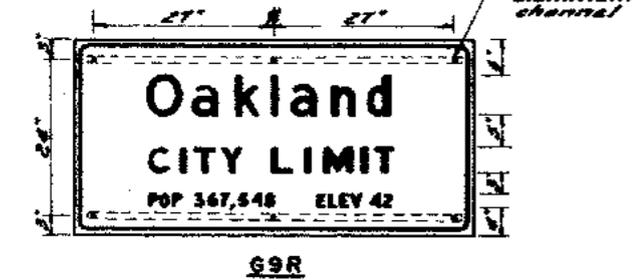
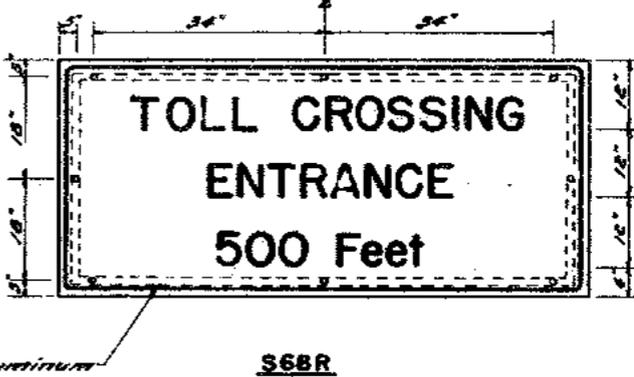
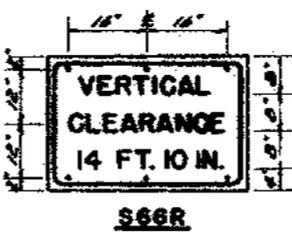
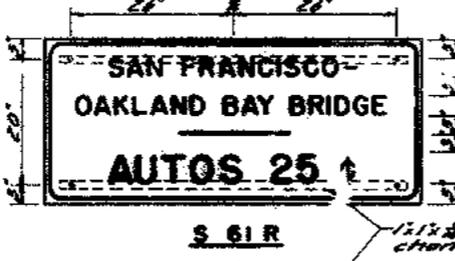
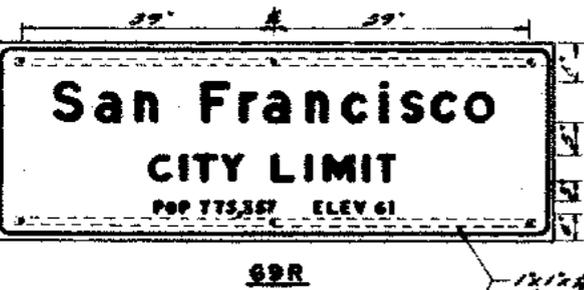
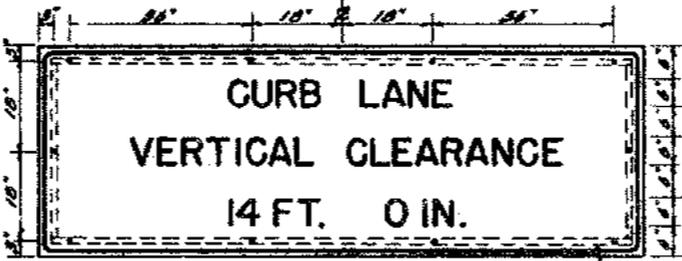
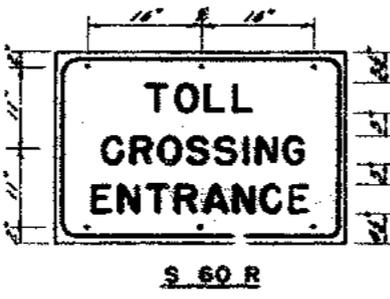
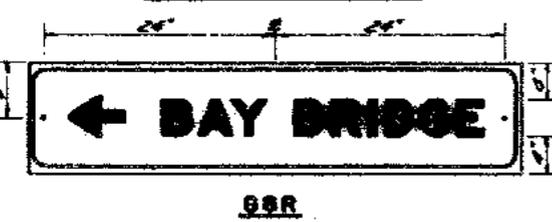
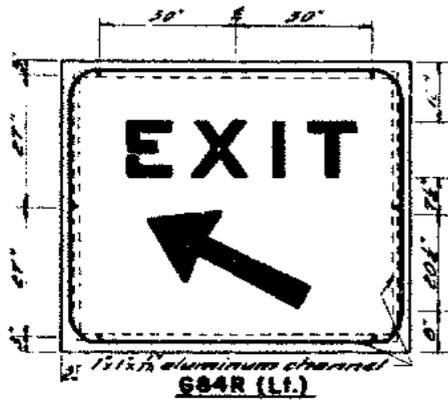
WEST-AND-EASTBOUND LANES



Note:
This sheet shows the existing signing prior to
the commencement of Contract #40003.
Date: 9/11/04 Check By: RMI

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS			
SAN FRANCISCO - OAKLAND BAY BRIDGE RECONSTRUCTION			
EXISTING SIGNING STA. 278+00 TO 296+00			
SCALE 1" = 60'	BRIDGE 33-25 34-03 34-04	SHEET No. 14A	DRAWING No. 4033-14

DESIGNED AND DRAWN BY _____



Sign No.	Dimensions	Letter Size & Series	Arrow	Material	Color	Reflector	Back	Order
S 63 R	18" x 18"	1 1/2" x 1 1/2"	Refer to Std. Arrow	Aluminum	Green	White	White	White
S 64 R	18" x 18"	1 1/2" x 1 1/2"	Refer to Std. Arrow	Aluminum	Green	White	White	White
S 64 R (L.)	30" x 30"	1 1/2" x 1 1/2"	Refer to Std. Arrow	Aluminum	Green	White	White	White
S 64 R Special	18" x 18"	1 1/2" x 1 1/2"	Refer to Std. Arrow	Aluminum	Green	White	White	White
S 60 R	26" x 26"	1 1/2" x 1 1/2"	Refer to Std. Arrow	Aluminum	Green	White	White	White
S 65 R	26" x 36"	1 1/2" x 1 1/2"	Refer to Std. Arrow	Aluminum	Green	White	White	White
S 61 R	26" x 26"	1 1/2" x 1 1/2"	Refer to Std. Arrow	Aluminum	Green	White	White	White
S 62 R	26" x 26"	1 1/2" x 1 1/2"	Refer to Std. Arrow	Aluminum	Green	White	White	White
S 66 R	18" x 18"	1 1/2" x 1 1/2"	Refer to Std. Arrow	Aluminum	Green	White	White	White
S 67 R	36" x 26"	1 1/2" x 1 1/2"	Refer to Std. Arrow	Aluminum	Green	White	White	White
S 68 R	36" x 36"	1 1/2" x 1 1/2"	Refer to Std. Arrow	Aluminum	Green	White	White	White
S 69 R	18" x 18"	1 1/2" x 1 1/2"	Refer to Std. Arrow	Aluminum	Green	White	White	White

① Stroke width .02" per inch of letter height.
② Use reflective sheeting.

- NOTES**
- All signs shall be of porcelain enameled aluminum.
 - Shop drawings shall be furnished to the Division of San Francisco Bay Toll Crossings for approval before fabrication.
 - For letters see "Standard Alphabet for Highway Signs," Department of Commerce, Bureau of Public Roads.
 - Signs shall conform to State of California, Department of Public Works, Division of Highways, Service and Supply Specifications.



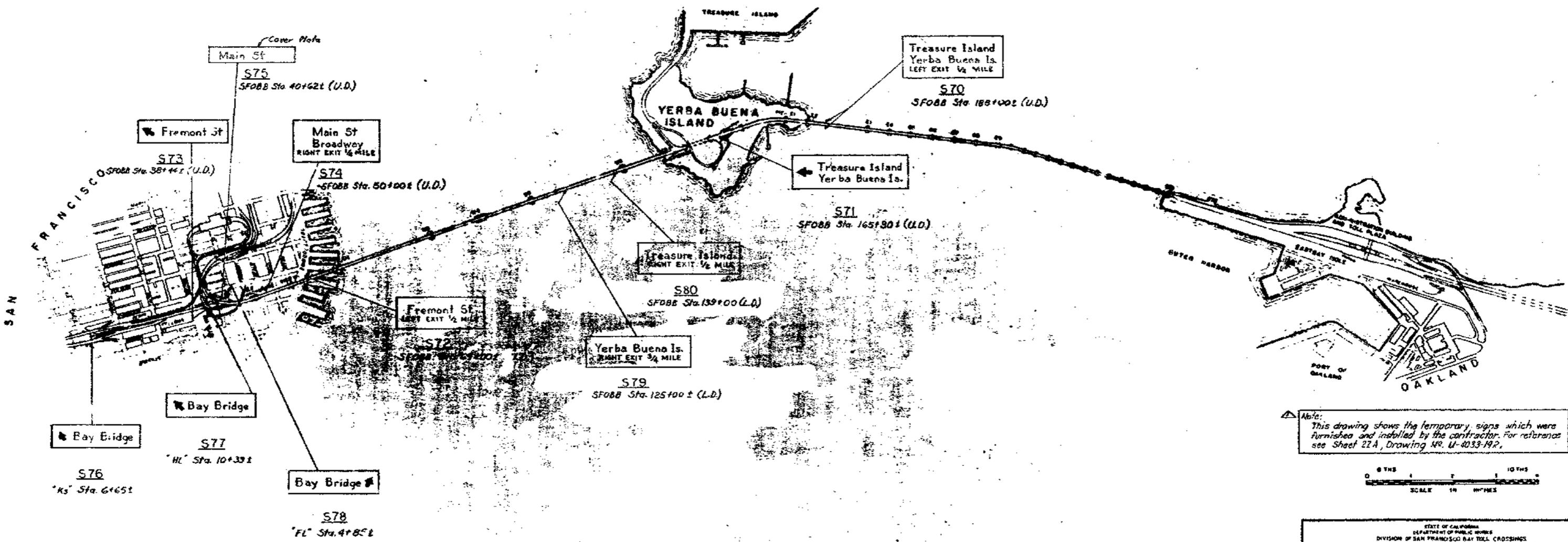
MARK	DATE	DESCRIPTION	BY	CHK.
△	2.1.64	As built with revisions	OB	EMZ
△	7.2.63	Added sign S 69 R.	EMZ	EMZ

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO - OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING
SPECIAL SIGNS**

SCALE NONE BRIDGE 34-03 SHEET NO. 16A DRAWING M-4033-16R

- NOTES**
1. Sign locations shown are approximate only. Exact locations will be determined by the Engineer to suit field conditions.
 2. All signs shall be illuminated.



Note:
 This drawing shows the temporary signs which were furnished and installed by the contractor. For reference see Sheet 22A, Drawing No. U-4033-192.



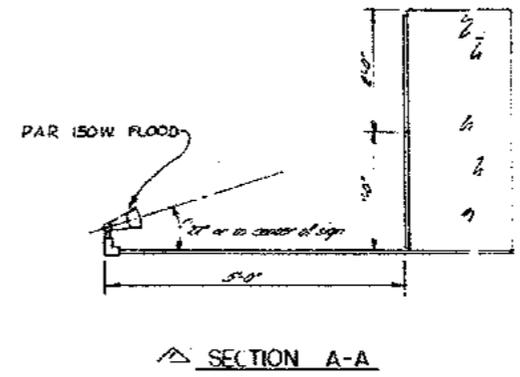
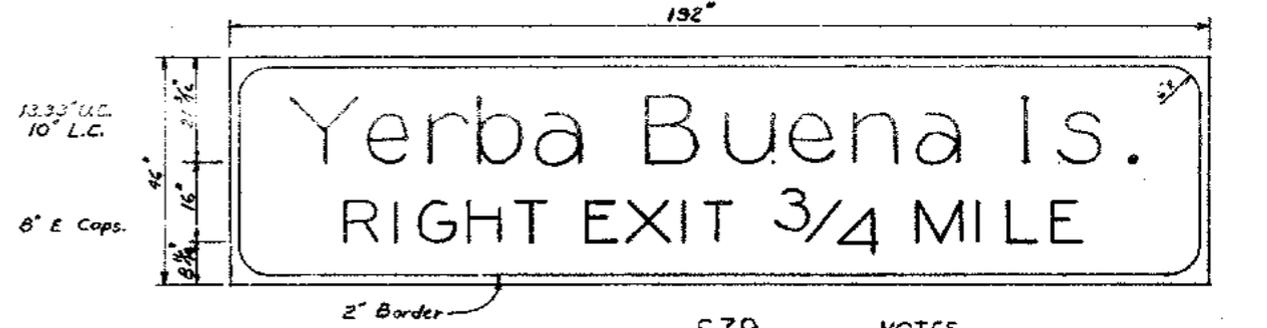
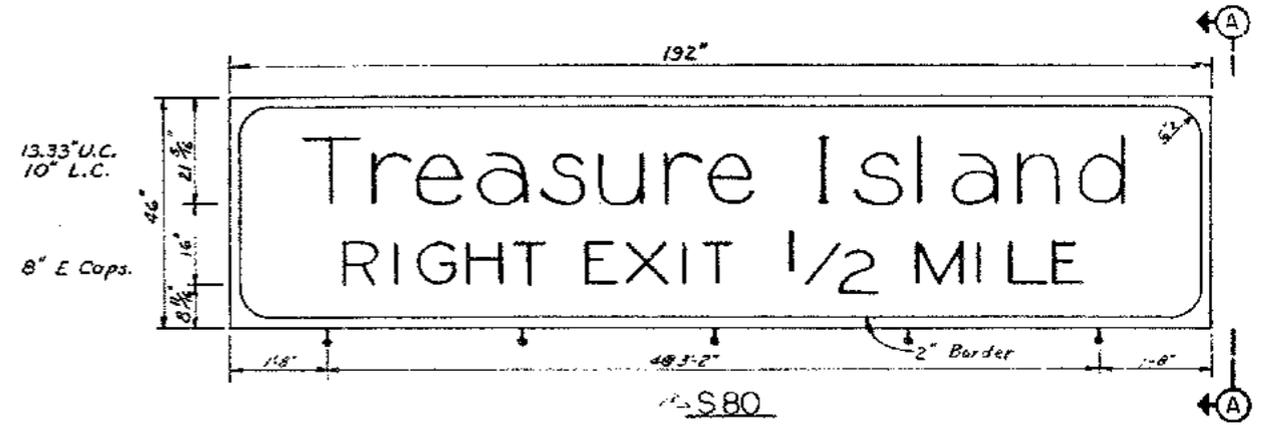
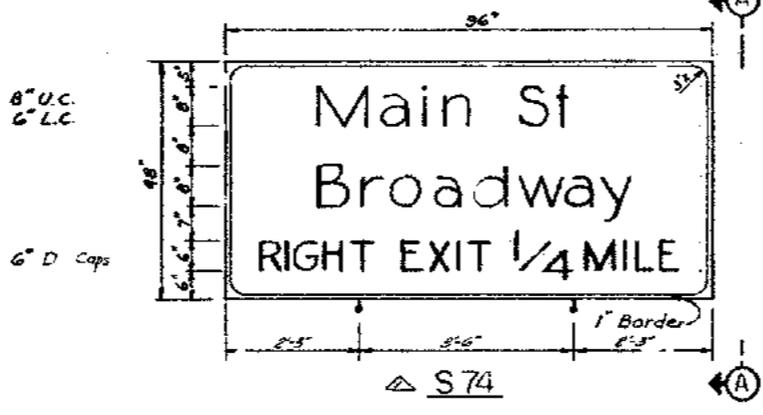
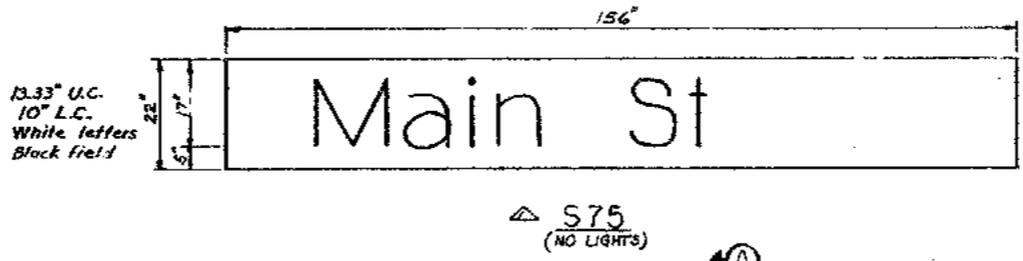
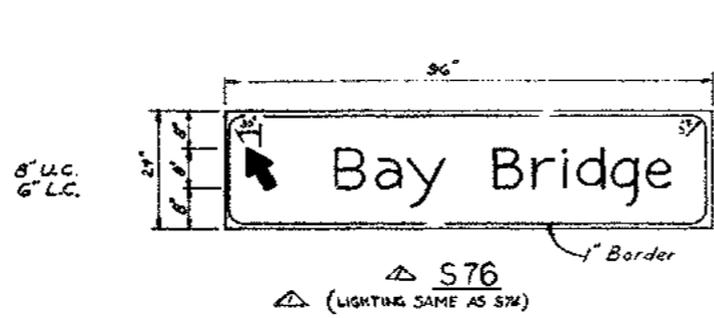
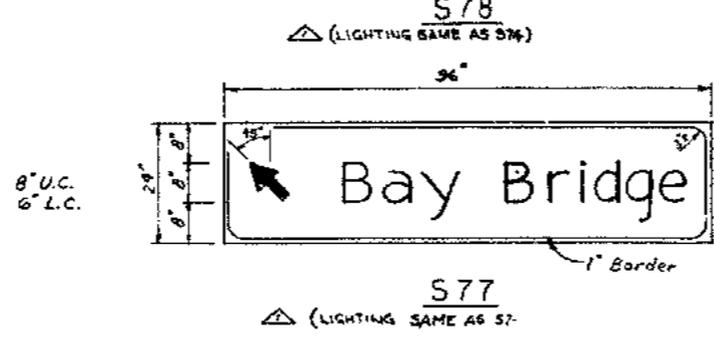
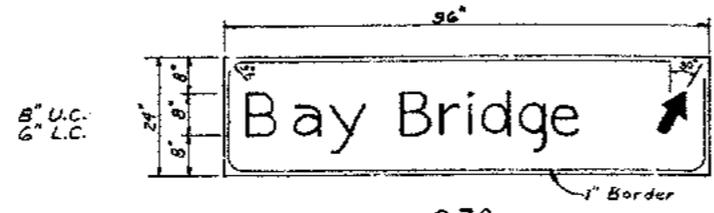
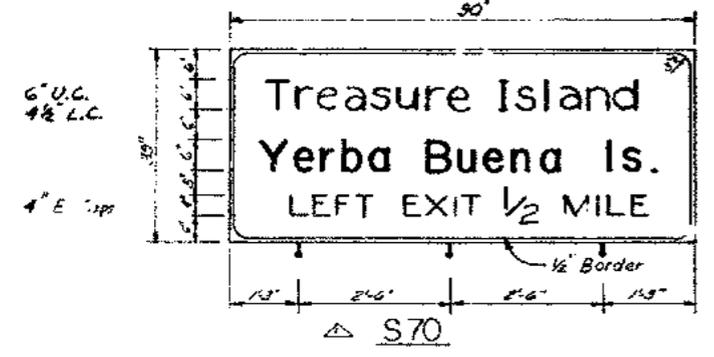
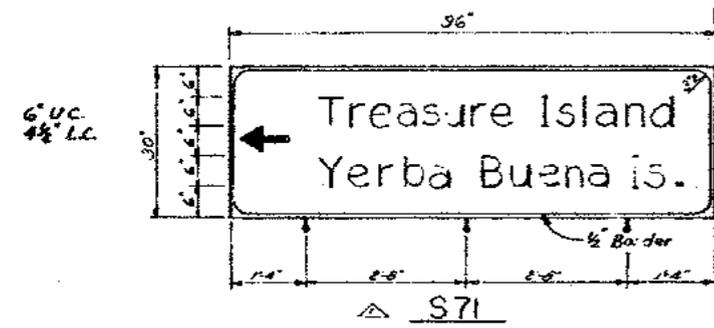
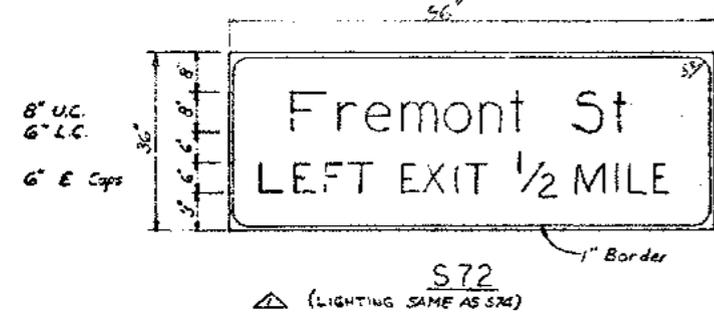
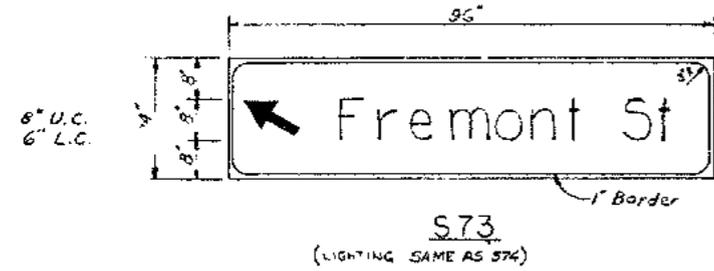
STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS

**SAN FRANCISCO-OAKLAND BAY BRIDGE
 RECONSTRUCTION
 DECK SURFACING**

TEMPORARY SIGNS-LOCATION PLAN

SCALE NO SCALE BRIDGE SHEET NO 21A DRAWING NO 4033-202

MARK	DATE	DESCRIPTION	BY	CHK
△	2.1.64	As built with revisions	CB	CHL
		REVISION		



- NOTES**
- For letters see "Standard Alphabet for Highway Signs" Department of Commerce, Bureau of Public Roads. Use series E and D alphabet for capital letters as noted. All upper case letters shall be proportional to series E upper case.
 - All signs shown shall have white letters, arrows and borders on a green background unless otherwise noted.
 - Signs shall be constructed of 5/8" Douglas Fir, Exterior Grade.
 - See location diagram for field installation.
 - One each required for all except signs S70 and S72. Two each required for signs S70 and S72.
 - See sheet number 23 for message layout data.

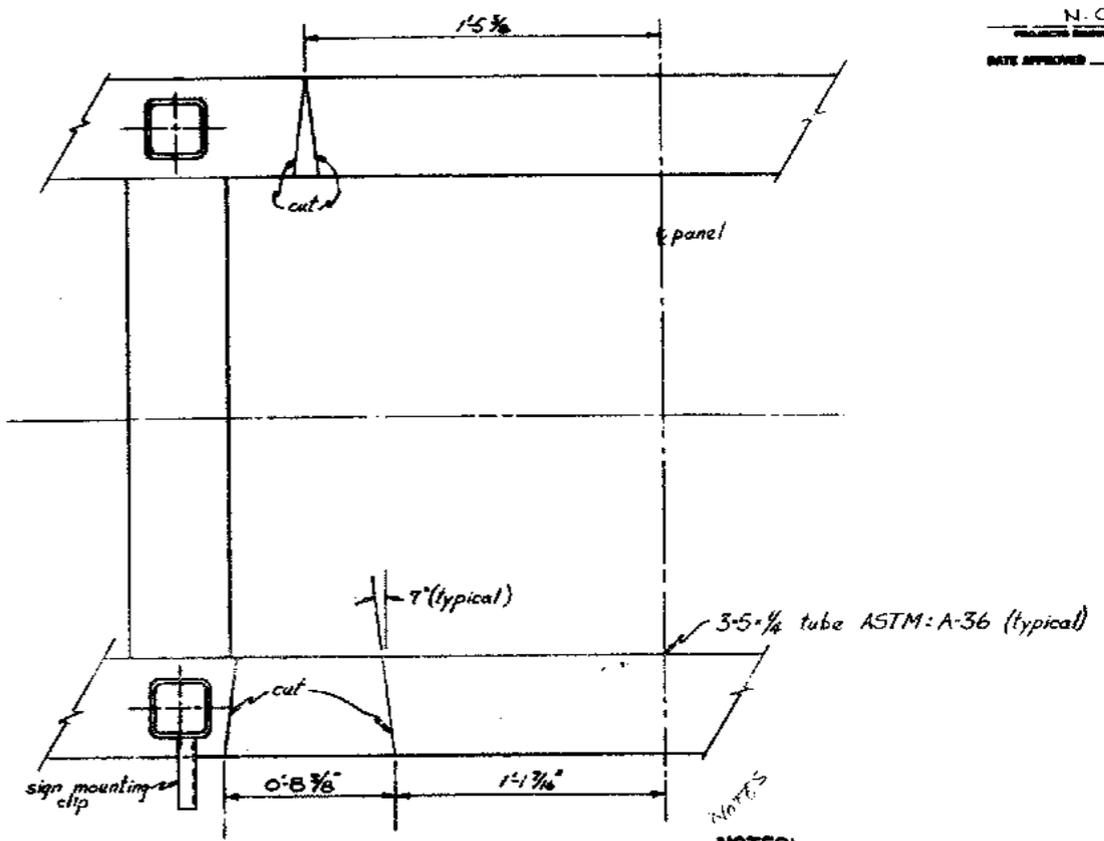
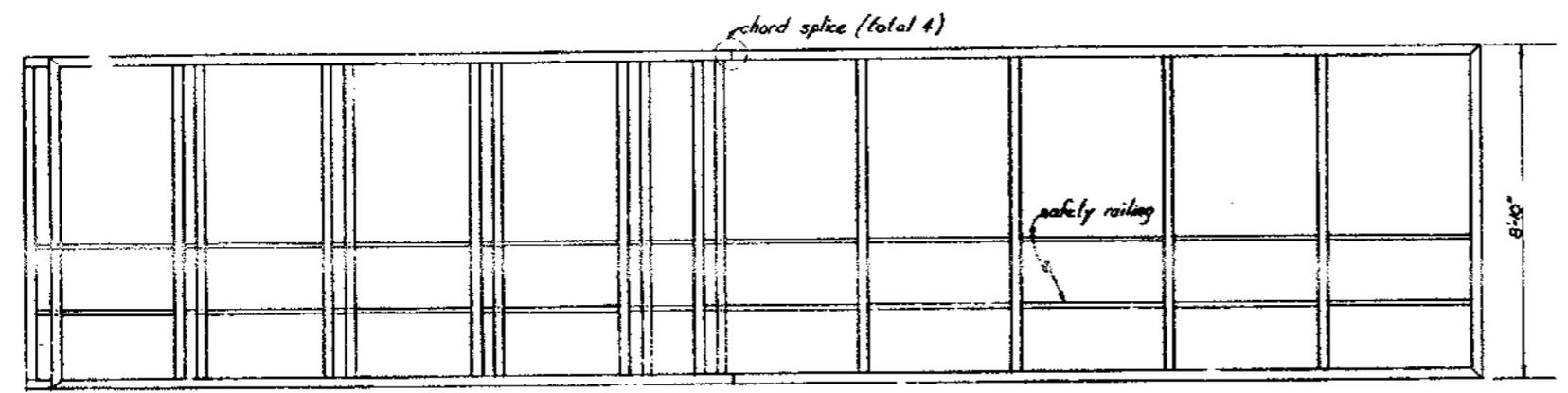
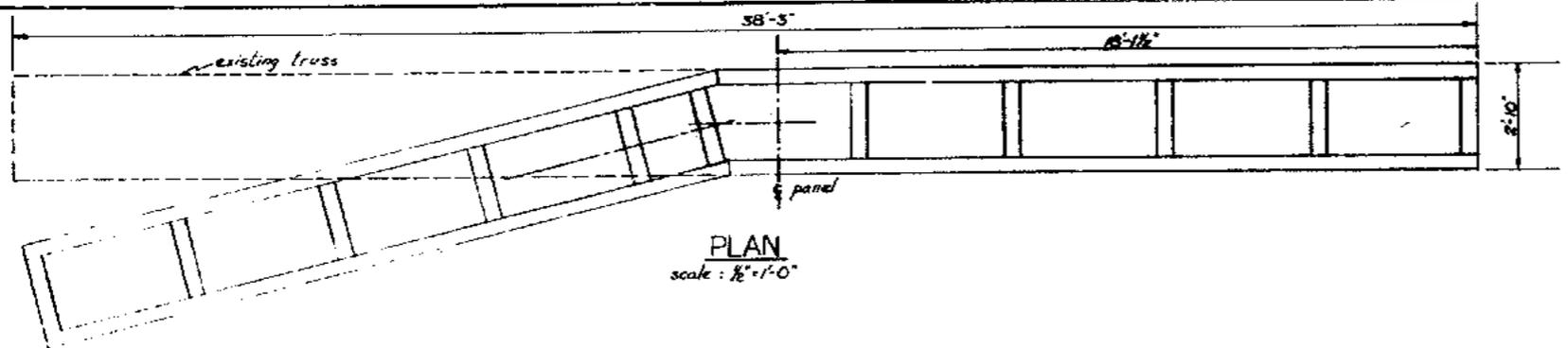
NOTE:
 This drawing shows the temporary signs which were furnished and installed. The Contractor for reference see Sheet P14, drawing M-1023-202.



STATE OF CALIFORNIA		
DEPARTMENT OF PUBLIC WORKS		
DIVISION OF SAN FRANCISCO BAY TOLL CROSSINGS		
SAN FRANCISCO-OAKLAND BAY BRIDGE		
RECONSTRUCTION		
DECK SURFACING		
SPECIAL SIGNS - 7		
SCALE 3/4" = 1'-0"	BRIDGE	SHEET No. 22A
DRAWING 44-1023-202		

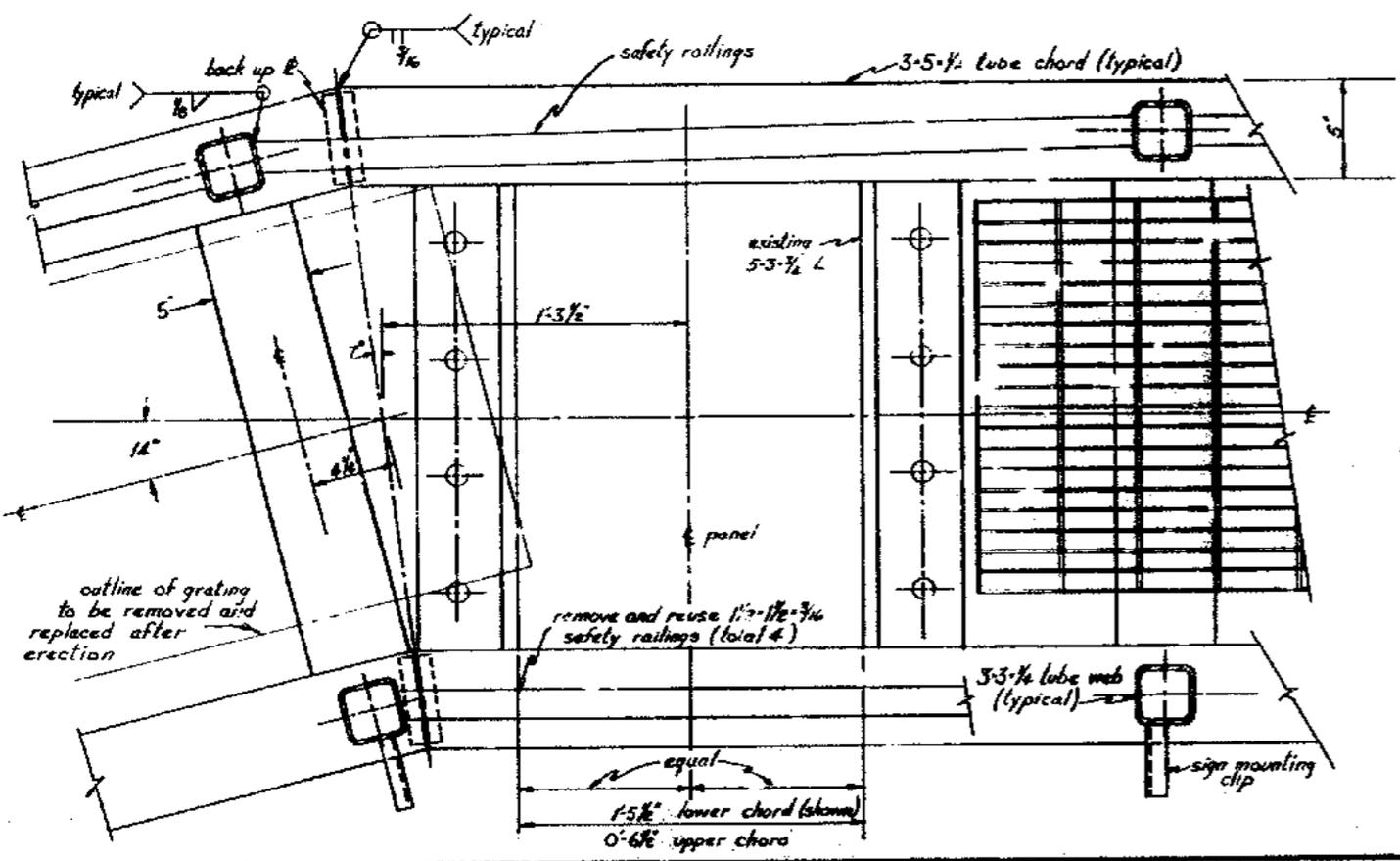
MARK	DATE	DESCRIPTION	BY	CHK
		REVISION		

DESIGN AND CONSTRUCTION BY: [Signature]



NOTES:

1. The work shall consist of altering the sign truss as follows:
 - A. Remove the grating section shown (6'-9 1/2" long) to be replaced after truss is erected.
 - B. Remove the four fixed safety railings at the central panel.
 - C. Cut the four 3'-5 1/2" tube chord members as shown.
 - D. Prepare and butt weld the four chord members at the new position as shown.
 - E. Fit and weld the four safety railings.
 - F. Repair galvanizing and paint.
2. Care shall be taken to retain the existing sign truss camber.
3. Approximate weight of truss is 5000 lbs.



NO.	DATE	DESCRIPTION	BY	CHK
1		As built without revisions	LLR	RMW

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
OFFICE OF THE REGIONAL DIRECTOR
SAN FRANCISCO-OAKLAND BAY BRIDGE
RECONSTRUCTION
DECK SURFACING
SIGN TRUSS U7 ALTERATIONS

33-25
34-25
SCALE AS SHOWN
SHEET No. 26A
DRAWING No. 4033-30

