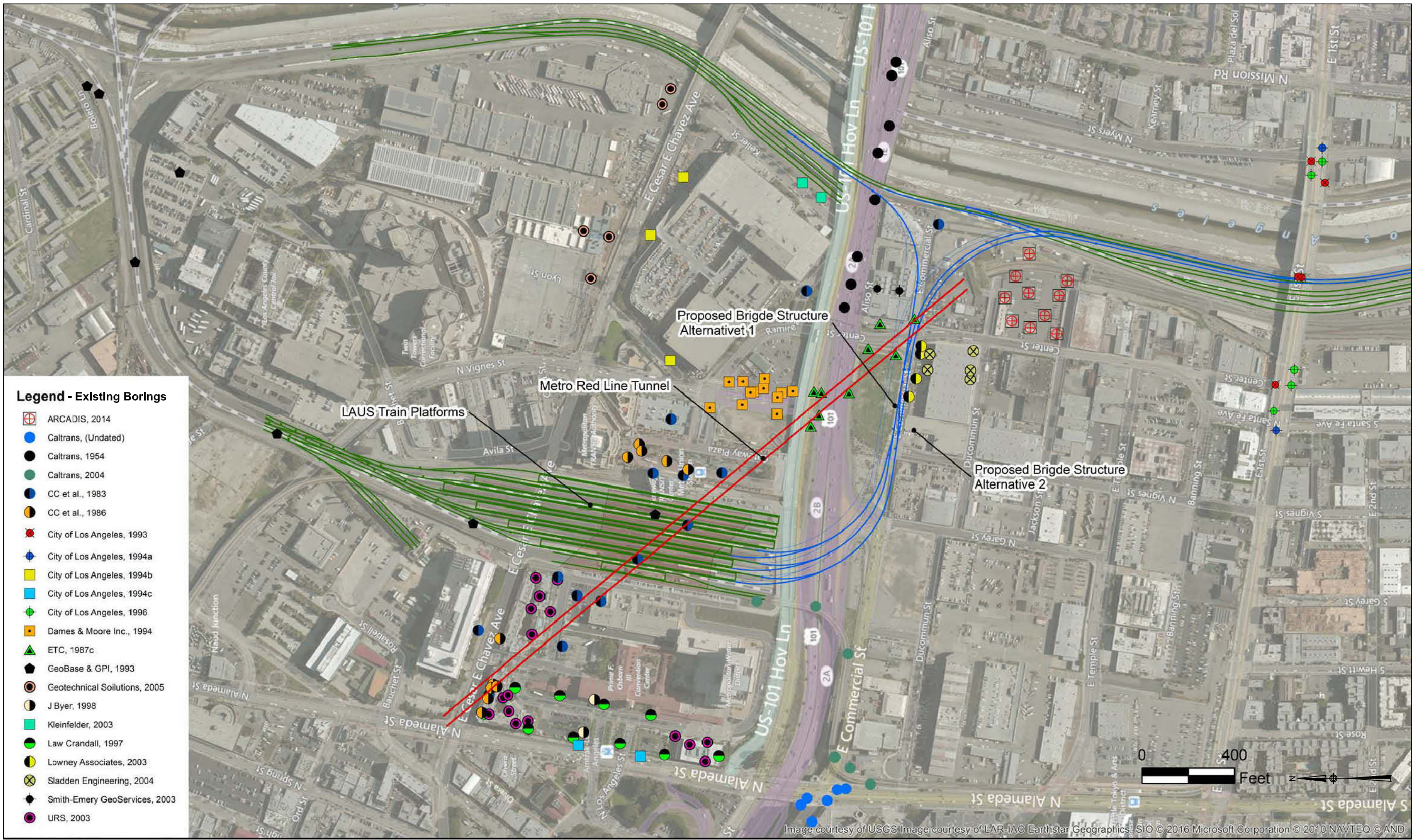




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## Appendix A: Exhibits

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**LINK UNION STATION**  
EXISTING DATA - EXHIBIT 4-1

**SCALE AS SHOWN**  
**DATE: 06-12-2016**

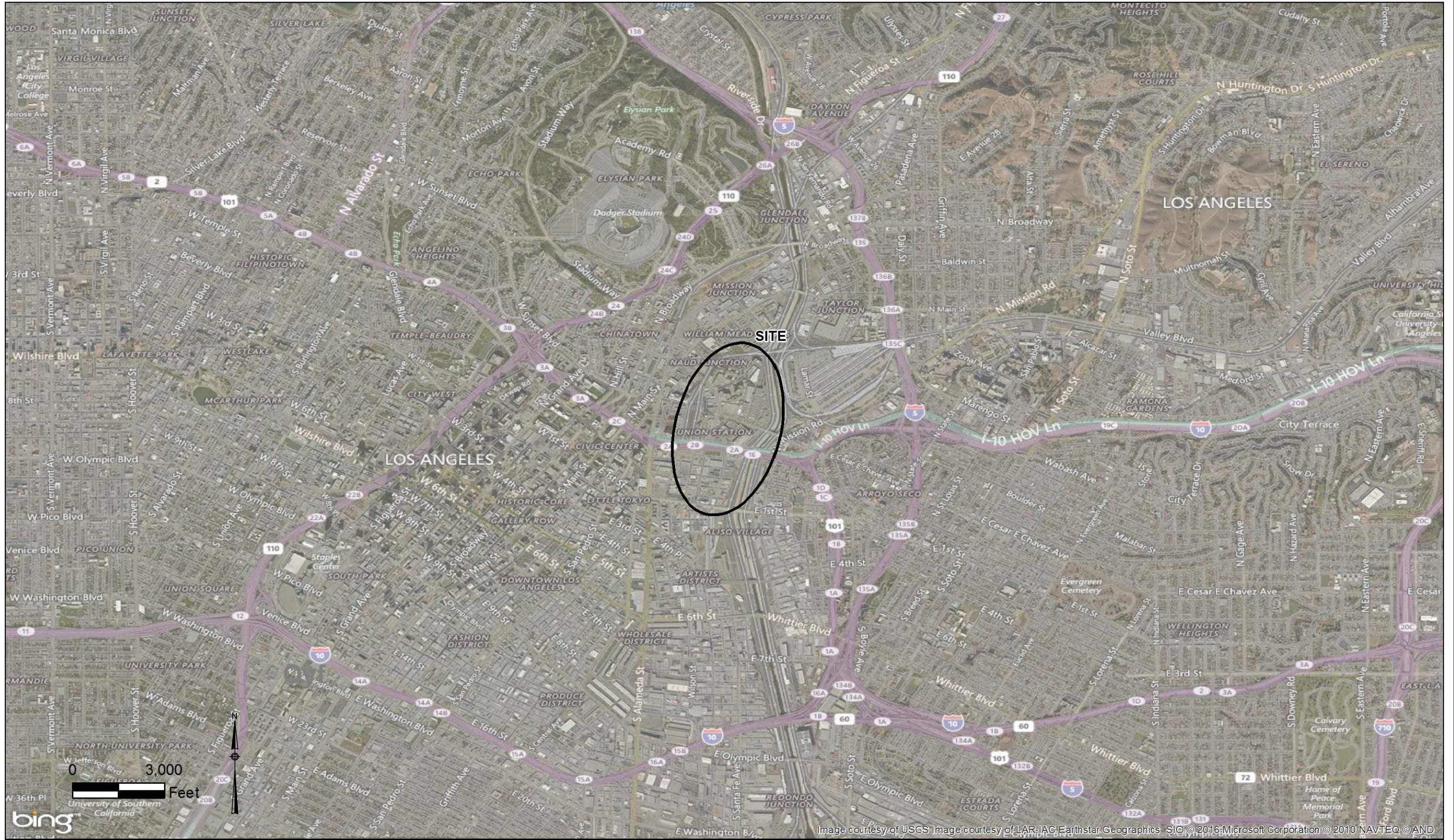


Image courtesy of USGS Image courtesy of LAR-IAC Earthstar Geographics SIO © 2016 Microsoft Corporation © 2010 NAVTEQ © AND



**LINK UNION STATION**  
**SITE LOCATION MAP - EXHIBIT 5-1**

**SCALE AS SHOWN**  
**DATE: 06-12-2016**



Photo No. 1. False tunnel sets at the South Tunnel Portal of YR Tunnel (south of LAUS) with tunnel shield and mucking machine in the background. Photo taken: 01/30/90. Source: SCRTRD, 1990a.



Photo No. 2. False tunnel sets and the jacking frame and struts for pushing the shield off of at the South Tunnel Portal (south of LAUS). Photo taken: 01/30/90. Source: SCRTRD, 1990a.



Photo No. 3. Mezzanine floor slab in place with column reinforcement steel protruding. The reinforcement for lift No. 4 of mezzanine floor is being placed in the foreground. Photo Taken: 01/30/90. Source: SCRTRD, 1990a.

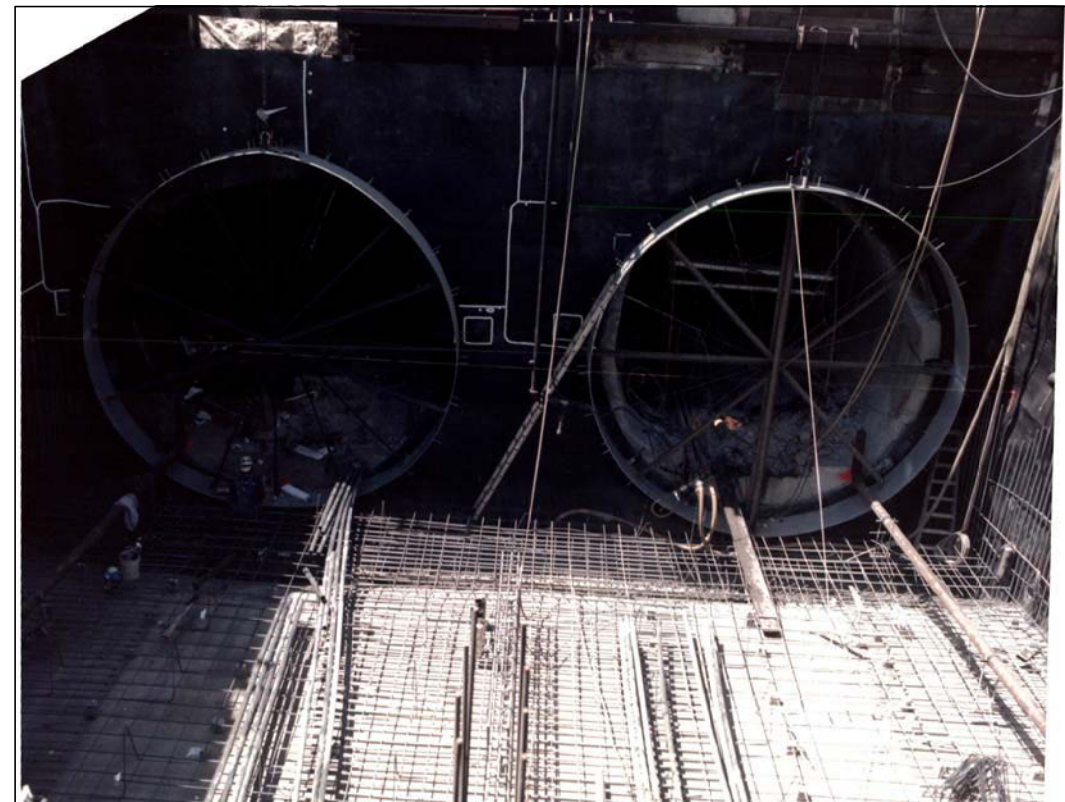


Photo No. 4. Reinforcement steel being placed in the closing slab of box structure at the south tunnel portals. Photo taken: 07/30/90. Source: SCRTRD, 1990a.



**LINK UNION STATION**  
PHOTOGRAPHS - EXHIBIT 5-2

**SCALE: AS SHOWN**  
**DATE: 06-12-2016**



NEG NO 8 ROLL NO \_\_\_\_\_  
 PICT NO 9  
 SCRTD - M.O.S. 1  
 PROJECT Main Yard and Shops -  
Yard Leads  
 CONTRACT NO A-130  
 DATE 1-18-90  
 TAKEN BY D. EDGAR  
 LOCATION STA. 4R 98400 - TRACTION  
POWER SUBSTATION.  
 COMMENT PICTURE SHOWS 2'  
BOULDER IN CUT, ENCOUNTERED  
By HAYWOOD -BAKER.



NEG NO 6 ROLL NO \_\_\_\_\_  
 PICT NO 7  
 SCRTD - M.O.S. 1  
 PROJECT Main Yard and Shops -  
Yard Leads  
 CONTRACT NO A-130  
 DATE 1-18-90  
 TAKEN BY D. EDGAR  
 LOCATION STA. 4R 98400 -  
POWER SUBSTATION.  
 COMMENT SENIOR INSPECTOR  
McLACKIE HOLDING MEAS  
SHOWING 4' BOULDER.

Photo No. 5. Boulders encountered at the Main Yard and Shops (currently LAUS). Photo taken: 01/18/90. Source: SCRTD, 1990b.



Photo No. 6. Interface between the box structure (LAUS area) on the YL side at Sta. 89+7 and the YL Tunnel (south of LAUS). Photo taken: 03/04/90. Source: SCRTD, 1990a.

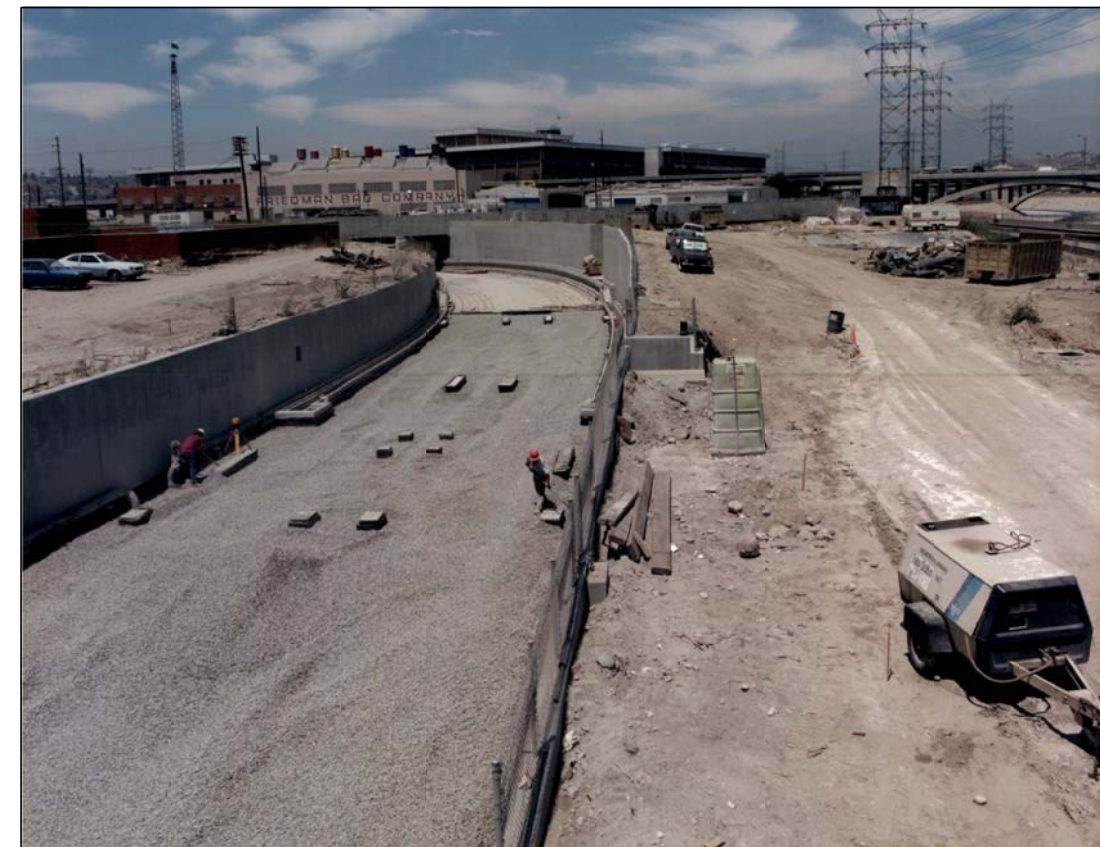


Photo No. 7. Sub-ballast placed on the base of slab in the "U" wall structure area, East Portal Entrance (south of LAUS). Looking north towards LAUS. Photo taken: 07/30/90. Source: SCRTD, 1990a.



**LINK UNION STATION**  
**PHOTOGRAPHS - EXHIBIT 5-3**

**SCALE: AS SHOWN**  
**DATE: 06-12-2016**



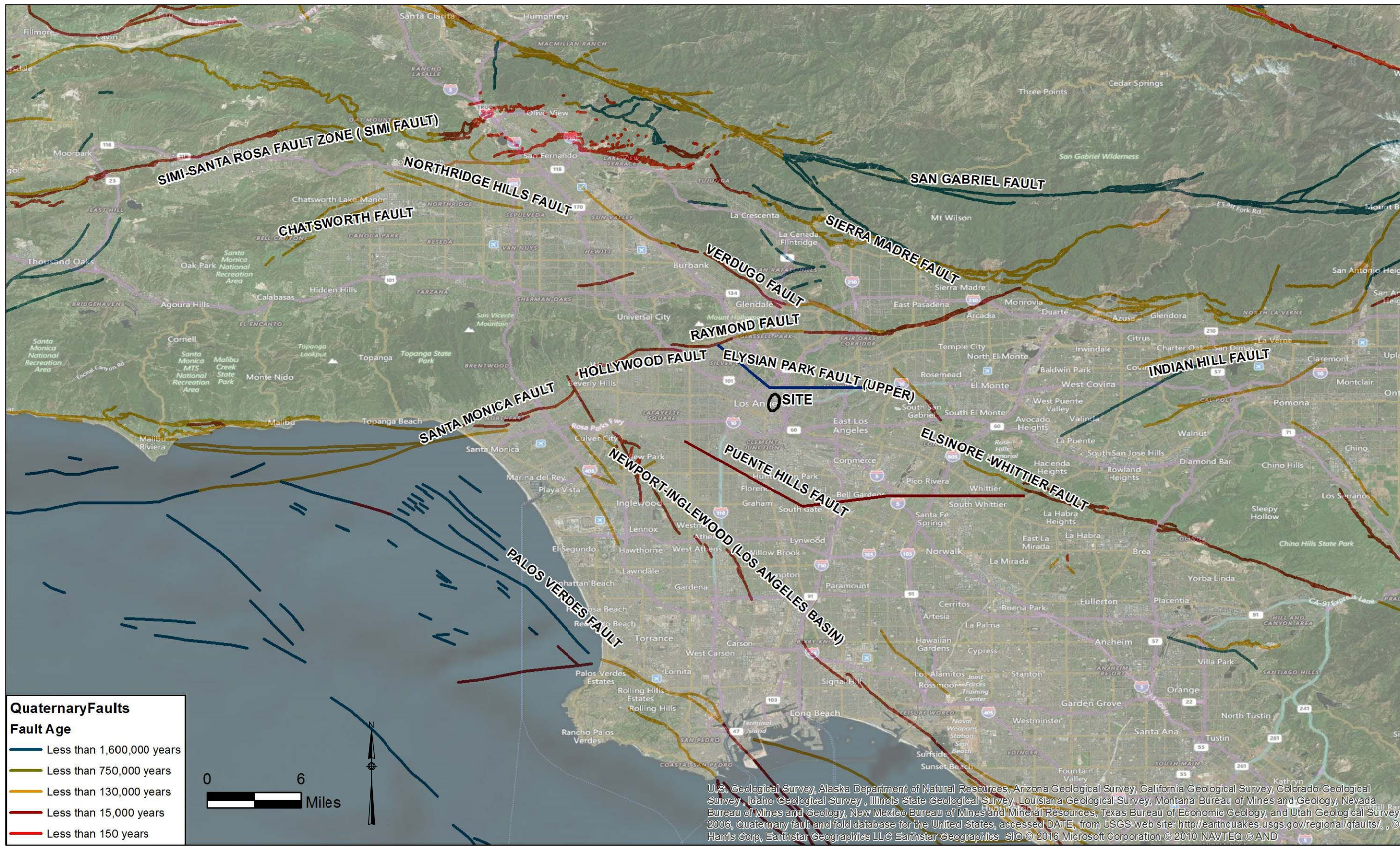
Image courtesy of USGS | Image courtesy of LAR-IAG Earthstar Geographics | SIG © 2016 Microsoft Corporation © 2010 NAVTEQ © AND

|     |  |     |  |                      |
|-----|--|-----|--|----------------------|
| Qyf | <b>Young Alluvial Fan Deposits</b> - unconsolidated to slightly consolidated, undissected to slightly dissected boulder, cobble, gravel, sand, and silt deposits issued from a confined valley or canyon | Qya | <b>Young Alluvial Valley Deposits</b> - unconsolidated to slightly consolidated, undissected to slightly dissected clay, silt, sand, and gravel along stream valleys and alluvial flats of larger rivers | Reference: CGS, 2012 |
| Qof | <b>Old Alluvial Fan Deposits</b> - slightly to moderately consolidated, moderately dissected boulder, cobble, gravel, sand, and silt deposits issued from a confined valley or canyon                    | Qw  | <b>Alluvial Wash Deposits</b> - unconsolidated sandy and gravelly sediment deposited in recently active channels of streams and rivers; may contain loose to moderately loose sand and silty sand        |                      |



**LINK UNION STATION**  
**GEOLOGIC MAP - EXHIBIT 6-1**

**SCALE: AS SHOWN**  
**DATE: 06-12-2016**

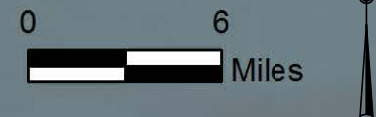


U.S. Geological Survey, Alaska Department of Natural Resources, Arizona Geological Survey, California Geological Survey, Colorado Geological Survey, Idaho Geological Survey, Illinois State Geological Survey, Louisiana Geological Survey, Montana Bureau of Mines and Geology, Nevada Bureau of Mines and Geology, New Mexico Bureau of Mines and Mineral Resources, Texas Bureau of Economic Geology, and Utah Geological Survey, 2006, Quaternary fault and fold database for the United States, accessed DATE, from USGS web site: <http://earthquakes.usgs.gov/regional/qfaults/>, © Harris Corp, Earthstar Geographics LLC Earthstar Geographics SIO © 2016 Microsoft Corporation © 2010 NAVTEQ © AND

Reference: USGS and CGS, 2006, Quaternary Fault and Fold Database for the United States

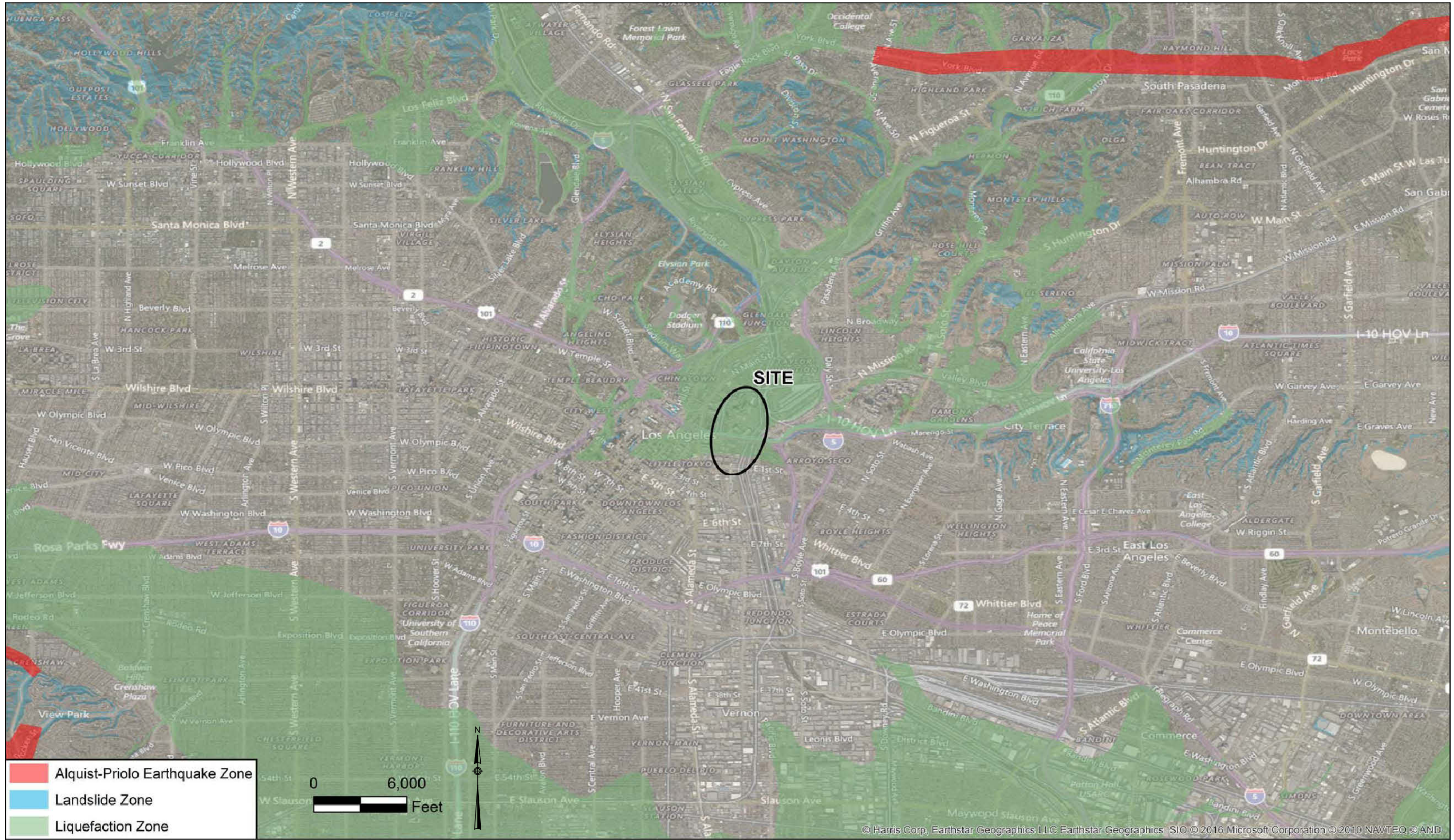
**Quaternary Faults**  
**Fault Age**

- Less than 1,600,000 years
- Less than 750,000 years
- Less than 130,000 years
- Less than 15,000 years
- Less than 150 years

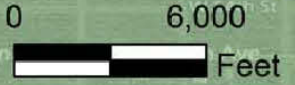


**LINK UNION STATION**  
**FAULT MAP - EXHIBIT 6-2**

**SCALE: AS SHOWN**  
**DATE: 06-12-2016**



- Alquist-Priolo Earthquake Zone
- Landslide Zone
- Liquefaction Zone



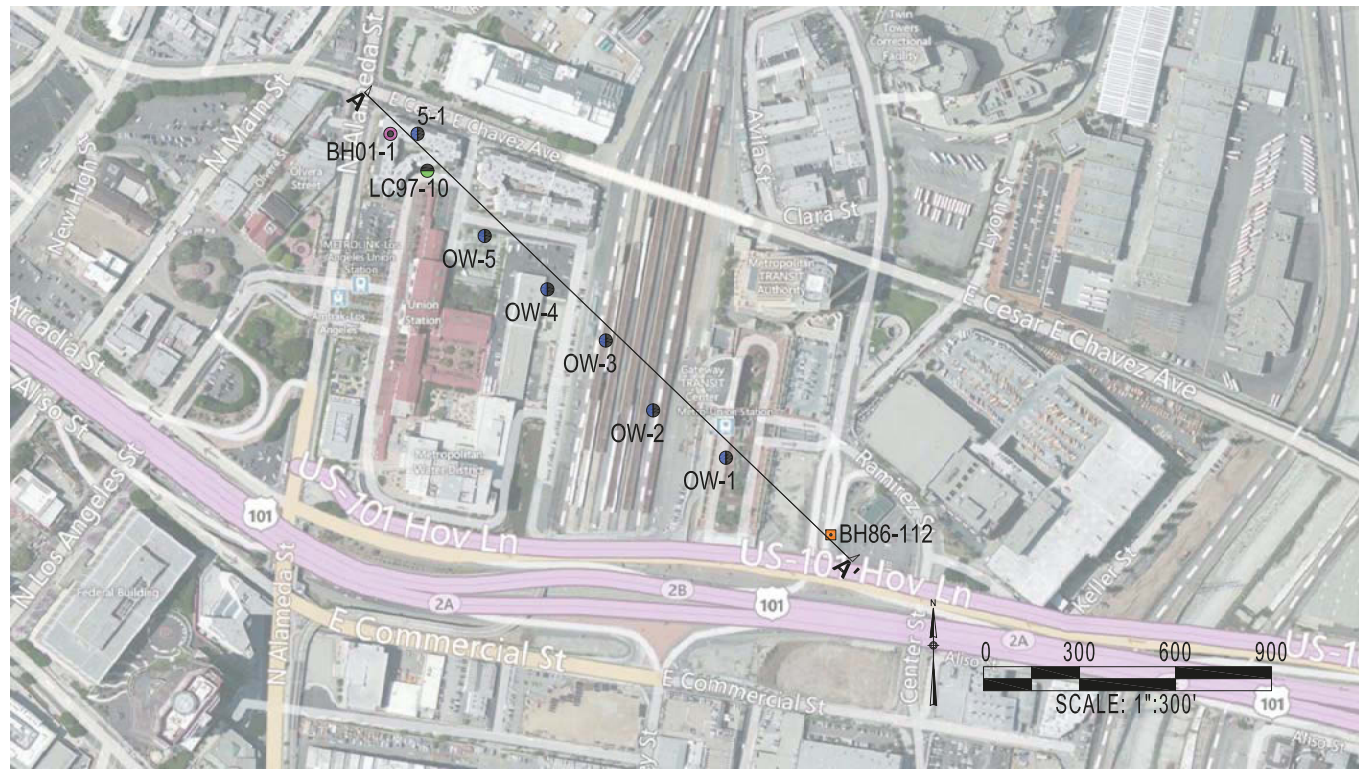
© Harris Corp, Earthstar Geographics LLC Earthstar Geographics SIO © 2016 Microsoft Corporation © 2010 NAVTEQ © AND

References: CDMG, 1977 & CGS, 1999



**LINK UNION STATION**  
HAZARD MAP - EXHIBIT 6-3

**SCALE AS SHOWN**  
**DATE: 06-12-2016**



PLAN VIEW

**Geotechnical Investigations**

- CC et al, 1983
- Dames & Moore Inc., 1994
- Law Crandall, 1997
- URS, 2003

Source for Boring Information: HDR, 2014b, Preliminary Geotechnical Memorandum-Existing Data

**Geologic Units**

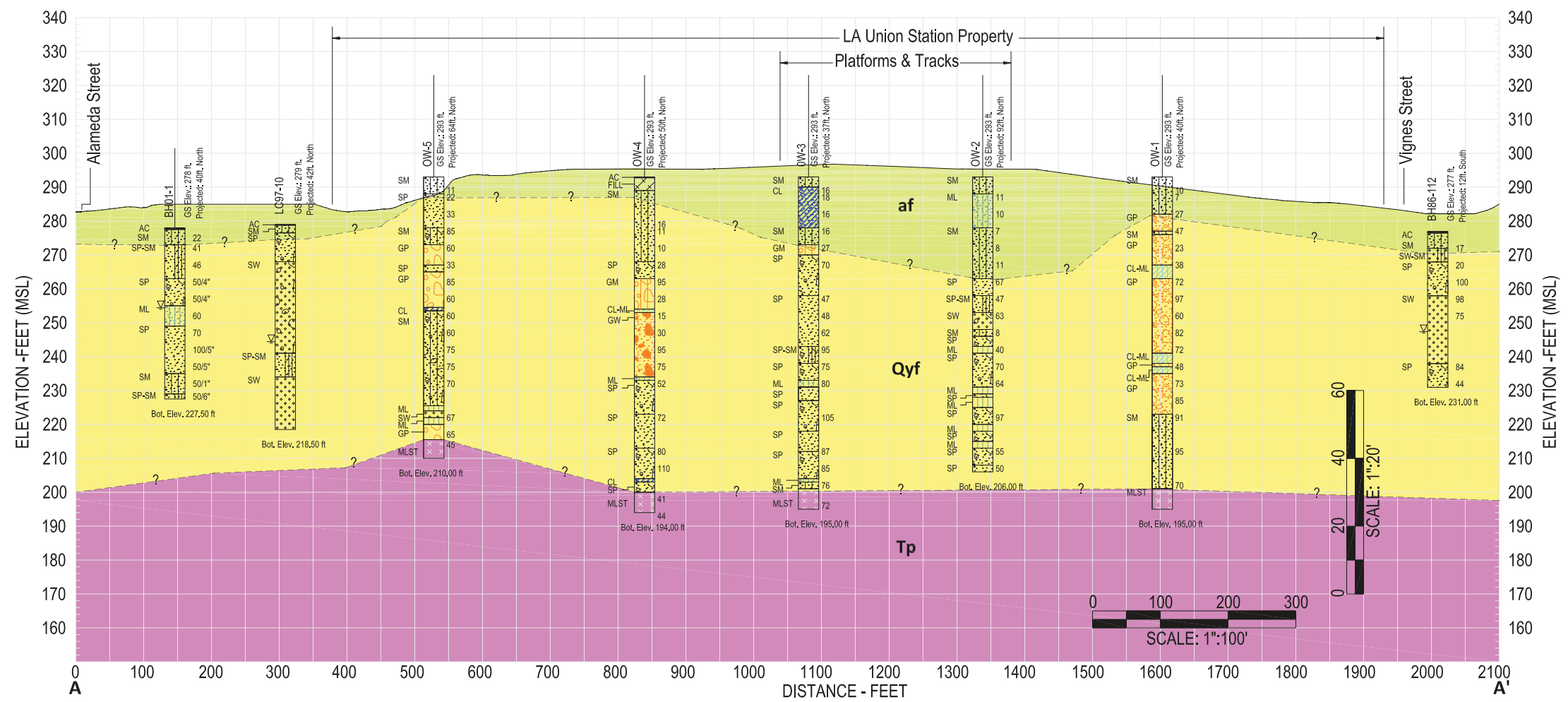
- af** Artificial Fill: Silty Sand and Clayey Sand; may contain Gravel and/or Cobbles
- Qyf** Alluvium: Sand, Silty Sand, Silt, and Clay; may contain Gravel and/or Cobbles
- Tp** Puente Formation: Siltstone, Claystone, and Siltstone/Sandstone

**EXPLANATION**

**Group Symbol & Name**

|  |       |   |  |       |                                |
|--|-------|---|--|-------|--------------------------------|
|  | SW    | Well-Graded SAND                        |  | CL    | Lean CLAY                      |
|  | SW    | Well-Graded SAND with GRAVEL            |  | ML    | Sandy SILT                     |
|  | SP-SM | Poorly-Graded SAND with SILT            |  | GM    | Silty GRAVEL                   |
|  | SP-SM | Poorly-Graded SAND with SILT and GRAVEL |  | GP    | Poorly-Graded GRAVEL with SAND |
|  | SW-SM | Well-Graded SAND with SILT              |  | GP    | Poorly-Graded GRAVEL with SAND |
|  | SC    | Clayey SAND with GRAVEL                 |  | GP-GM | Poorly-Graded GRAVEL with SILT |
|  | SM    | Silty SAND                              |  | GW    | Well-Graded GRAVEL with SAND   |
|  | SM    | Silty SAND with GRAVEL                  |  | CBBL  | Cobbles                        |
|  | SP    | Poorly-Graded SAND                      |  | ROCK  | Bedrock                        |
|  | SP    | Poorly-Graded SAND with GRAVEL          |  | CLST  | Claystone                      |
|  | PCC   | Concrete                                |  | MLST  | Siltstone                      |
|  | CL-ML | Silty CLAY                              |  | AC    | Asphalt                        |
|  | CL    | Sandy Lean CLAY                         |  | FILL  | Fill                           |

Note: Abbreviation for soil group is based on ASTM D2487-11, Unified Soil Classification

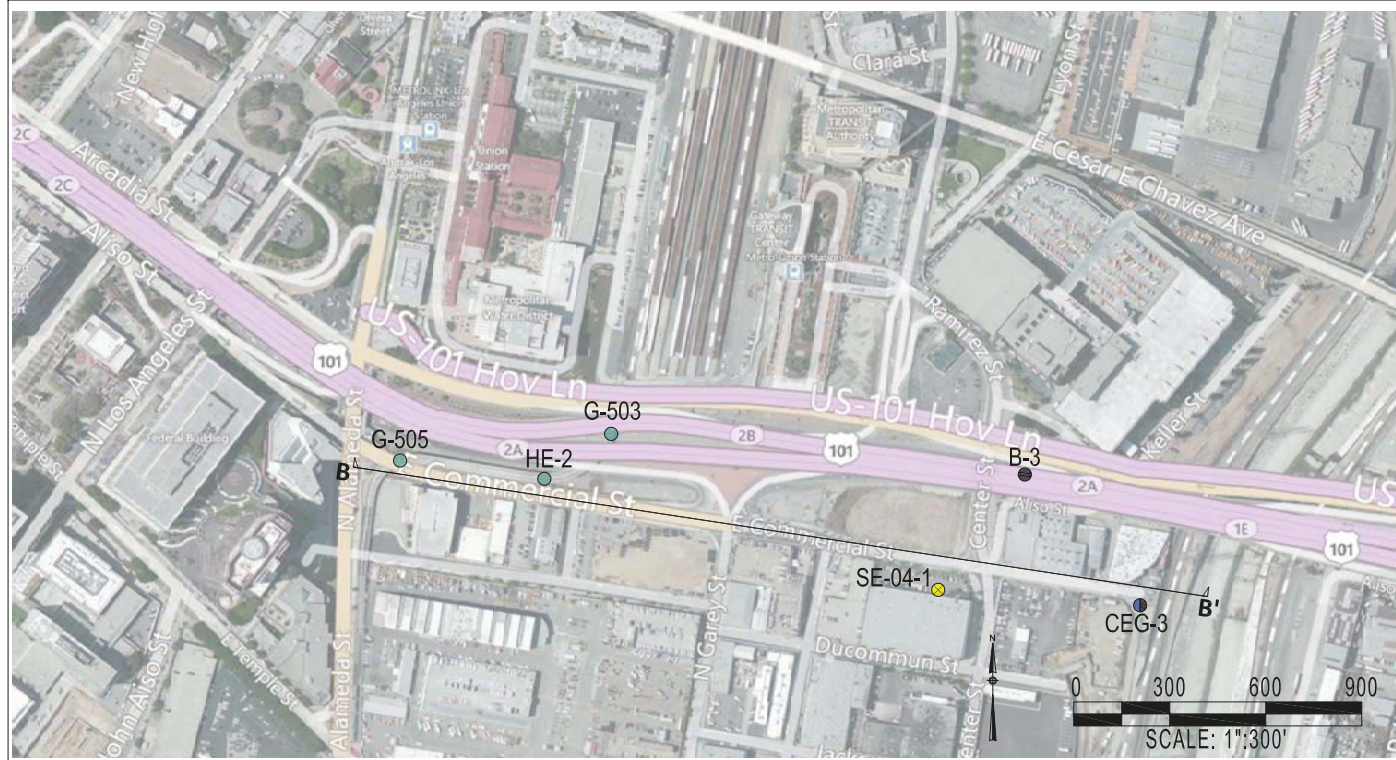


PROFILE VIEW



**LINK UNION STATION**  
GEOLOGIC PROFILE - EXHIBIT 6-4

**SCALE: AS SHOWN**  
**DATE: 06-12-2016**

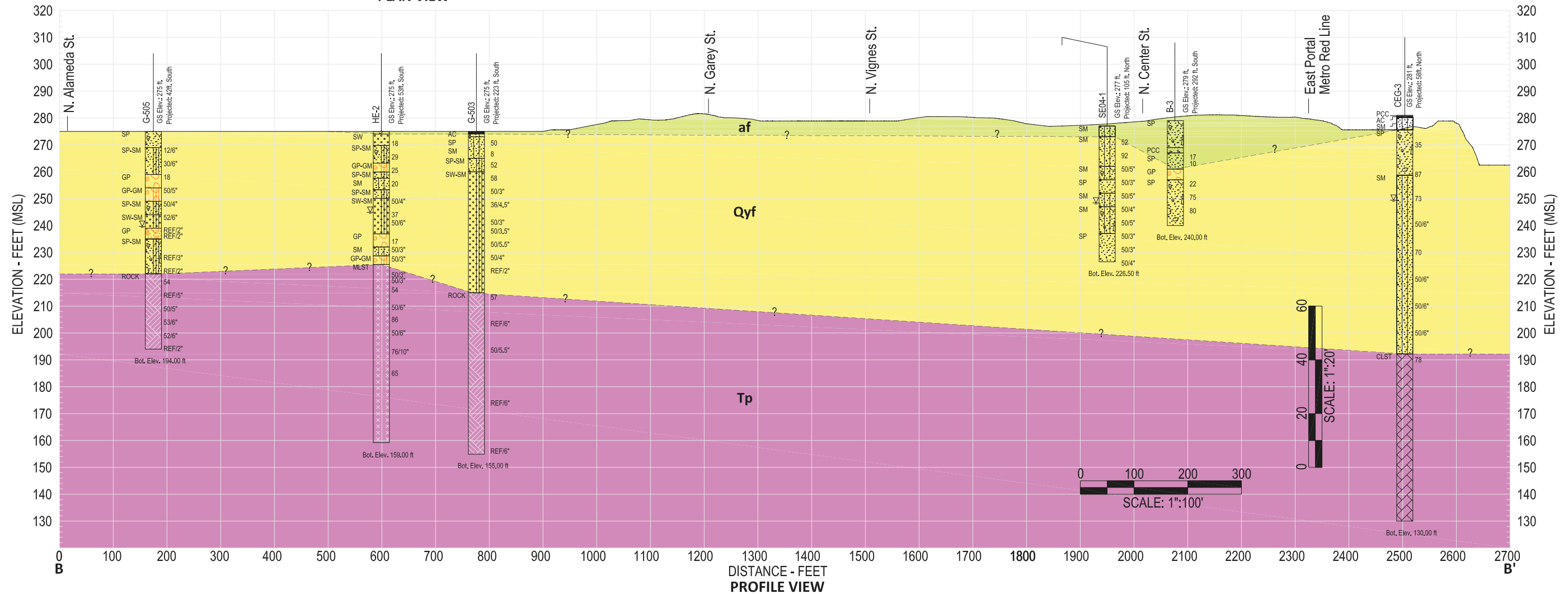


PLAN VIEW

### EXPLANATION

| Geotechnical Investigations |  | Group Symbol & Name |   |  |                                |
|-----------------------------|--|---------------------|---|--|--------------------------------|
|                             | Caltrans, 1954   |                     | Well-Graded SAND                        |  | Lean CLAY                      |
|                             | Caltrans, 2004   |                     | Well-Graded SAND with GRAVEL            |  | Sandy SILT                     |
|                             | Converse Consultants, 1983   |                     | Poorly-Graded SAND with SILT            |  | Silty GRAVEL                   |
|                             | Sladden Engineering, 2004  |                     | Poorly-Graded SAND with SILT and GRAVEL |  | Poorly-Graded GRAVEL           |
|                             |  |                     | Well-Graded SAND with SILT              |  | Poorly-Graded GRAVEL with SAND |
|                             |  |                     | Clayey SAND with GRAVEL                 |  | Poorly-Graded GRAVEL with SILT |
|                             |  |                     | Silty SAND                              |  | Well-Graded GRAVEL with SAND   |
|                             | <b>af</b> Artificial Fill: Silty Sand and Clayey Sand; may contain Gravel and/or Cobbles |                     | Silty SAND with GRAVEL                  |  | Cobbles                        |
|                             | <b>Qyf</b> Alluvium: Sand, Silty Sand, Silt and Clay; may contain Gravel and/or Cobbles  |                     | Poorly-Graded SAND                      |  | Bedrock                        |
|                             | <b> Tp </b> Puente Formation: Siltstone, Claystone, and Siltstone/Sandstone              |                     | Poorly-Graded SAND with GRAVEL          |  | Claystone                      |
|                             |  |                     | Concrete                                |  | Siltstone                      |
|                             |  |                     | Silty CLAY                              |  | Asphalt                        |
|                             |  |                     | Sandy Lean CLAY                         |  | Fill                           |

Group Symbol—SM  
 Groundwater Level  
 Note: Abbreviation for soil group is based on ASTM D2487-11, Unified Soil Classification  
 A14-001  
 GS Elev.: xx ft.  
 Projected: xx ft.  
 Soil Type  
 52—Blows / ft.  
 Material Change



PROFILE VIEW



## **Appendix B: As-Built Plans**

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**As-Built Plans**  
**Los Angeles River Bridge & OH at Aliso Street, Bridge**  
**No. 53-0405**

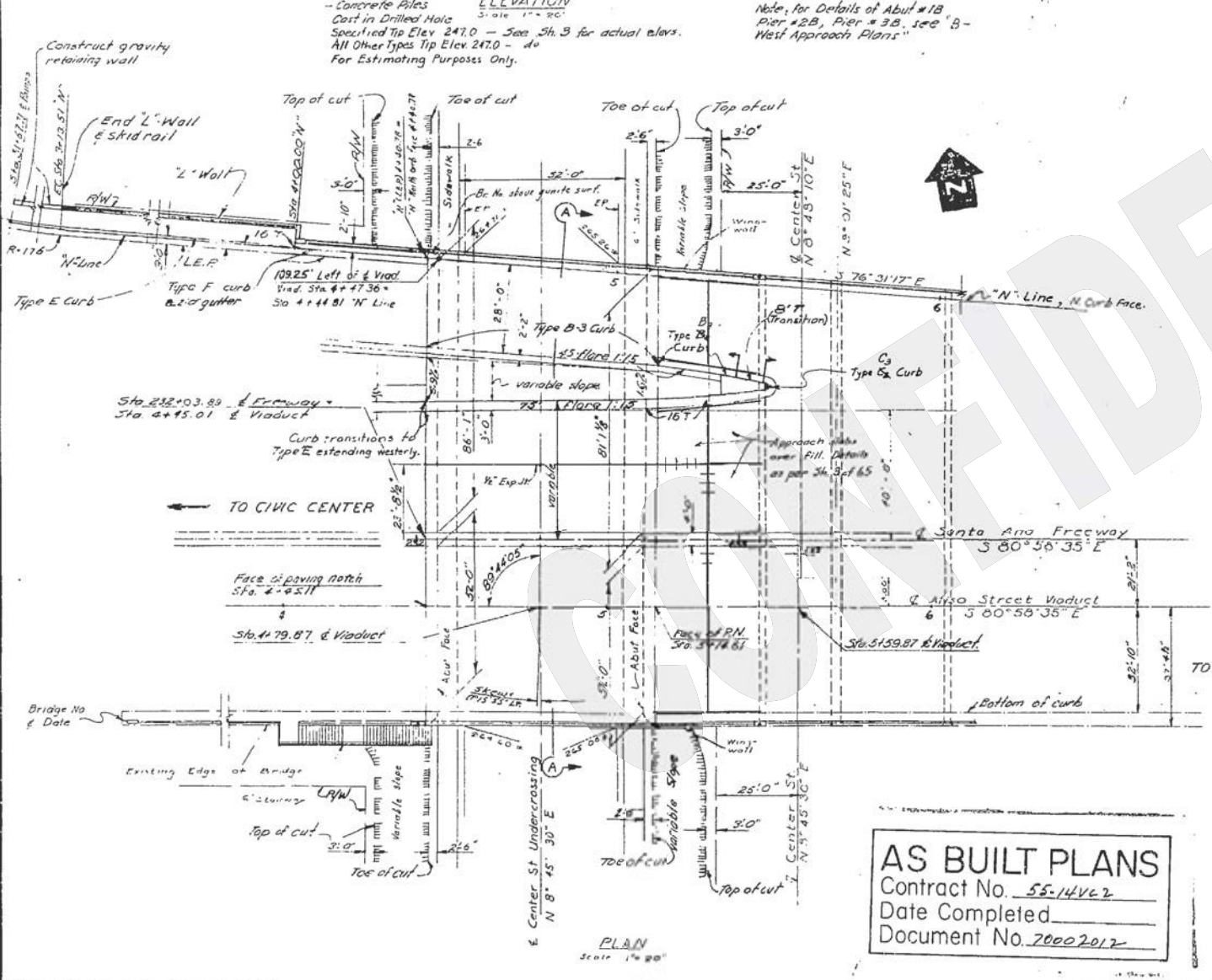
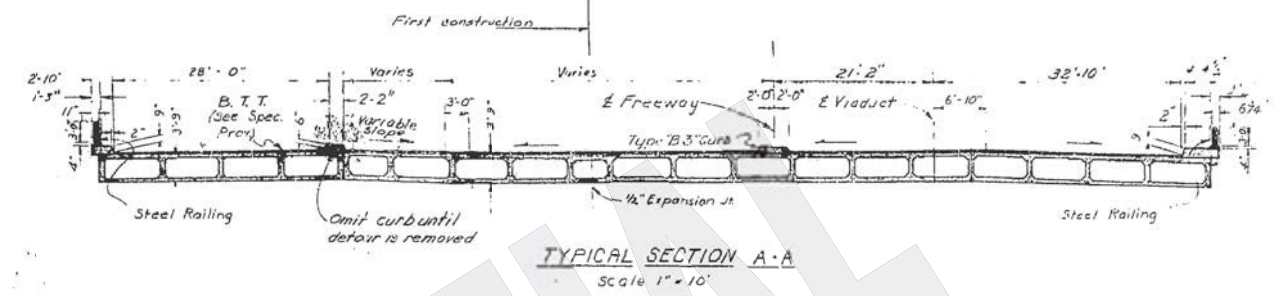
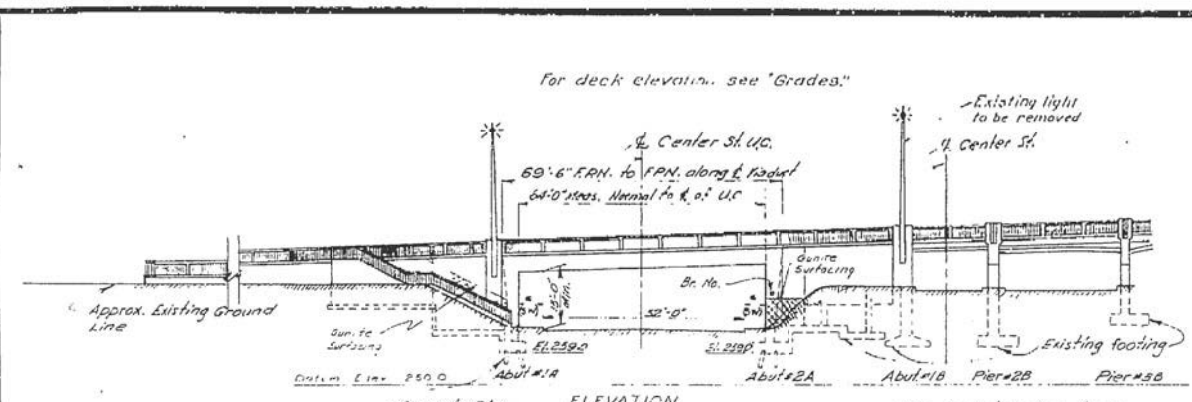
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81

|          |       |           |           |              |
|----------|-------|-----------|-----------|--------------|
| PAR. NO. | STATE | PROJ. NO. | SHEET NO. | TOTAL SHEETS |
| 7        | CAL.  |           |           |              |

|               |        |  |                               |     |       |
|---------------|--------|--|-------------------------------|-----|-------|
| DATE          | SCALE  | PROJECT                                    | SECTION                       | NO. | TOTAL |
| APRIL 21 1954 | 1"=10' | WIDENING OF L.R. RIVER BRIDGE AT ALISO ST. | A-CENTER STREET UNDERCROSSING | 27  | 55    |



**TYPICAL SECTION A-A**  
Scale 1"=10'

**INDEX TO PLANS**

- A-1. Structure Plan
- A-2. Foundation Plan
- A-3. Grades
- A-4. Underground Utilities
- A-5. Abutment & Pile Layout
- A-6. N.W. Wingwall Layout & Details #1
- A-7. N.E. Wingwall Layout & Details #2
- A-8. S.W. Wingwall & Stairway
- A-9. East Abutment & Wingwalls
- A-10. Abutment Details
- A-11. Typical Section
- A-12. Girder Layout
- A-13. Girder Reinforcement #1
- A-14. Girder Reinforcement #2
- A-15. Defour Plan
- A-16. Type 1 Cantilever Retaining Wall
- A-17. Type 2 Cantilever Retaining Wall
- A-18. Stairway Rail
- A-19. Steel Railing #1
- A-20. Steel Railing #2
- A-21. Electrolier Details
- A-22. Pile Details
- A-23. Standard Details
- A-24. Railing Details For Retaining Wall

**AS BUILT**

CORRECTIONS BY *[Signature]*  
DATE 12-14-55

**AS BUILT PLANS**  
Contract No. 55-14V62  
Date Completed \_\_\_\_\_  
Document No. 70002012

T.B.M. Elev. 275.635'  
Wire spike on S.E. corner Center and Aliso,  
1.4' So. of B.C.R. on Center St. (So. of Bridge)

Note: All dimensions and lines dependent upon existing structure shall be verified in the field by the Contractor.  
Bituminous Type Treatment (B.T.T.) is Asphalt Concrete.

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS

**WIDENING OF L.R. RIVER BRIDGE AT ALISO ST.**  
**A-CENTER STREET UNDERCROSSING**  
**STRUCTURE PLAN**

SCALE: A-1 Shown BRIDGE 53-405 FILE DRAWING C-3243-1  
PREL. DRAWING NO. P. 3243

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

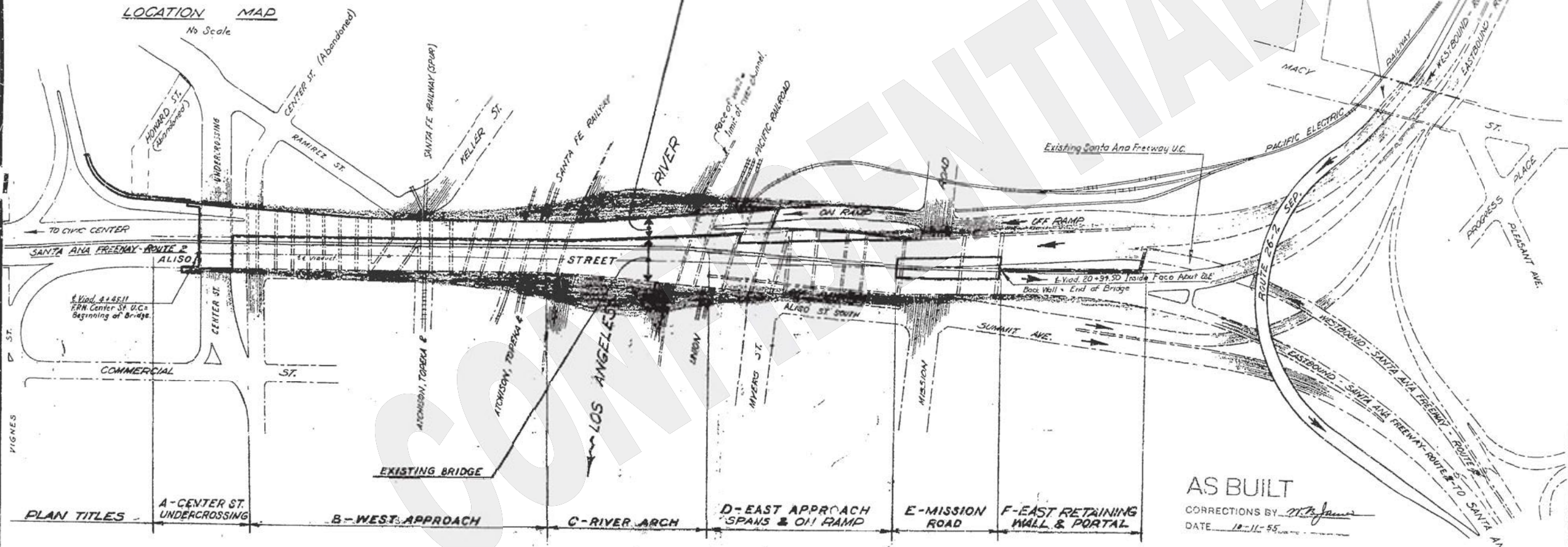
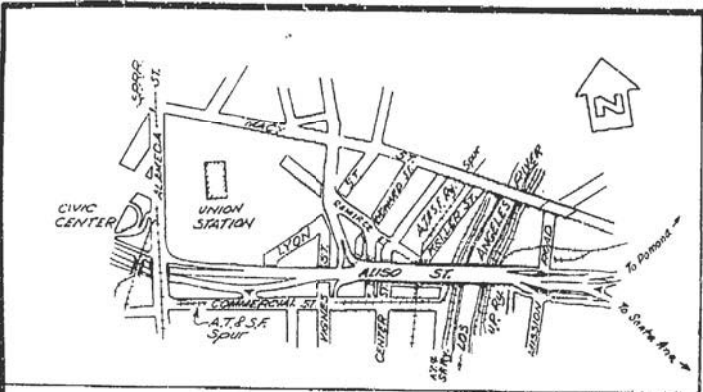
67

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| 7                   | CAL.  |           |             |           |              |

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|-------|--------|-------|---------|-----------|--------------|
| 111   | LA     | 2     | 2       | 137       |              |

101  
 DATE APPROVED: 12-11-55  
 BY: [Signature]



BRIDGE DEPARTMENT  
 DESIGN SECTION  
 5

|                |      |
|----------------|------|
| DESIGNED BY    | DATE |
| CHECKED BY     | DATE |
| APPROVED BY    | DATE |
| QUANTITIES     |      |
| SPECIFICATIONS |      |

AS BUILT  
 CORRECTIONS BY: [Signature]  
 DATE: 12-11-55

VICINITY PLAN

AS BUILT PLANS  
 Contract No. 55-14V62  
 Date Completed \_\_\_\_\_  
 Document No. 70002017

| SANTA ANA FREEWAY  |               |      |                  |
|--|---------------|------|------------------|
| STATE OF CALIFORNIA<br>DEPARTMENT OF PUBLIC WORKS<br>DIVISION OF HIGHWAYS  |               |      |                  |
| WIDENING OF LOS ANGELES RIVER BRIDGE & OVERHEAD<br>AT ALISO STREET<br>LOCATED IN THE CITY OF LOS ANGELES IN LOS ANGELES COUNTY |               |      |                  |
| VICINITY PLAN  |               |      |                  |
| SCALE 1"=100'  | BRIDGE 55-405 | FILE | DRAWING 1-3243-2 |

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE PLANS AS GIVEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SAN FRANCISCO, CALIFORNIA, IN ACCORDANCE WITH THE AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ TITLE: \_\_\_\_\_

| FED. ROAD DIST. NO. | STATE | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------|---------|-----------|--------------|
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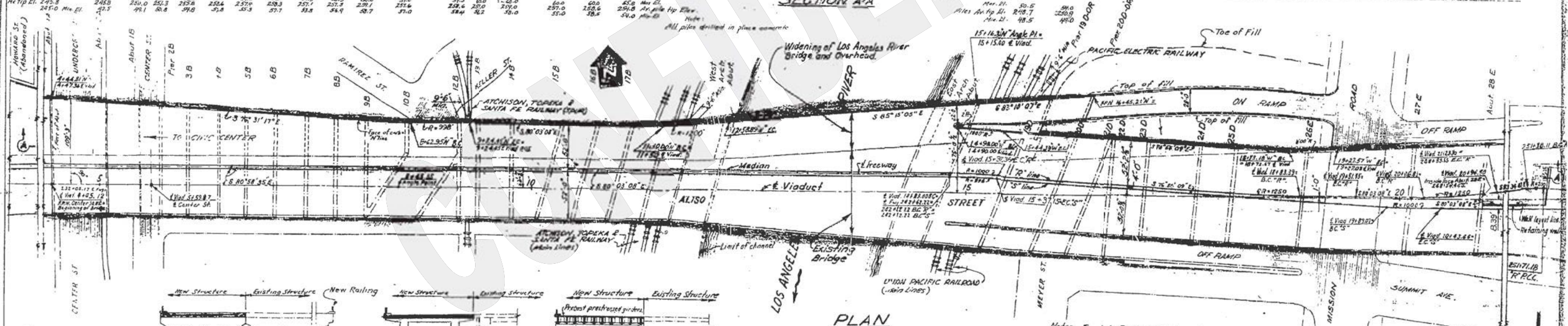
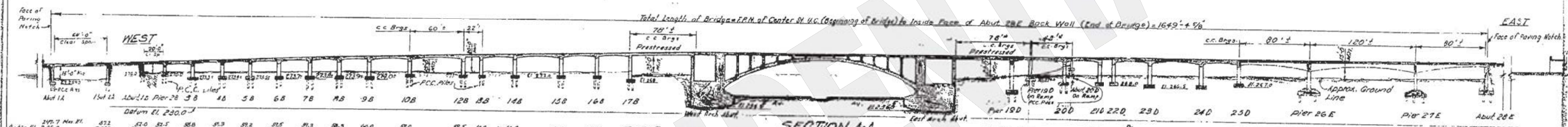
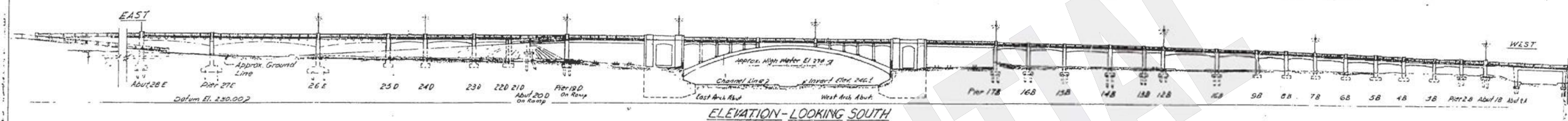
DATE APPROVED: 11/1/50  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 TITLE: WIDENING OF LOS ANGELES RIVER BRIDGE & OVERHEAD

FOR PROFILES, SEE "GRADES" SHEETS

MICROFILM

AS BUILT

CORRECTIONS BY: W.T.B. [Signature]  
DATE: 10-11-50



DESIGN 5 SECTION

**AS BUILT PLANS**  
 Contract No. 55-14V62  
 Date Completed  
 Document No. 70002012

Notes: For L.A. River Channel work see "C-River Arch Plans."  
 For General Notes see "Index Sheet."  
 For locations of Bridge No. 4 Data, see "Structure Plans."  
 All dimensions and lines dependent upon existing structure shall be verified in the field by the Contractor.  
 Various Type Treatment (RTT) Asphalt Concrete  
 Live Loading H 20-S16-44

**SANTA ANA FREEWAY**

STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS

**WIDENING OF LOS ANGELES RIVER BRIDGE & OVERHEAD AT ALISO STREET**

LOCATED IN THE CITY OF LOS ANGELES IN LOS ANGELES COUNTY

**GENERAL PLAN**

BRIDGE 53-405

SCALE 1"=50'

|          |       |             |           |              |
|----------|-------|-------------|-----------|--------------|
| FILE NO. | STATE | PROJECT NO. | SHEET NO. | TOTAL SHEETS |
| 7        | CAL.  |             | 4         | 129          |

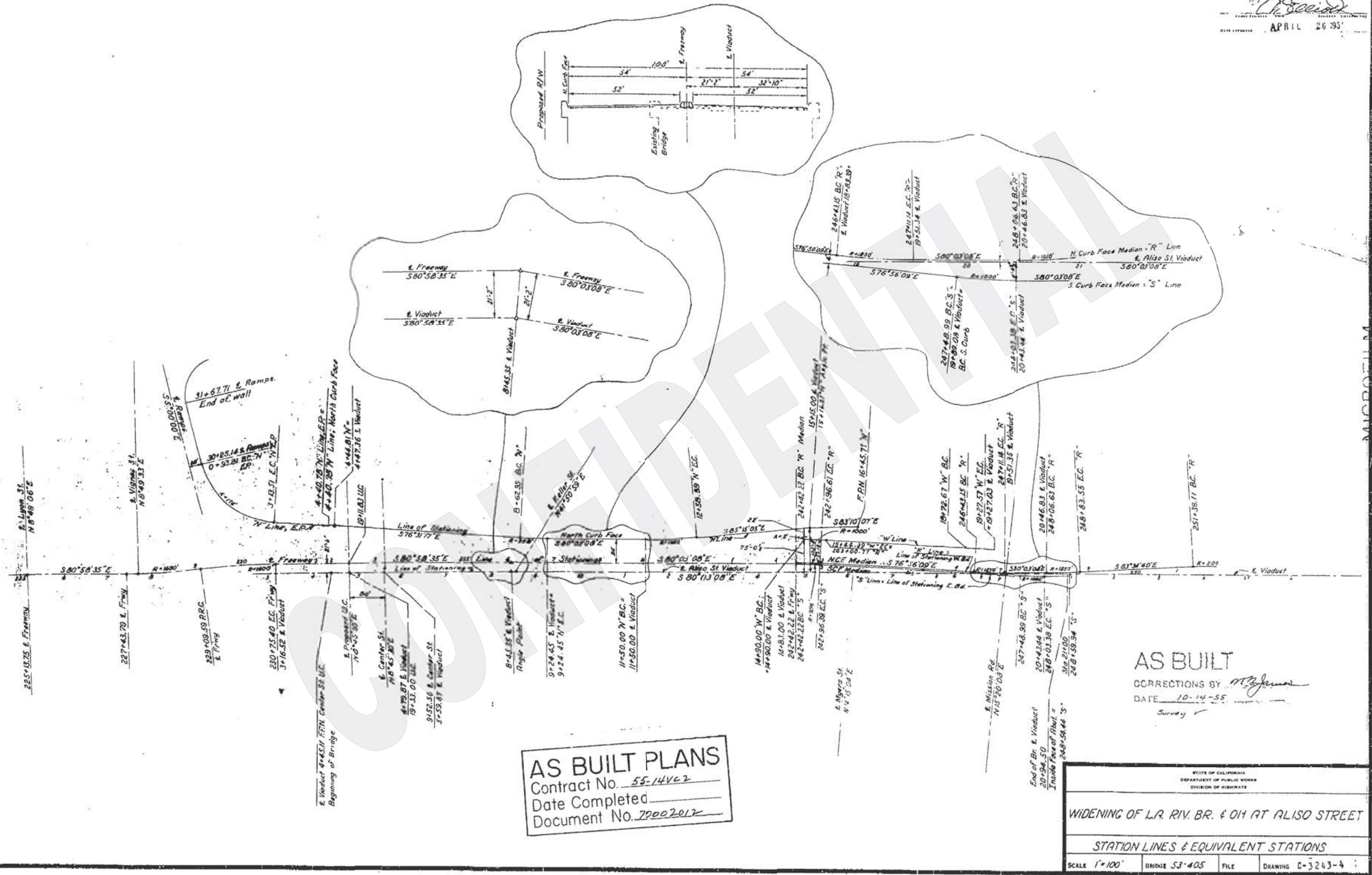
  

|      |               |
|------|---------------|
| DATE | APRIL 26 1951 |
|------|---------------|

BRIDGE DEPARTMENT

SECTION

|      |    |          |
|------|----|----------|
| DATE | BY | REVISION |
|      |    |          |



**AS BUILT PLANS**  
 Contract No. 55-1462  
 Date Completed \_\_\_\_\_  
 Document No. 20002012

**AS BUILT**  
 CORRECTIONS BY [Signature]  
 DATE 10-14-55  
 Survey

STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS

**WIDENING OF L.A. RIV. BR. & OH AT ALISO STREET**

STATION LINES & EQUIVALENT STATIONS

SCALE 1"=100' BRIDGE 53-405 FILE DRAWING C-3243-4

PREL. DRAWING NO. P. 3243

I HEREBY CERTIFY THAT THIS IS A TRUE & ACCURATE COPY OF THE ABOVE DRAWING AS GIVEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA, IN ACCORDANCE WITH AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

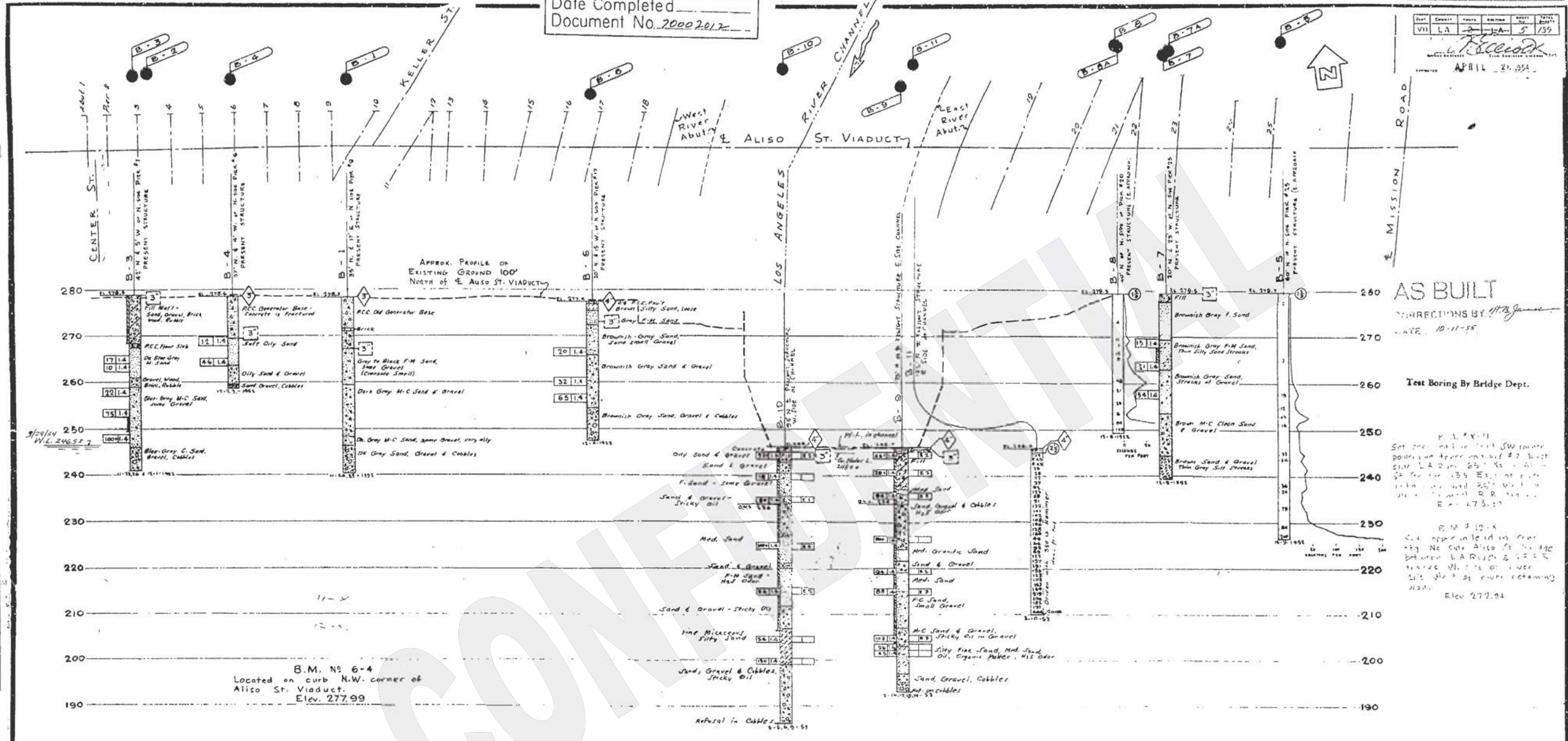
DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_ TITLE \_\_\_\_\_

**AS BUILT PLANS**  
 Contract No. 55-14V62  
 Date Completed \_\_\_\_\_  
 Document No. 70002017

70

| FED. ROAD DIST. NO. | STATE | PROJECT NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-------------|-------------|-----------|--------------|
| 2                   | CAL.  |             |             |           |              |

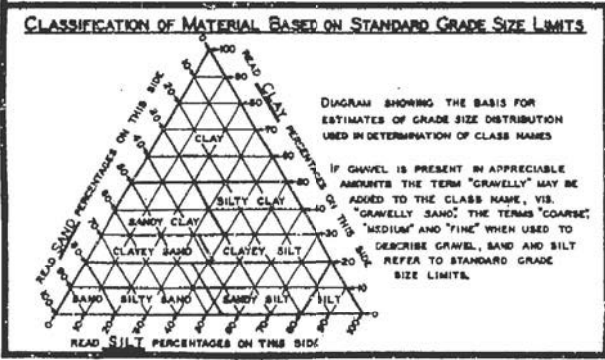
APRIL 21 1954  
 L. P. Felleck  
 CIVIL ENGINEER  
 LICENSE NO. 5159



**AS BUILT**  
 CORRECTIONS BY M.B. Jones  
 DATE: 10-11-55

Test Boring By Bridge Dept.  
 P.L. # 111  
 Set on the line of the SW corner  
 pointing at the corner of the  
 side LA 200 251 No. 101  
 24' 0" to the 135' East of the  
 101' 0" and 24' 0" to the  
 101' 0" and 24' 0" to the  
 E = 473.10  
 B.M. # 6-4  
 C.A. corner in the NW  
 of the side of the bridge  
 between LA 200 251 No. 101  
 and the 101' 0" of the  
 side of the bridge extending  
 north.  
 Elev. 272.94

B.M. No 6-4  
 Located on curb N.W. corner of  
 Aliso St. Viaduct.  
 Elev. 277.99

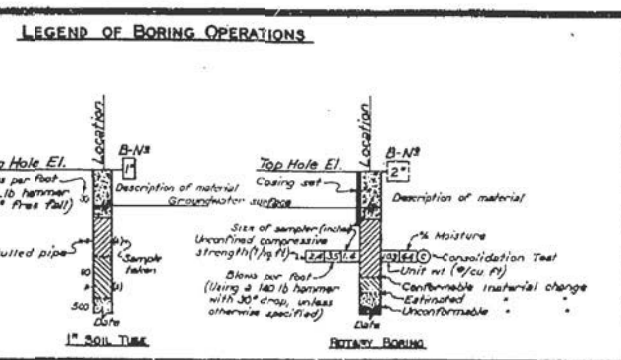


**LEGEND OF EARTH MATERIALS**

|                           |                           |
|---------------------------|---------------------------|
| GRAVEL                    | SILTY CLAY OR CLAYEY SILT |
| SAND                      | PEAT AND/OR ORGANIC CLAY  |
| SILT                      | FILLED MATERIAL           |
| CLAY                      | IGNEOUS ROCK              |
| SANDY CLAY OR CLAYEY SAND | SEDIMENTARY ROCK          |
| SANDY SILT OR SILTY SAND  | METAMORPHIC ROCK          |

**LEGEND OF BORING OPERATIONS**

|                          |
|--------------------------|
| PLAN OF ANY BORING       |
| PENETROMETER             |
| 2 1/2" CONE PENETROMETER |
| SAMPLER BORING (DRY)     |
| ROTARY BORING (WET)      |
| AUGER BORING (DRY)       |
| JET BORING               |
| CORE BORING              |
| TEST PIT                 |



**NOTES**  
 THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (D) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCORDING TO THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS. PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A NO. 2 MERIDIAN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS

WIDENING OF LA. RIVER BRIDGE ON ALISO ST.

**LOG OF TEST BORINGS (1 of 3)**

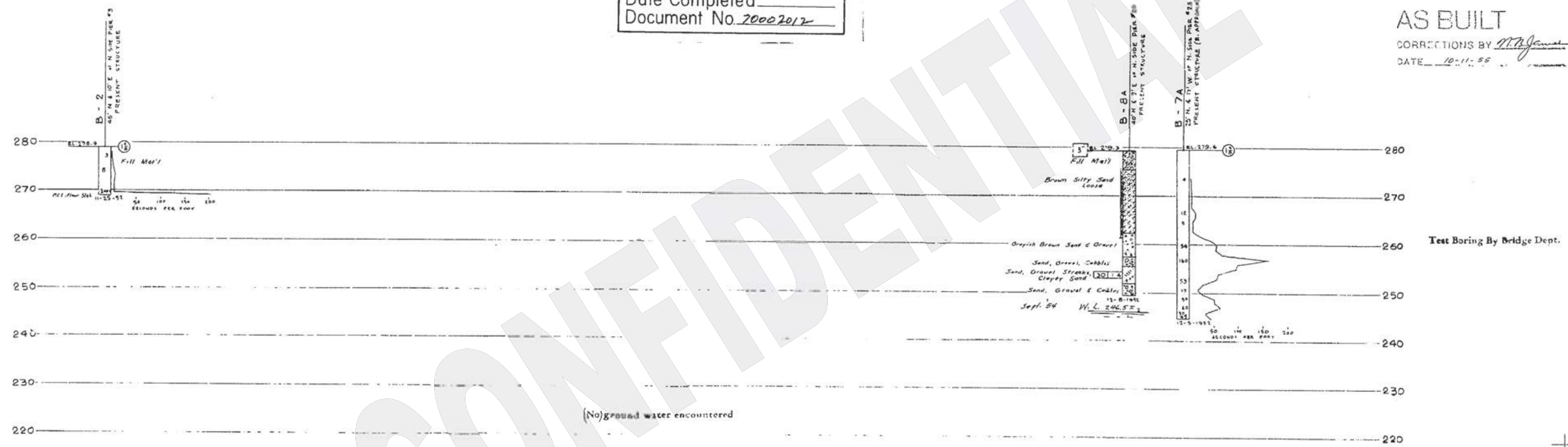
SCALE: HORIZ. 1" = 50' VERT. 1" = 10'  
 BRIDGE 53-405 FILE DRAWING C-3243-5  
 PREL. DRAWING NO. P. 32.43



**AS BUILT PLANS**  
Contract No. 55-14V02  
Date Completed \_\_\_\_\_  
Document No. 20002012

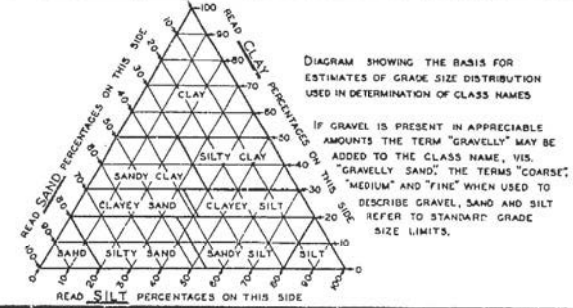
**AS BUILT**  
CORRECTIONS BY [Signature]  
DATE 10-11-55

BRIDGE DEPARTMENT



(No) ground water encountered

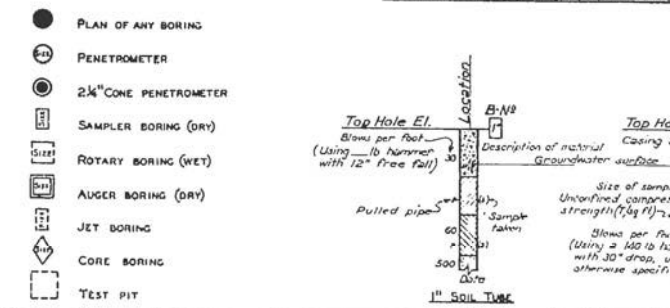
**CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS**



**LEGEND OF EARTH MATERIALS**

|  |                           |  |                           |
|--|---------------------------|--|---------------------------|
|  | GRAVEL                    |  | SILTY CLAY OR CLAYEY SILT |
|  | SAND                      |  | PEAT AND/OR ORGANIC CLAY  |
|  | SILT                      |  | FILLED MATERIAL           |
|  | CLAY                      |  | IGNEOUS ROCK              |
|  | SANDY CLAY OR CLAYEY SAND |  | SEDIMENTARY ROCK          |
|  | SANDY SILT OR SILTY SAND  |  | METAMORPHIC ROCK          |

**LEGEND OF BORING OPERATIONS**



**NOTES**

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (C) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS. PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A NO. 2 WIKRIEMAN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS

WIDENING OF L.A. AVENUE BRIDGE ON AT 4150 ST.

**LOG OF TEST BORINGS (2 of 3)**

SCALE: HORIZ. 1" = 50' VERT. 1" = 10'  
BRIDGE 53-405 FILE \_\_\_\_\_ DRAWING C-3243-6  
PREL. DRAWING NO. P 2243

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

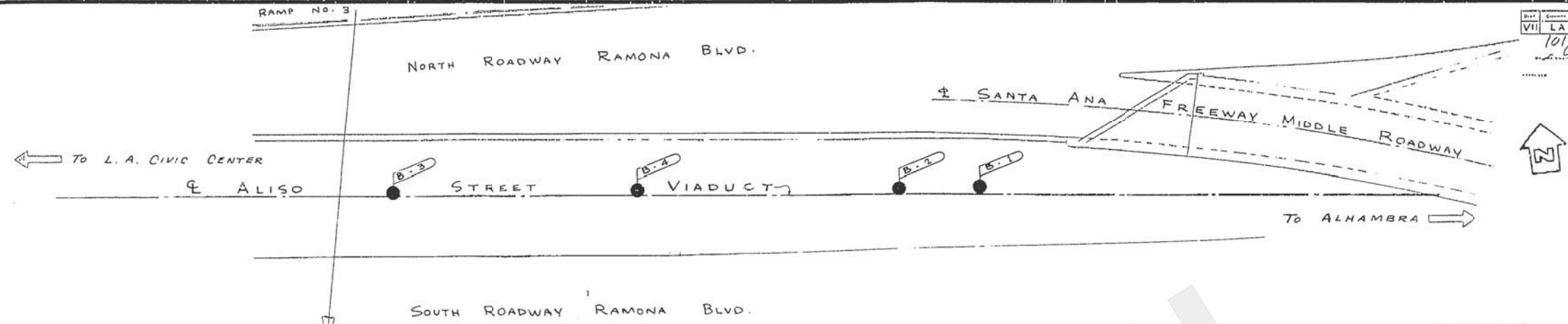
72

|       |       |       |          |       |       |
|-------|-------|-------|----------|-------|-------|
| NO. 2 | STATE | NO. 2 | PHYSICAL | NO. 2 | TOTAL |
| 2     | CAL.  |       |          |       |       |

|         |        |       |         |         |       |
|---------|--------|-------|---------|---------|-------|
| NO. VII | COUNTY | NO. 7 | SECTION | NO. 139 | TOTAL |
| 7       | LA     | 7     | LA      | 7       | 139   |

10/1/55  
APR 1 1955



**AS BUILT**  
CORRECTIONS BY: *W.F. James*  
DATE: 11-11-55

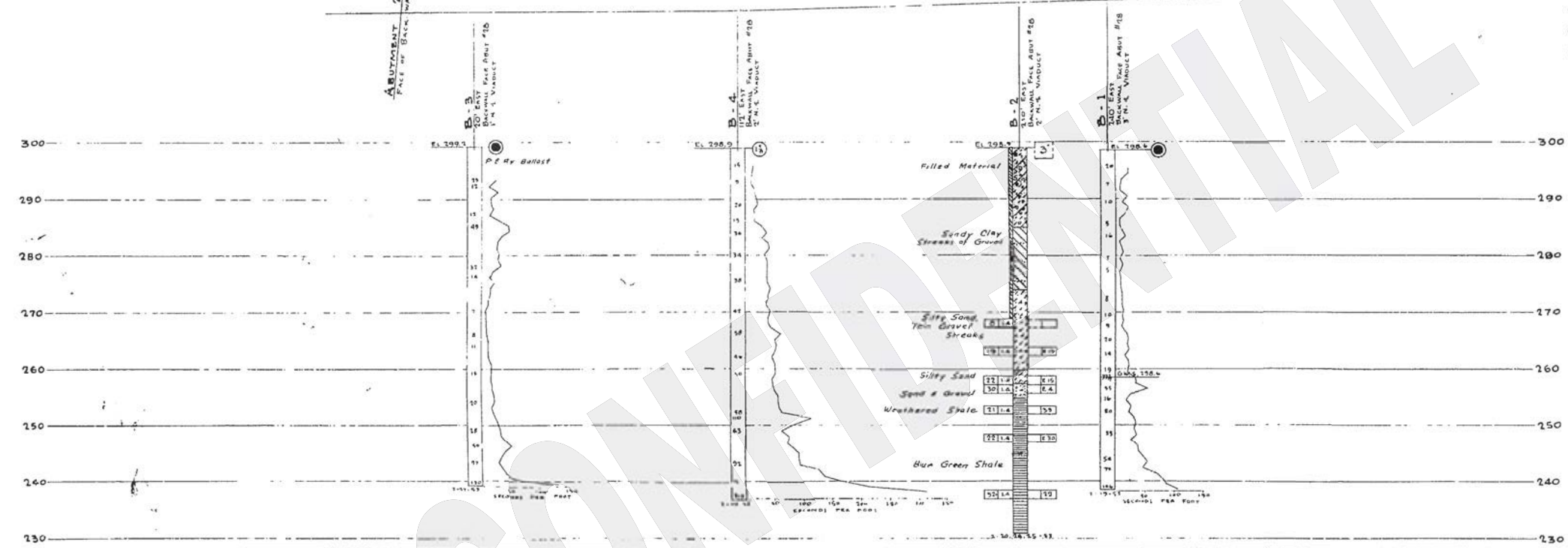
Test Boring by Bridge Dept.

**AS BUILT PLANS**  
Contract No. 55-14V62  
Date Completed \_\_\_\_\_  
Document No. 70002012

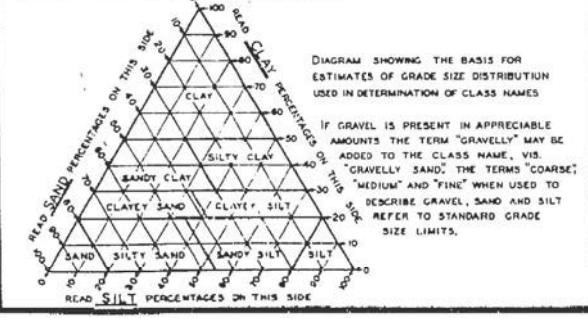
B.M. #6-5  
Pd. No. side Aliso St Viaduct on E. side L.A. River at West end of Ramp #4 in No. curb at SW. corner of CB 66' E. of Mission Rd. a wire spike in curb. Elev. 278.75

B.M. #Y-11  
Set conc. nail in lead SW corner powerline tower marked #7 East side L.A. River, 65' No. of Aliso St Bridge, 13.5 East of river retaining wall, 35' West of westernmost R.R. tracks. Elev. 273.30

B.M. #12-X  
Set copper nail in lead conc. Prg. N. side Aliso St Bridge between L.A. River & S.F.R.R. tracks, W. side of river 21' West of river retaining wall. Elev. 272.94



**CLASSIFICATION OF MATERIAL BASED ON STANDARD GRADE SIZE LIMITS**



**LEGEND OF EARTH MATERIALS**

- GRAVEL
- SAND
- SILT
- CLAY
- SANDY CLAY OR CLAYEY SAND
- SANDY SILT OR SILTY SAND
- SILTY CLAY OR CLAYEY SILT
- PEAT AND/OR ORGANIC CLAY
- FILLED MATERIAL
- IGNEOUS ROCK
- SEDIMENTARY ROCK
- METAMORPHIC ROCK

**LEGEND OF BORING OPERATIONS**

- PLAN OF ANY BORING
- PENETROMETER
- 2 1/2" CONE PENETROMETER
- SAMPLER BORING (DRY)
- ROTARY BORING (WET)
- AUGER BORING (DRY)
- JET BORING
- CORE BORING
- TEST PIT

**NOTES**

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (C) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS. PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A #2 MERRIEN-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS

WIDEWAY OF L.A. RIVER BRIDGE & M.I. ST. '57 ST.

**LOG OF TEST BORINGS (3 of 3)**

SCALE: 1" = 20'  
BRIDGE 53-405 FILE  
DRAWING 6-3243-7

PREL. DRAWING NO. P-2243

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

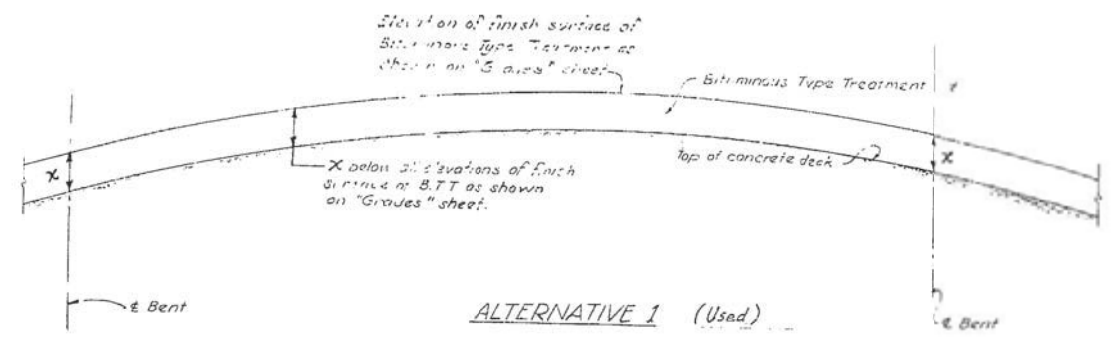
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73

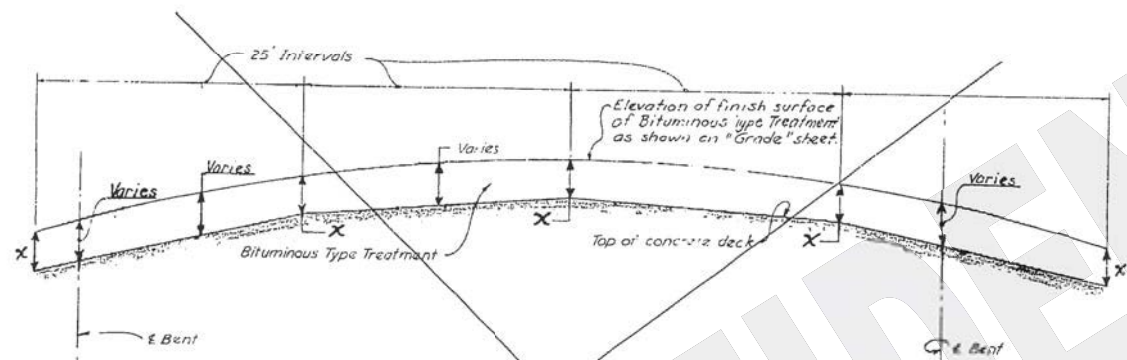
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| 7                   | CAL.  |           |             |           |              |

| DIST. | COUNTY | ROUTE | SECTION | POST MILE | POST MILE TOTAL |
|-------|--------|-------|---------|-----------|-----------------|
| 101   | Yuba   | 2     |         | 8         | 5.9             |

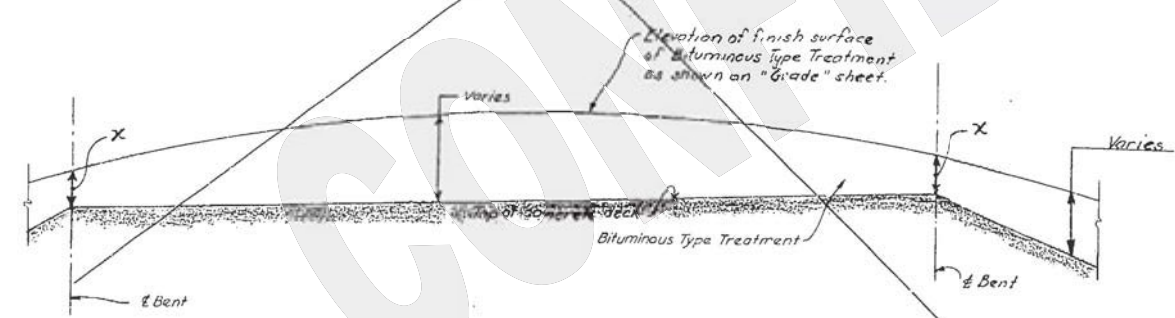
101 Yuba  
APRIL 25 1955



ALTERNATIVE 1 (Used)



ALTERNATIVE 2



ALTERNATIVE 3

LONGITUDINAL SECTION

Note:  
 $x = 0.25'$  except  $x =$  difference between "Grade" elevation and top of concrete elevation shown at the following locations:  
 A - Center Street Undercrossing  
 D - East Approach Spans & On Ramp, prestressed girder span only  
 E - Mission Road.

Contractor may use any or a combination of alternatives shown.

Other alternatives may be used upon approval by the Engineer.

Bituminous Type Treatment (B.T.T.) is asphalt concrete.

AS BUILT

CORRECTIONS BY: *[Signature]*  
 DATE: 10-11-55

AS BUILT PLANS  
 Contract No. 55-14V62  
 Date Completed \_\_\_\_\_  
 Document No. 70002012

|   |               |      |                  |
|---|---------------|------|------------------|
| STATE OF CALIFORNIA<br>DEPARTMENT OF PUBLIC WORKS<br>DIVISION OF HIGHWAYS |               |      |                  |
| WIDENING OF LA RIVER BRIDGE AT 4150 ST.                                   |               |      |                  |
| ELEVATIONS - TOP OF CONCRETE DECK   |               |      |                  |
| SCALE: NO SCALE   | BRIDGE 53-405 | FILE | DRAWING C-3243-8 |
| PREL. DRAWING NO. P. 3243-1   |               |      |                  |

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

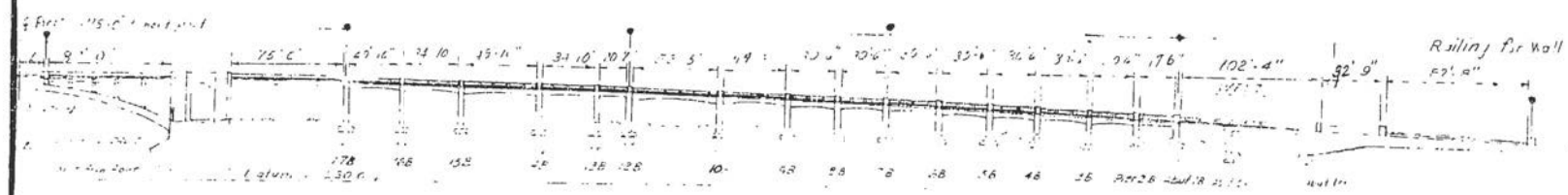
BRIDGE DEPARTMENT

SECTION

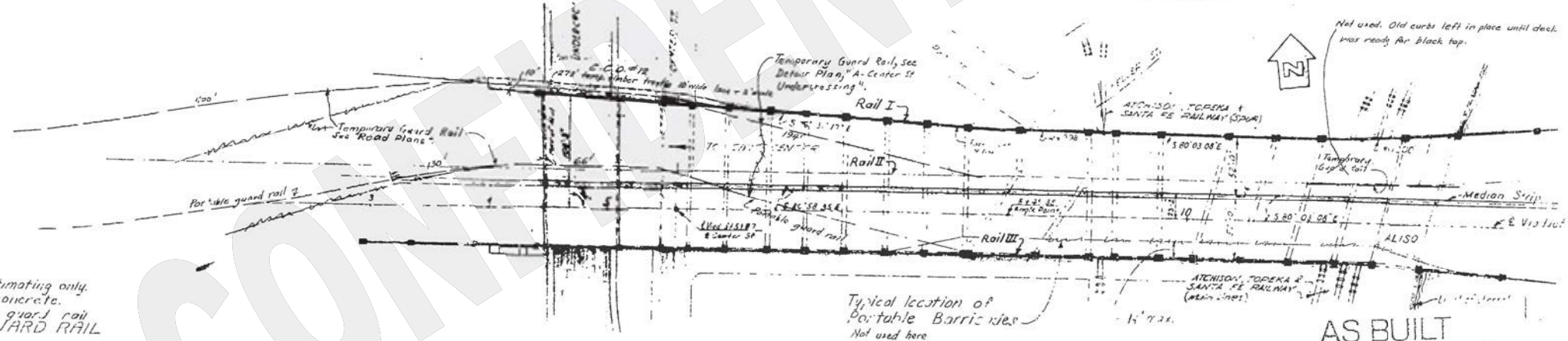
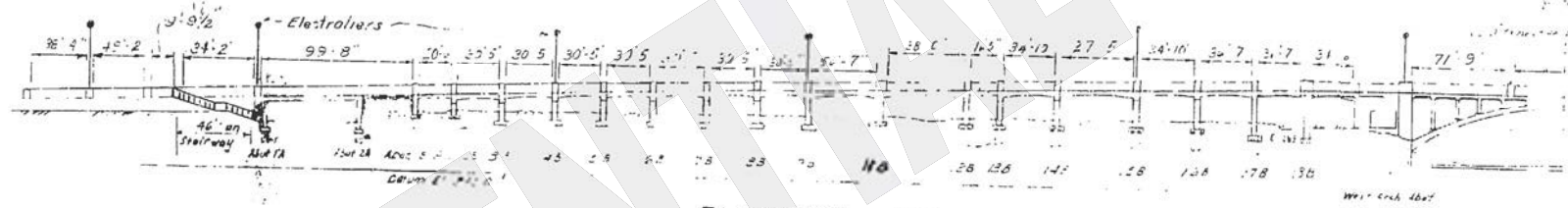
|                |    |      |          |
|----------------|----|------|----------|
| DETAILS        | BY | DATE | REVISION |
| QUANTITIES     | BY | DATE |          |
| SPECIFICATIONS | BY | DATE |          |

74

|          |        |          |         |
|----------|--------|----------|---------|
| DATE     | SCALE  | FILE     | DRAWING |
| 10/11/35 | 1"=20' | C-3243-9 |         |



1. RAIL I TO BE REMOVED FROM PIER 17 TO HEREIN IN PLACE WITH WATERWAY, INCLUDING NEW RAIL I, TO BE REINSTALLED.
2. WHEN SET UP OVER CENTER STREET AS SHOWN ON CENTER STREET UNDERPASSING, RAIL II FROM PIER 17 TO PIER 9 SHALL BE REMOVED AND REINSTALLED.
3. DURING WORK ON NEW WEST ARCH, RAIL II DURING ERECTION OF PRESTRESSED SPAN, RAIL II FROM PIER 17 TO PIER 9 SHALL BE REMOVED AND TEMPORARY GUARD RAIL SET UP IN PRESENT S. DEWALK AREA. FACE OF P. X & WHEEL GUARD TO MATCH FACE OF EXISTING CURB.
4. WHEN WIDENING WEST OF ARCH IS COMPLETED AND APPLYING TRAFFIC, RAIL I MAY BE REMOVED AND REPAIRED FROM PIER 17 TO WEST ARCH ABUT.



NOTE:  
All dimensions shown are for estimating only.  
Dimensions are face to face of concrete.  
For further details of temporary guard rail location see TEMPORARY GUARD RAIL

AS BUILT PLANS  
Contract No. 55-14V62  
Date Completed \_\_\_\_\_  
Document No. 70002012

STATE OF CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF HIGHWAYS

WIDENING OF L.A. RIVER BR.  
E.O.H. AT ALISO STREET  
RAILING LAYOUT '1

SCALE NONE BRIDGE C-3243-9 FILE DRAWING C-3243-9

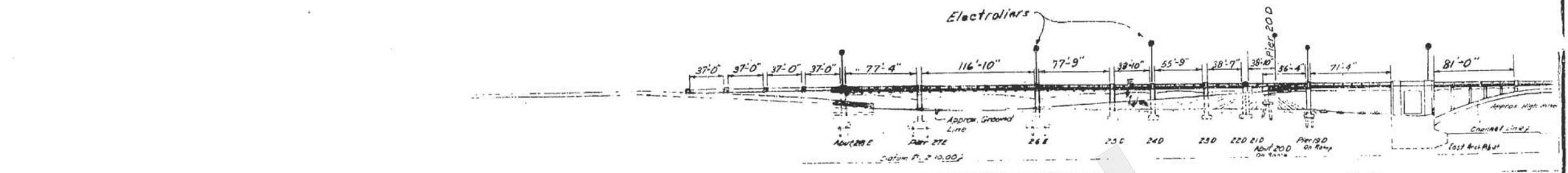
PREL. DRAWING NO. P. 3243-9 1935 10/11/35

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

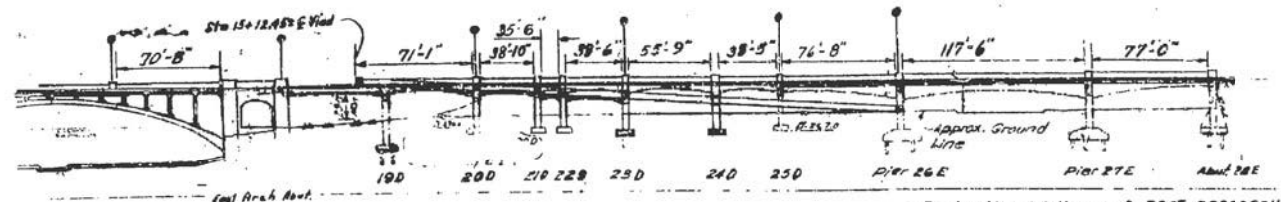
DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_ TITLE \_\_\_\_\_

75

|                                      |      |             |        |      |          |
|--------------------------------------|------|-------------|--------|------|----------|
| STATE                                | CAL. | PROJECT NO. | 53-405 | DATE | 10-11-55 |
| DISTRICT                             | 7    | SECTION     | LA     | NO.  | 101      |
| 101 <i>A. Secor</i><br>DATE 10-11-55 |      |             |        |      |          |

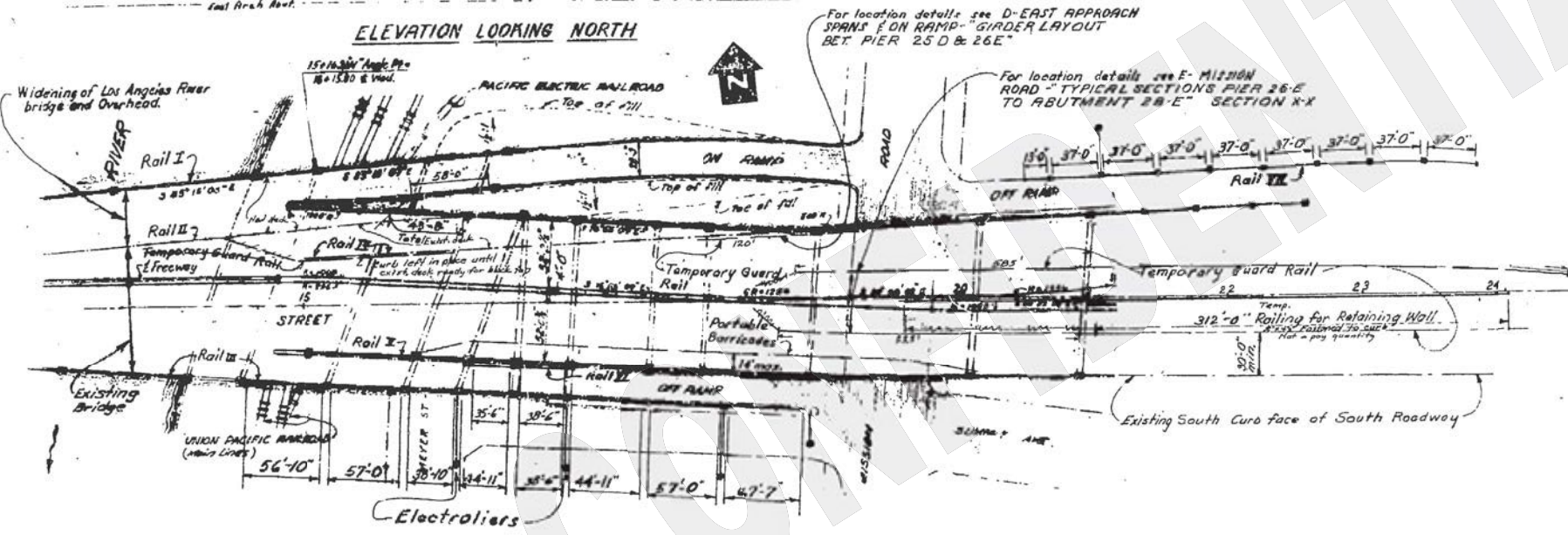


ELEVATION LOOKING SOUTH



ELEVATION LOOKING NORTH

- SEQUENCE OF RAIL WORK
1. RAIL II ON ARCH TO REMAIN IN PLACE UNTIL ARCH WIDENING IS COMPLETED.
  2. WHEN WORK IS BEING DONE ON EAST ARCH ABUT. AND THE WEST PORTION OF SECTION D, TEMPORARY GUARD RAIL WILL BE PLACED FROM PIER 200 TO STA. 15+05.17 & VIAD. AND THENCE TO WEST END OF EAST ARCH ABUT. AS SHOWN.
  3. RAIL III FROM PIER 200 TO PIER 250 TO REMAIN IN PLACE UNTIL ADJACENT WIDENING, INCLUDING NEW RAIL, IS COMPLETED. CLOSE GAPS LEFT BY REMOVAL OF POSTS AT PIERS WITH TEMPORARY RAIL.
  4. RAIL IV FROM PIER 260 TO STA 22+125 @ VIAD. TO REMAIN IN PLACE UNTIL WORK NEAR E VIADUCT FROM PIER 260 TO TUNNEL PORTAL IS COMPLETED.
  5. RAIL V ON ARCH TO REMAIN IN PLACE UNTIL ARCH WIDENING IS COMPLETED AND CARRYING TRAFFIC.
  6. RAIL VI FROM EAST ARCH ABUT. TO END OF OFF RAMP MAY BE REMOVED AND REPLACED AT ANY TIME.
  7. RAIL VII ON OFF RAMP MAY NOT BE REMOVED AND REPLACED WHILE WORK IS BEING DONE ON ADJACENT PORTION OF RAIL III.
  8. RAIL VIII TO REMAIN IN PLACE UNTIL WIDENING IS COMPLETED AND CARRYING TRAFFIC.
  9. RAIL IX MAY BE REMOVED AND REPLACED AT ANY TIME.



AS BUILT  
 CORRECTIONS BY *J. H. James*  
 DATE 10-11-55

AS BUILT PLANS  
 Contract No. 55-14462  
 Date Completed \_\_\_\_\_  
 Document No. 70002012

|   |        |      |           |
|---|--------|------|-----------|
| STATE OF CALIFORNIA                             |        |      |           |
| DEPARTMENT OF PUBLIC WORKS                      |        |      |           |
| DIVISION OF HIGHWAYS                            |        |      |           |
| WIDENING OF LA RIVER BR. & O.H. AT ALISO STREET |        |      |           |
| RAILING LAYOUT #2                               |        |      |           |
| SCALE   | BRIDGE | FILL | DRAWING   |
| NONE  | 53-405 |      | C-3243-10 |
| PREL. DRAWING NO. P-3243                        |        |      |           |

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

BRIDGE DEPARTMENT  
SECTION

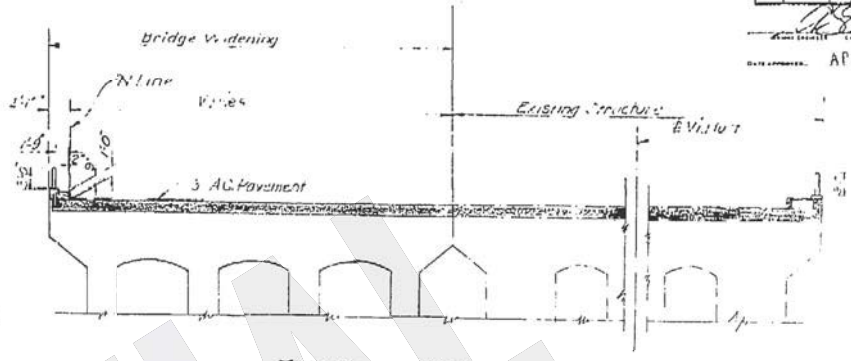
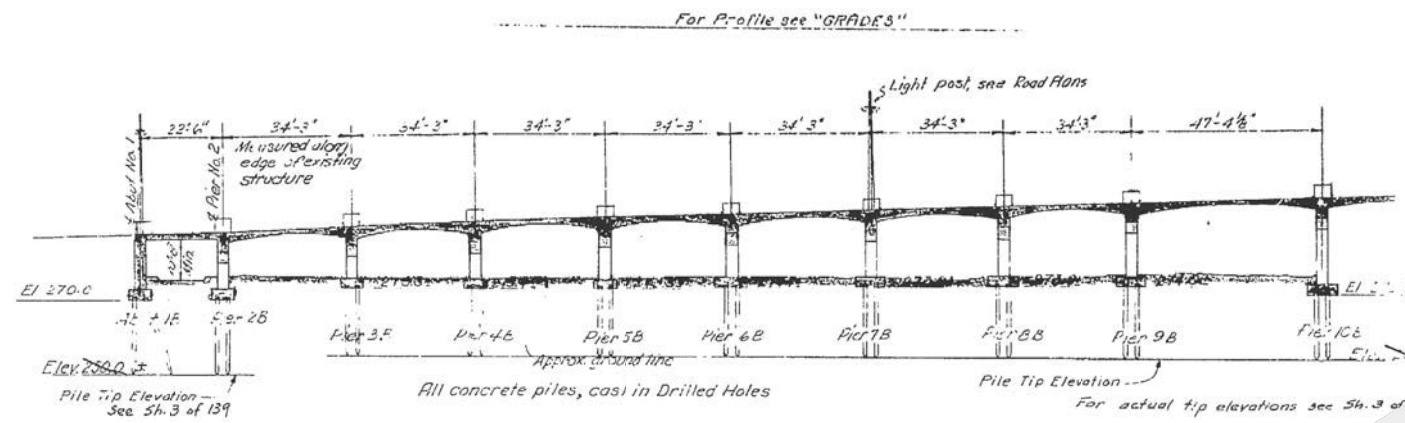
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|----------------|-------------|
| DATE           | 10-11-55    |
| BY             | J. H. James |
| CHECKED        |             |
| APPROVED       |             |
| QUANTITIES     |             |
| SPECIFICATIONS |             |
| NOTES          |             |

105

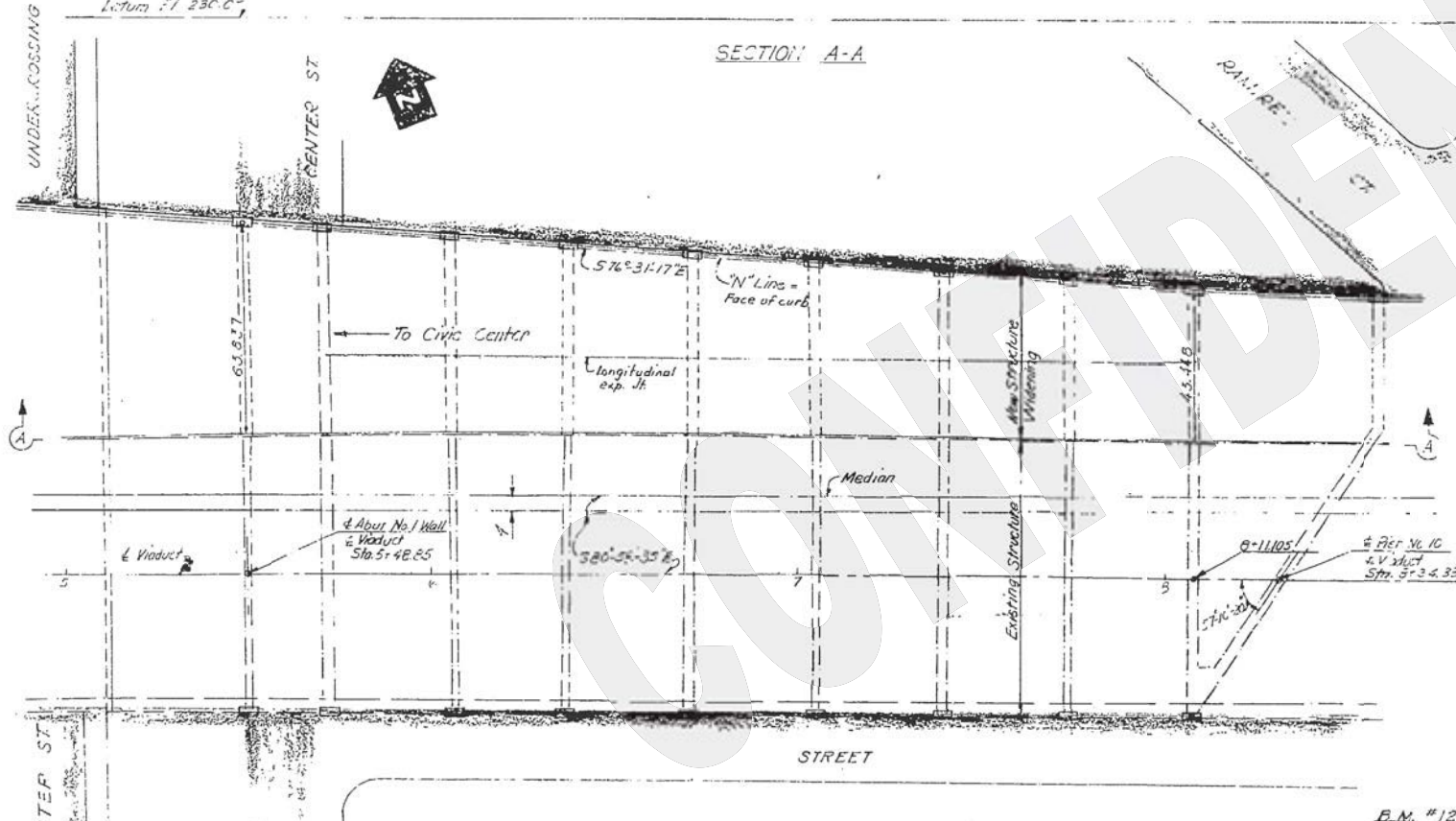
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|---------------------|-------|-------------|--------------|---------|--------------|
| 7                   | CAL.  |             |              |         |              |

| DATE        | BY | REVISION |
|-------------|----|----------|
| APR. 21 '44 |    |          |

APR. 21 '44



TYPICAL SECTION  
SCALE: 1" = 10'



INDEX TO PLANS

- Sheet No. Title
- B-1 Structure Plan No. 1
- B-2 Structure Plan No. 2
- B-3 Foundation Plan No. 1
- B-4 Foundation Plan No. 2
- B-5 Grade
- B-6 Underground Utilities sheet No. 1
- B-7 Underground Utilities sheet No. 2
- B-8 Rout. 1-B To Pier 2-Layout & Details
- B-9 Pier No. 3-B
- B-10 Pier No. 4-B
- B-11 Pier No. 5-B
- B-12 Pier No. 6-B
- B-13 Pier No. 7-B
- B-14 Pier No. 8-B
- B-15 Pier No. 9-B
- B-16 Piers No. 10-B & 12-B
- B-17 Piers No. 13-B, 14-B & 15-B
- B-18 Piers No. 16-B & 17-B
- B-19 Typical Sections
- B-20 Pier 2-B To Pier 5-B Deck Reinforcement
- B-21 Pier 5-B To Pier 9-B Deck Reinforcement
- B-22 Pier 9-B To Pier 13-B Deck Reinforcement
- B-23 Pier 13-B To Pier 16-B Deck Reinforcement
- B-24 Pier 16-B To Pier 17-B Deck Reinforcement
- B-25 Prestressed Girder Layout Between Pier 17-B & West Arch Abutment Bent
- B-26 Prestressed Girder Details Between Pier 17-B & West Arch Abutment Bent

AS BUILT

CORRECTIONS BY: *[Signature]*  
DATE: 12-17-55

For General Notes see "INDEX SHEET"

Note: All dimensions and lines dependent upon existing structure shall be verified in the field by the Contractor.

For details of Sliding Plate Seaming & Sealing See D-East Approach Span, 4th Temp. Interchange 43 Required

For details of electrical and concrete part see A-Center Street Undercrossing sheet No. A-21

Bituminous Type Treatment (BT) is Applied to Concrete

B.M. # 12-X Elev. 272.94  
Set copper nail in lead in concrete footing N. side Abut. of Bridge, between L.R. River & RT & S.F.R.R. tracks, west side of River 21' west of River retaining wall.

T.B.M. Elev. 275.635  
Wire spike on S.E. corner Center & Rt. 1.4' S. of B.C.R. on center of (S. of Bridge)

AS BUILT PLANS  
Contract No. 55-14V62  
Date Completed \_\_\_\_\_  
Document No. 70007012

PLAN

|   |                 |      |                 |
|---|-----------------|------|-----------------|
| STATE OF CALIFORNIA<br>DEPARTMENT OF PUBLIC WORKS<br>DIVISION OF HIGHWAYS |                 |      |                 |
| WIDENING OF L.A.R. 16th ST. OVER 7th ST.                                  |                 |      |                 |
| B-WEST APPROACH   |                 |      |                 |
| STRUCTURAL PLAN No. 1   |                 |      |                 |
| SCALE: 1" = 10'   | BRIDGE 55-14V62 | FILE | DRAWING 3243-37 |
| PREL. DRAWING NO. P-3243  |                 |      |                 |

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

DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_ TITLE \_\_\_\_\_

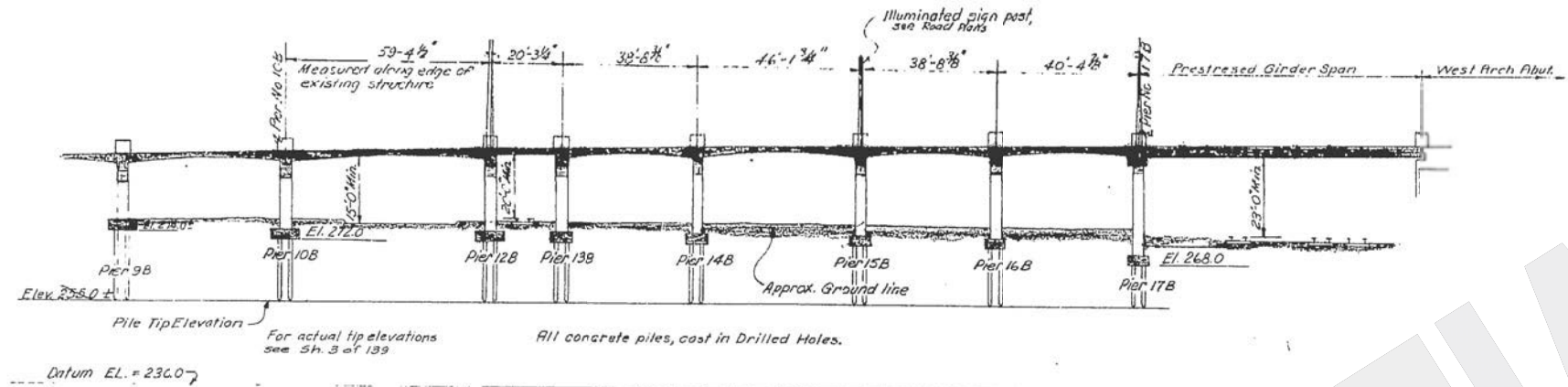
106

|             |       |             |         |       |              |
|-------------|-------|-------------|---------|-------|--------------|
| PROJECT NO. | STATE | PROJECT NO. | PIERCES | SHEET | TOTAL SHEETS |
| 7           | CAL.  |             |         |       |              |

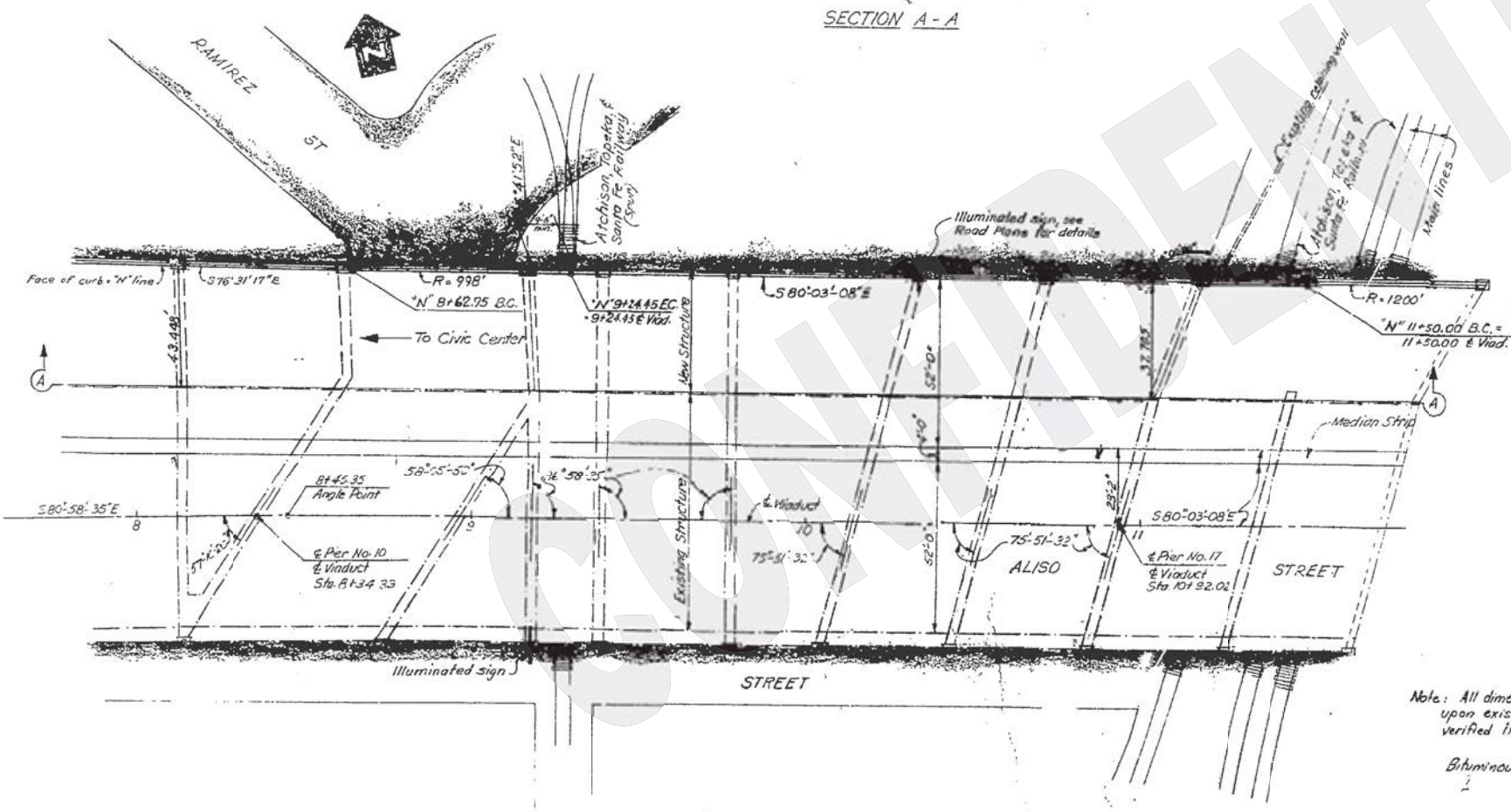
  

|      |          |     |         |     |                |
|------|----------|-----|---------|-----|----------------|
| DATE | CONTRACT | NO. | SECTION | NO. | TOTAL SECTIONS |
|      | 55-1462  |     |         |     |                |

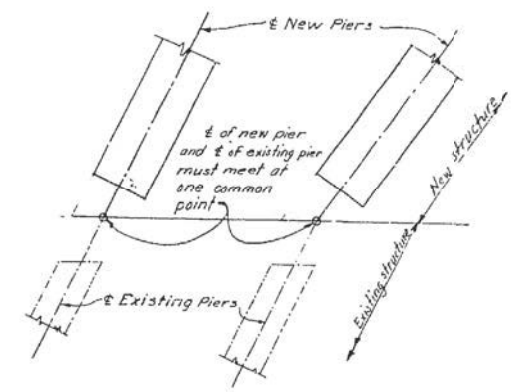
APPROVED: *[Signature]*  
DATE: 10-18-55



SECTION A-A



PLAN



TYPICAL PIER LAYOUT  
no scale

AS BUILT

CORRECTIONS BY: *[Signature]*  
DATE: 10-18-55

Note: All dimensions and lines dependent upon existing structure shall be verified in the field by the Contractor.

Bituminous Type Treatment (B.T.T.) is Asphalt Concrete.

**AS BUILT PLANS**  
 Contract No. 55-1462  
 Date Completed \_\_\_\_\_  
 Document No. 70002012

STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS

WIDENING OF L.A. RIV. BR. & OH. AT ALISO STREET  
 B- WEST APPROACH  
 STRUCTURE PLAN No. 2

1" = 20' except  
 SCALE as noted

BRIDGE 53-405 FILE DRAWING 3243-38

PHYL. DRAWING NO. P-3243

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

DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ TITLE: \_\_\_\_\_

**As-Built Plans**  
**Alameda Street Underpass, Bridge No. 53-0782**

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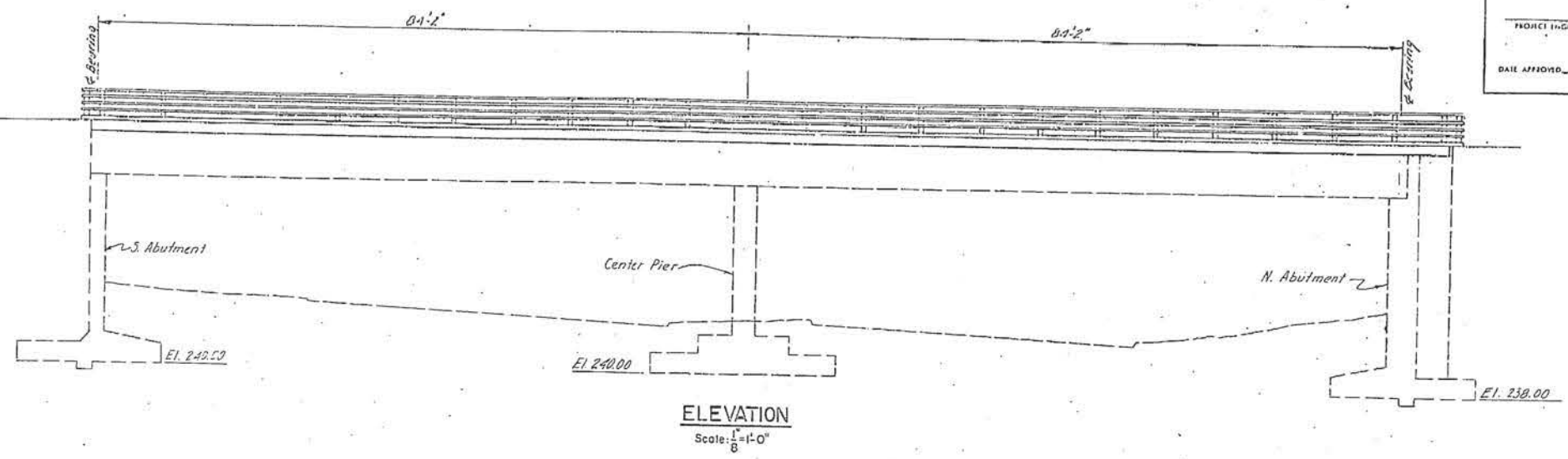
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL

|      |       |       |           |           |
|------|-------|-------|-----------|-----------|
| Des. | Drawn | Rev.  | Proj. No. | Sheet No. |
| 07   | L.A.  | 11/16 | 53-782    | 209       |

PROJECT ENGINEER  
*U. C. Chang*  
 REGISTERED CIVIL ENGINEER  
 NO. 25237

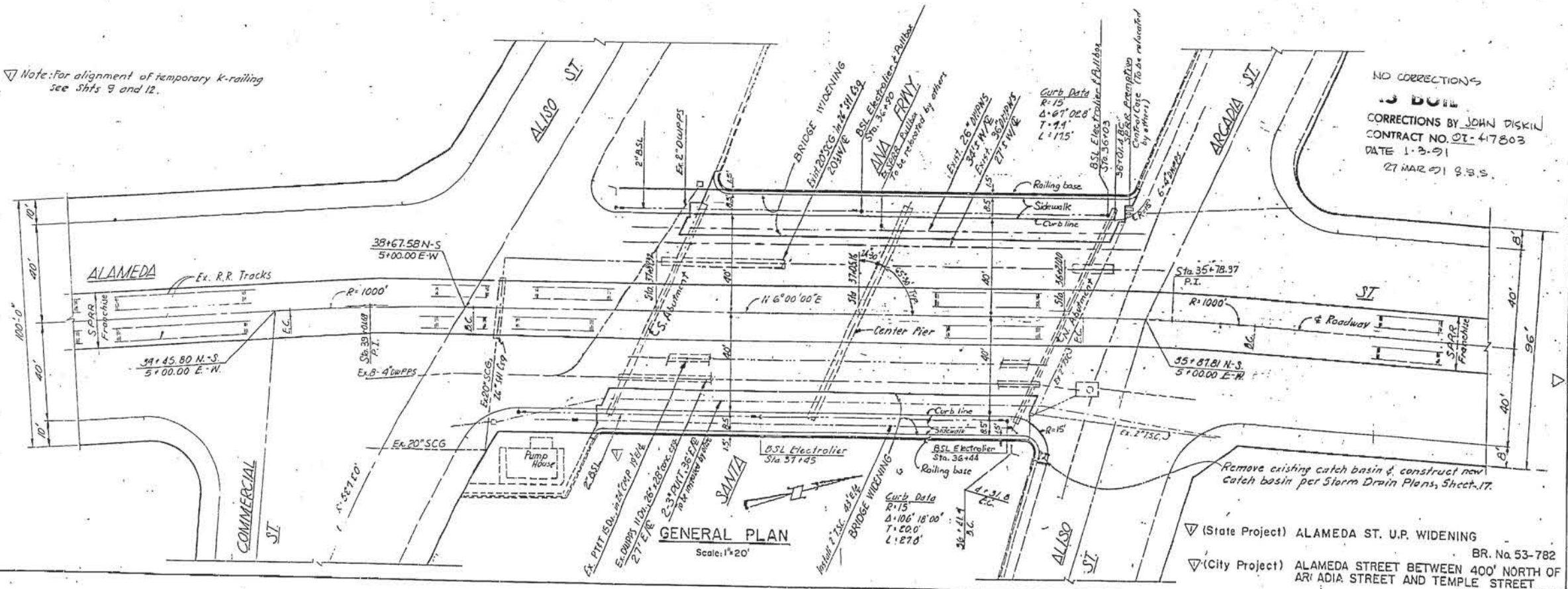
DATE APPROVED: September 16, 1985

|            |              |                |        |
|------------|--------------|----------------|--------|
| DESIGNED   | S. F. Fitch  | P. F. Fournier | 5/1/80 |
| DRAWN      | J. K. Hahn   |                | 5-75   |
| CHECKED    | R. H. Conner |                | 5/1/80 |
| SUPERVISED | P. H. Lee    |                | 5/1/80 |



PLAN B. ELEVATION

Note: For alignment of temporary k-railing see Shfts 9 and 12.



NO CORRECTIONS  
 J. D. B. J.  
 CORRECTIONS BY JOHN DISKIN  
 CONTRACT NO. 07-47803  
 DATE 1-2-91  
 27 MAR 91 9:33 S.

(State Project) ALAMEDA ST. U.P. WIDENING BR. No 53-782  
 (City Project) ALAMEDA STREET BETWEEN 400' NORTH OF ARCADIA STREET AND TEMPLE STREET V.I.D. 61584

|     |   |      |
|-----|---|------|
| NO. | REVISION DESCRIPTION                                      | DATE |
| 1   | Revised for State Contract and added State project title. | 3-83 |

CITY OF LOS ANGELES CITY ENGINEER  
 DONALD C. TILLMAN

DATE: 12-21-90  
 1082  
*Donald C. Tillman*  
 Professional Engineer

**AS BUILT PLANS**  
 Contract No. 07-417804  
 Date Completed 12-21-90  
 Document No. \_\_\_\_\_

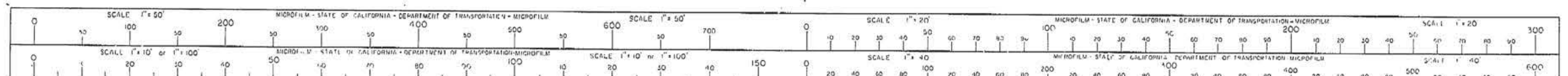
L.A.C.E. INDEX  
 SCALES  
 HORIZ. 1" = 40' Station  
 VERT. 1" = 20' Station  
 SHEET 6

INDEX NUMBER D-27658

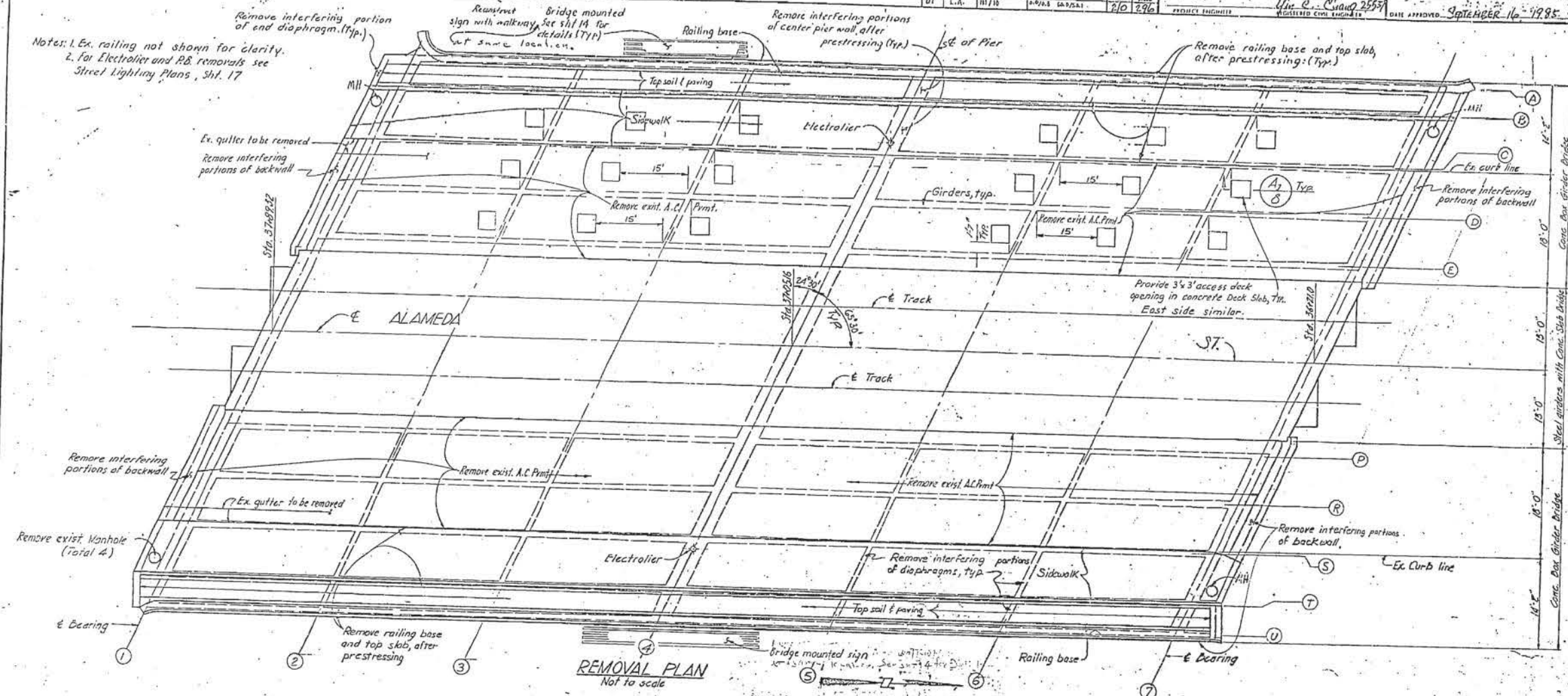
FINAL ORIGINAL

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

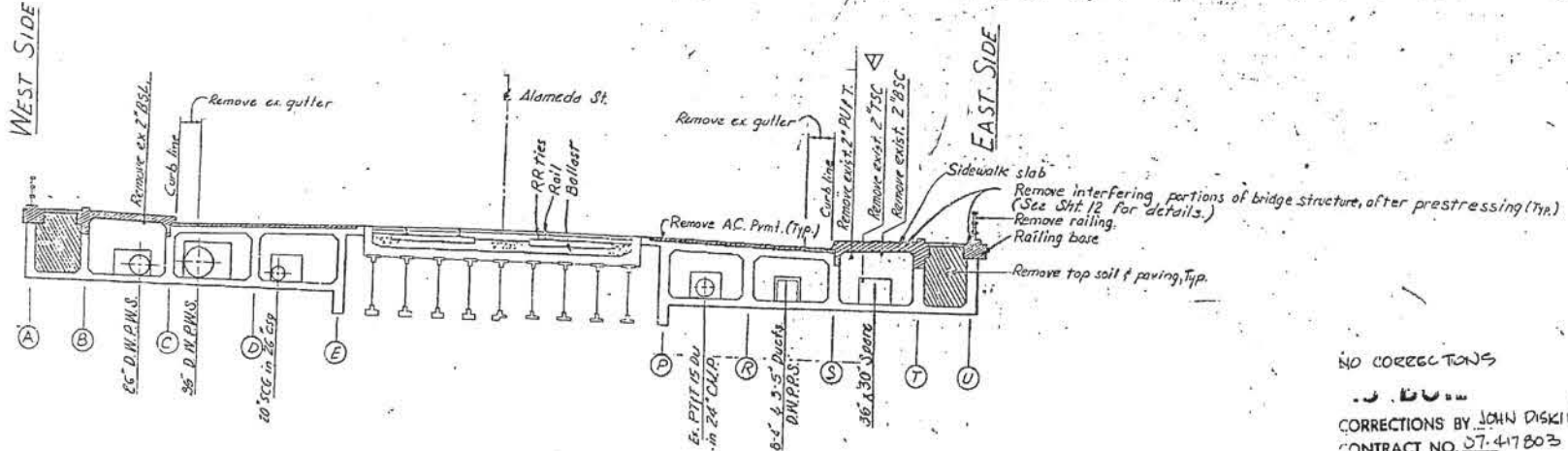
*Donald C. Tillman*



Notes: 1. Ex. railing not shown for clarity.  
2. For Electrolier and R.R. removals see Street Lighting Plans, Sht. 17.



REMOVAL PLAN  
Not to scale



REMOVALS OF EXISTING BRIDGE  
TYPICAL SECTION  
Not to scale

Note: All cross-hatched areas to be removed.  
Existing bridge plans included in Special Provisions.

Note: Existing reinforcement in diaphragms, center pier wall and abutment walls shall be preserved and extended a minimum of 2'-0" into new construction.

LEGEND

- (A<sub>3</sub>) Section 2' Taken on Sheet No. 3 Shown on Sheet No. 12
- (2) Detail 2' Shown on Sheet No. 16

NO CORRECTIONS  
CORRECTIONS BY JOHN DISKIN  
CONTRACT NO. 07-417803  
DATE 1-3-81

(State Project) ALAMEDA ST. U.P. WIDENING BR. No. 53-782

(City Project) ALAMEDA STREET L. WEEN 400' NORTH OF ARCADIA STREET AND TEMPLE STREET W/O. 61584

|            |      |
|------------|------|
| DESIGNED   | DATE |
| 3/1/85     | 5/78 |
| CHECKED    | DATE |
| 5/78       | 5/78 |
| SUPERVISED | DATE |
| 5/78       | 5/78 |

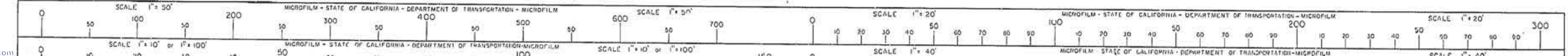
REMOVAL PLAN

|     |  |      |
|-----|--|------|
| NO. | REVISION DESCRIPTION                                 | DATE |
| 1   | REVISED FOR THIS PROJECT & ADDED STATE PROJECT #1100 | 3-83 |

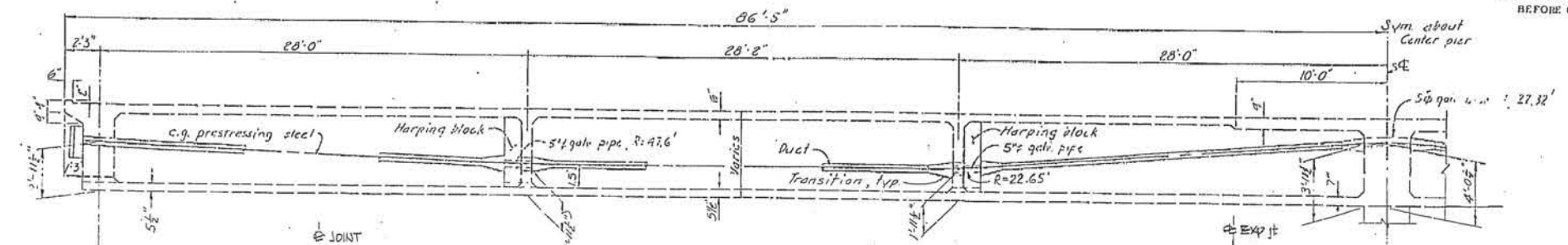
CITY OF LOS ANGELES  
DONALD C. TILLMAN CITY ENGINEER  
DATE: 12-21-90  
BY: [Signature]

AS BUILT PLANS  
Contract No. 07-417804  
Date Completed 12-21-90  
Document No. \_\_\_\_\_

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

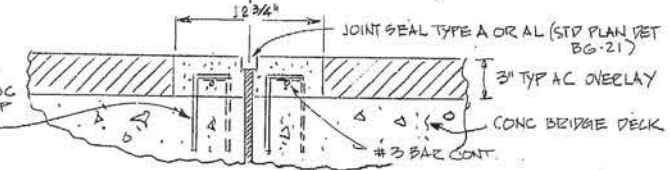


THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

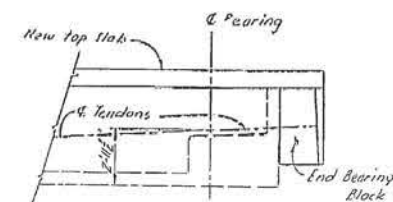
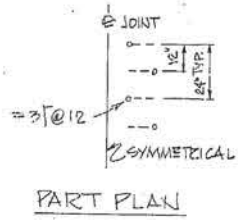


TYPICAL TENDON PROFILE BETWEEN GIRDERS B&E AND BETWEEN GIRDERS P&T  
Scale: 1/4"=1'-0"

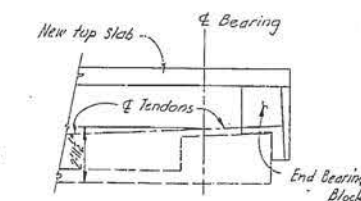
- CONSTRUCTION NOTES
1. SAW CUT 3" AC OVER LAY.
  2. CHIP OUT AC
  3. SET DOWELS (4" EMBEDMENT) REBAR
  4. MIX AND PLACE RAPID SET CONCRETE WITH 60% 3/8" MAX AGGREGATE
  5. SAW, CHIP, AND INSTALL JOINT SEAL, TYPE A
  6. WHERE 1/2 OF PAVEMENT EXPANSION DAM IS EXISTING, BUILD AS DETAIL FOR OPPOSITE 1/2 OF EXP DAM.



EXPANSION DAM CCO # 82 6/12/85



TYPICAL TENDON PROFILE BETWEEN GIRDERS T&U  
Scale: 1/4"=1'-0"



TYPICAL TENDON PROFILE BETWEEN GIRDERS A&B  
Scale: 1/4"=1'-0"

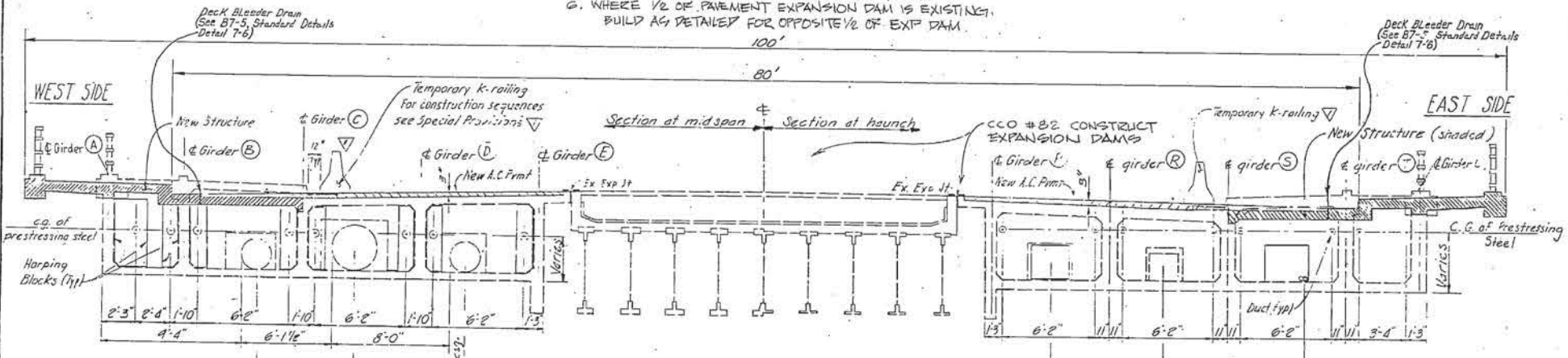
AS BUILT  
CORRECTIONS BY JOHN DISKIN  
CONTRACT NO. 07-417803  
DATE 1-3-91  
27 MARCH 1991

|          |            |            |         |
|----------|------------|------------|---------|
| DESIGNED | W. C. Clay | DATE       | 9-16-85 |
| DRAWN    | D. J. ...  | CHECKED    | ...     |
| APPROVED | ...        | SUPERVISED | ...     |

PRESTRESSING STEEL DETAILS

|     |                      |        |
|-----|----------------------|--------|
| NO. | REVISION DESCRIPTION | DATE   |
| 1   | AS BUILT CORRECTIONS | 1-3-91 |

CITY OF LOS ANGELES  
DONALD C. TILLMAN  
CITY ENGINEER  
DATE: 1-3-91



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

PRESTRESSING NOTES

1. The following applies to each of the two bridge sections. Each section contains five (5) girders.
2. Design is based on  $u=0.25$  and  $k=0.0002$ . Pjacking specified at the jacking end includes friction loss, anchorage loss, creep and elastic shortening (total 56.24 ksi).
3. Tendons to be jacked to 0.75  $F_s$  and anchored at a minimum equivalent anchor set = 0.025 inches.
4. Contractor shall submit elongation and jacking calculations based on initial stress of 0.933 times jacking stress at non-stressing end.
5. The design is based on one end prestressing. Half of the prestressing steel in the member shall be stressed from one end and the other half from the opposite end. In the event the Contractor wishes to stress tendons simultaneously from both ends, he shall submit to the Engineer, for approval, details and supporting calculations prepared by a registered Civil or Structural Engineer by the State of California.
6. Distribution of prestressing force: Unless otherwise noted, the prestressing force shall be distributed with an approximately equal amount in each tendon and shall be placed symmetrically about the cross section.
7. Stressing Sequence: No more than 1/2 of the prestressing force in any girder may be stressed before an equal force is stressed in the adjacent girders. At no time during the stressing operations will more than 1/2 of the total prestressing force be applied eccentrically about the center of gravity of the section.
8. The Contractor shall install the C4 x 5.4 steel girder web bracing at locations designated on the plans prior to prestressing. They shall remain in place. The Contractor shall submit shop drawings showing the connection details of the web bracing to the existing girders, to have compression and/or tension, for the Engineer's approval.
9. Harping shall be grouted into place a minimum of 14 days before prestressing.

Note: All reinforced concrete shall be normal Class A concrete except the new deck, sidewalk and railing base which shall be lightweight concrete. End bearing and harping blocks shall be 5000psi concrete.

DESIGN DATA

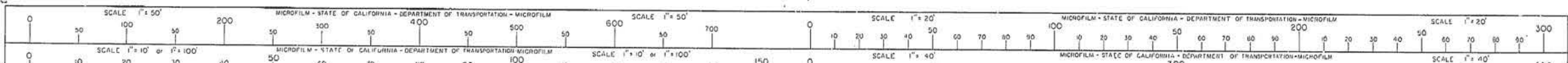
- Governing Code  
AASHTO Standard Specifications for Highway Bridges (1977 Eleventh Edition) including AASHTO Interim Specifications (1981)
- Loads  
Live load: HS20-44 (WSB)  
Lateral earth pressure: 36 pcf EFP plus 2ft. surcharge
- Stresses  
Lightweight concrete:  $F_c = 3250$  psi at 28 days  
 $F_c = 1300$  psi  
Concrete not in prestressed area:  $F_c = 3250$  psi  
 $F_c = 1300$  psi  
Concrete bearing / harping blocks:  $F_c = 5000$  psi at 28 days  
 $F_c = 2,000$  psi  
Reinforcing steel:  $F_s = 24,000$  psi  
Prestressed steel wire:  $F_s = 270,000$  psi  
Temporary stress before loss due to creep and shrinkage:  $0.70 F_s = 189,000$  psi

(State Project) ALAMEDA ST, U.P. WIDENING BR. No. 53-782  
(City Project) ALAMEDA STREET BETWEEN 400' NORTH OF ARCADIA STREET AND TEMPLE STREET W.O. 61584

SCALES: HORIZ. 1" = 45' SHOWN, VERT. 1" = 45' SHOWN  
SHEET 9  
INDEX NUMBER D-27658

AS BUILT PLANS  
Contract No. 07-417804  
Date Completed 12-21-90  
Document No. \_\_\_\_\_

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



THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

|                  |                |
|------------------|----------------|
| DATE             | 2/13/90        |
| PROJECT ENGINEER | Min C. Oberger |
| DATE APPROVED    |                |

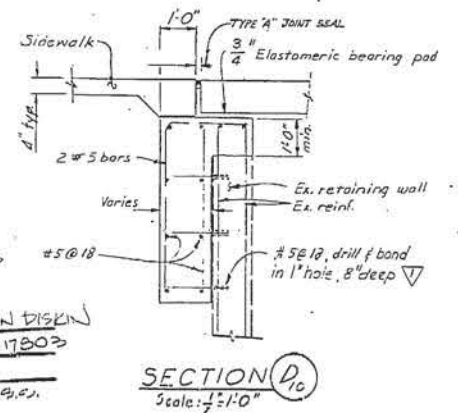
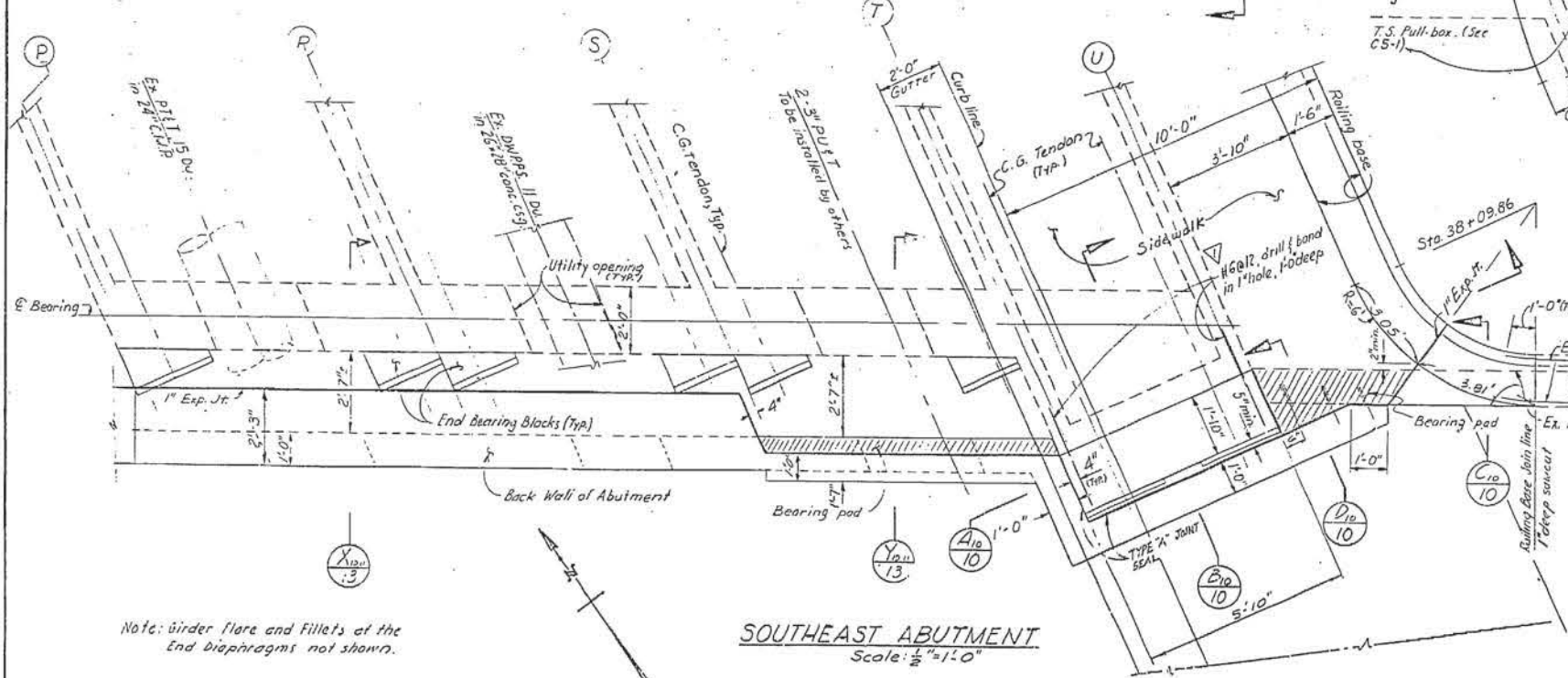
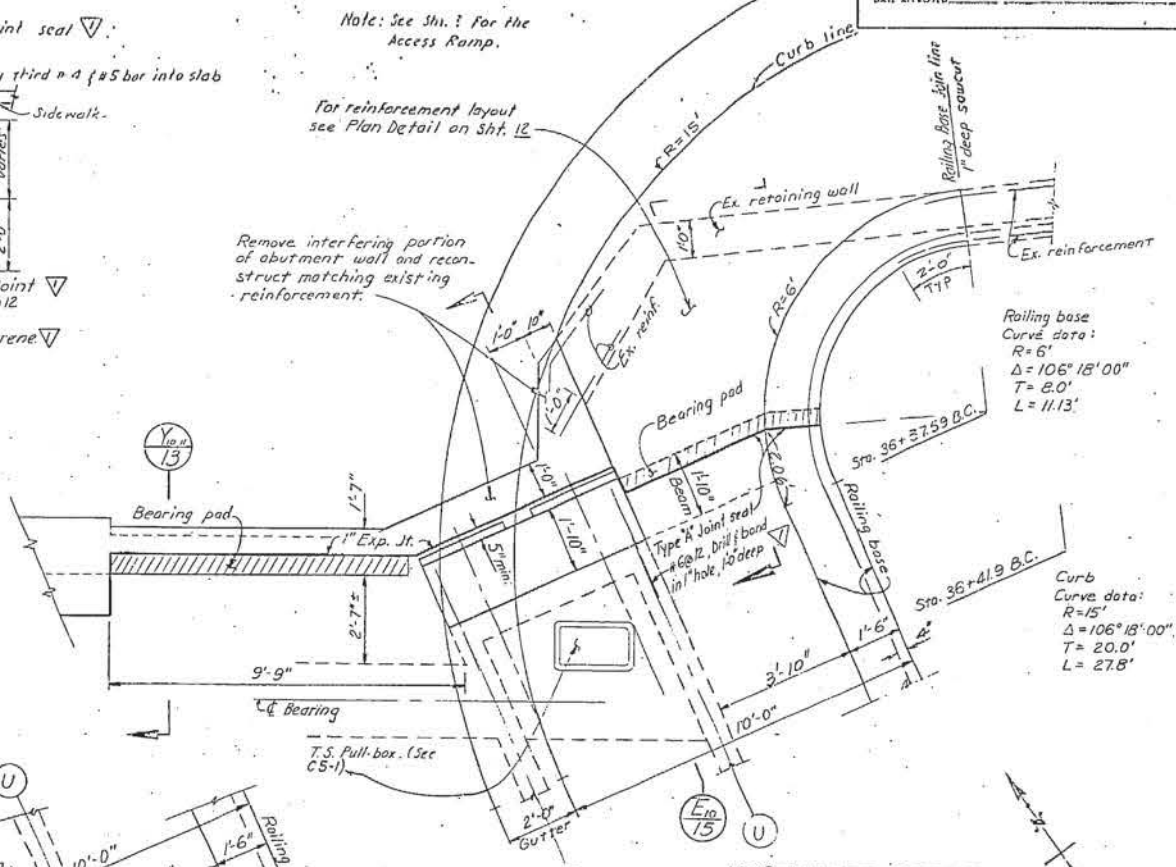
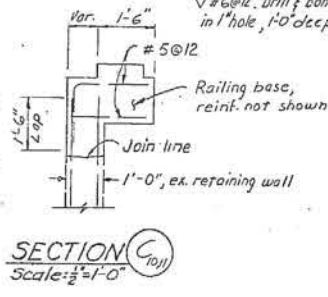
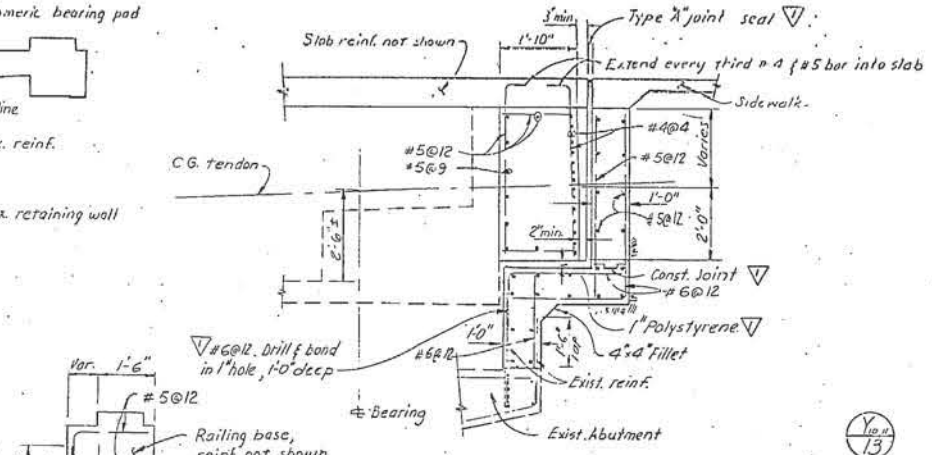
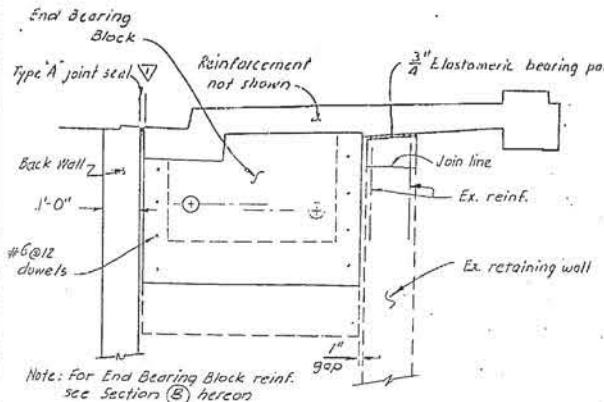
|                  |                |
|------------------|----------------|
| DESIGNED         | John G. Hansen |
| CHECKED          | John G. Hansen |
| SUPERVISED       | R. Horvath     |
| PROJECT ENGR.    | R. E. NO       |
| ASST. DIV. ENGR. | R. E. NO       |

**CORNER DETAILS EAST SIDE**

|     |   |        |
|-----|---|--------|
| NO. | REVISION DESCRIPTION                                    | DATE   |
| 1   | Revised for state contract and added state file project | 3-9-90 |

|     |   |        |
|-----|---|--------|
| NO. | REVISION DESCRIPTION                                    | DATE   |
| 1   | Revised for state contract and added state file project | 3-9-90 |

CITY OF LOS ANGELES  
 DONALD C. TILLMAN  
 CITY ENGINEER  
 DATE 3-13-90  
 [Signature]



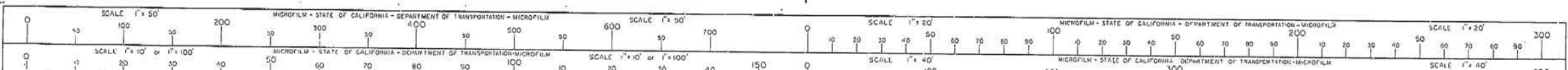
**AS BUILT**  
 CORRECTIONS BY JOHN DISKIN  
 CONTRACT NO. 07-417803  
 DATE 1-3-91  
 27 MAR 91 S.S.C.

(State Project) ALAMEDA ST. U.P. WIDENING BR. No. 53-782  
 (City Project) ALAMEDA STREET BETWEEN 400' NORTH OF ARCADIA STREET & TEMPLE STREET W.C. 61584

SCALES: HORIZ. 1" = 45' AS SHOWN; VERT. 1" = 45' AS SHOWN; SHEET 10; INDEX NUMBER D-27658

**AS BUILT PLANS**  
 Contract No. 07-417804  
 Date Completed 12-21-90  
 Document No. \_\_\_\_\_

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



**As-Built Plans**  
**Los Angeles Street Overcrossing, Bridge No. 53-0629**

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Submitted *Oct 17* 1945  
 ENGINEER, BRIDGE & STRUCTURAL DESIGN  
 Approved *Jan 17* 1946  
 CITY ENGINEER, CITY OF LOS ANGELES

P.M. 0.9  
 DIST. COUNTY ROUTE SECTION FIRST TOTAL  
 VII L.A. 2 L.A. 6 1 3  
 February 28, 1946  
 STATE ENGINEER, CALIFORNIA  
 CITY ENGINEER, CITY OF LOS ANGELES

**AS BUILT PLANS**  
 Contract No. 14VC84  
 Date Completed \_\_\_\_\_  
 Document No. 70001957

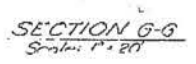
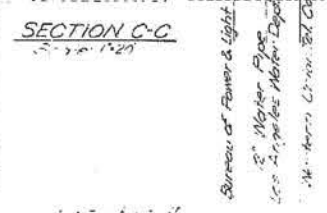
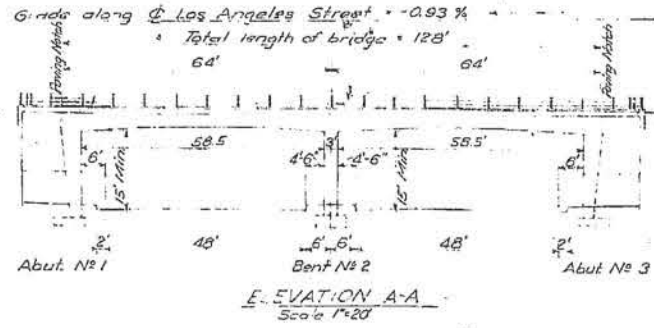
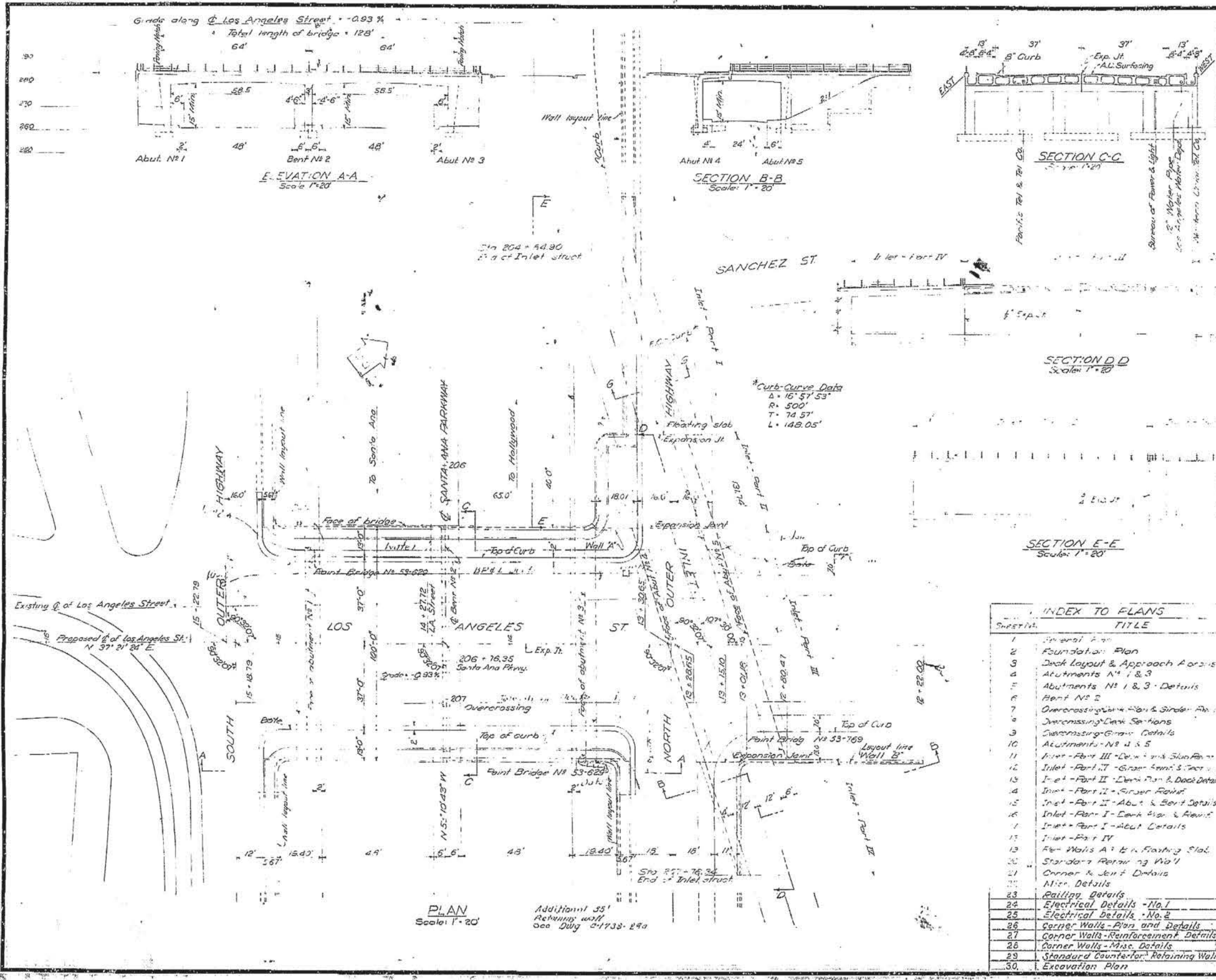
**REFERENCES**  
 District Maps 5514  
 Field Books 18413, 19618, 20120, 20168  
 Sewer Plans D-3101, D-3104, D-7829, D-7930  
 Records of Los Angeles City Eng. Div.

THIS SET OF PLANS IS THE PROPERTY OF THE CITY OF LOS ANGELES. IT IS TO BE KEPT IN THE OFFICE OF THE CITY ENGINEER. IT IS TO BE RETURNED TO THE CITY ENGINEER'S OFFICE UPON THE COMPLETION OF THE WORK.

**GENERAL NOTES**  
 Specifications:  
 Design: A.A.S.H.T.O. 1944 and subsequent revisions  
 Construction: Standard Specifications dated April, 1945 and special provisions accompanying this set of plans.  
 Design Data:  
 Live load: H20-S16-44  
 $E = 1,000,000$  pounds per sq. inch  
 $G = 18,000$  pounds per sq. inch  
 $n = 10$   
 Maximum soil pressure: 3 tons per sq. ft.  
 Bench marks: See Sheet 1182  
 Note: Refer to "Cover Sheet" for Index to Specifications, Storm Drain, Sewer, and R.I. Plans.

| SHEET NO. | TITLE  |
|-----------|--|
| 1         | General Plan                                     |
| 2         | Foundation Plan                                  |
| 3         | Deck Layout & Approach Formis                    |
| 4         | Abutments No. 1 & 3                              |
| 5         | Abutments No. 1 & 3 - Details                    |
| 6         | Bent No. 2                                       |
| 7         | Overcrossing Deck Plan & Sinder Plan             |
| 8         | Overcrossing Deck Sections                       |
| 9         | Overcrossing Girder Details                      |
| 10        | Abutments No. 4 & 5                              |
| 11        | Inlet - Part III - Deck, Reinforcement & Details |
| 12        | Inlet - Part II - Deck, Reinforcement & Details  |
| 13        | Inlet - Part I - Deck, Reinforcement & Details   |
| 14        | Inlet - Part II - Deck, Reinforcement & Details  |
| 15        | Inlet - Part II - Abut. & Bent Details           |
| 16        | Inlet - Part I - Deck, Reinforcement & Details   |
| 17        | Inlet - Part I - Abut. Details                   |
| 18        | Inlet - Part IV                                  |
| 19        | Retaining Wall A - Floating Slab                 |
| 20        | Standard Retaining Wall                          |
| 21        | Corner & Joint Details                           |
| 22        | Misc. Details                                    |
| 23        | Railings Details                                 |
| 24        | Electrical Details - No. 1                       |
| 25        | Electrical Details - No. 2                       |
| 26        | Corner Walls - Plan and Details                  |
| 27        | Corner Walls - Reinforcement Details             |
| 28        | Corner Walls - Misc. Details                     |
| 29        | Standard Counter for Retaining Wall              |
| 30        | Excavation Plan                                  |

**14VC84**  
 STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS  
**SANTA ANA PARKWAY  
 LOS ANGELES STREET OVERCROSSINGS  
 IN THE CITY OF LOS ANGELES, LOS ANGELES COUNTY**  
**GENERAL PLAN**  
 SCALE 1" = 20'  
 SHEET 53-629 FILE DRAWING C-1736-L4



**Curb-Curve Data**  
 $\Delta = 15^\circ 57' 53''$   
 $R = 500'$   
 $T = 74.57'$   
 $L = 148.05'$

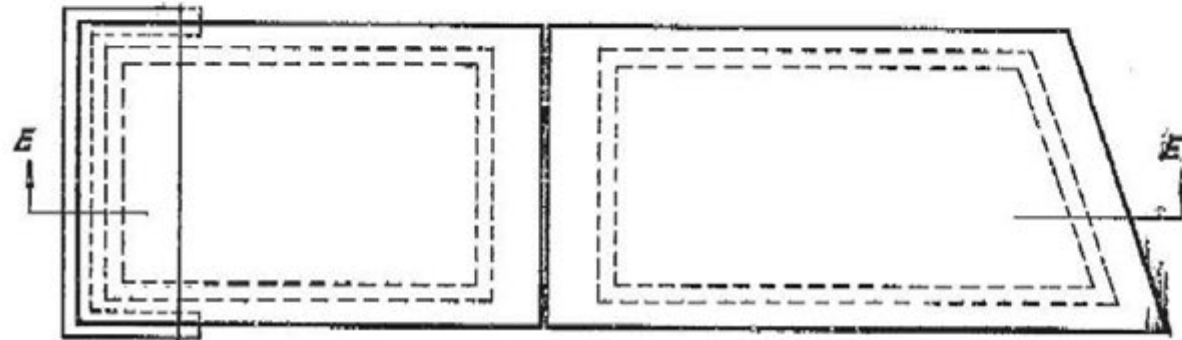
BRIDGE DEPARTMENT

DESIGNED BY  
 QUANTITIES BY  
 SPECIFICATIONS BY  
 APPROVED FOR THE CITY OF LOS ANGELES

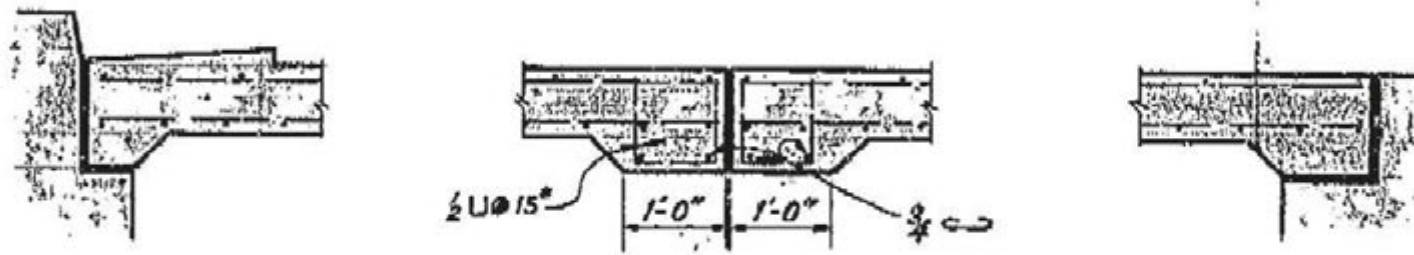
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE *5/16/61* SIGNATURE *[Signature]* TITLE *Asst. II*

STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS  
 BRIDGE DEPARTMENT

|                                     |        |       |             |
|-------------------------------------|--------|-------|-------------|
| DIST.                               | COUNTY | ROUTE | SECTION     |
| VII                                 | L.A.   | 8     | L.A.        |
| DATE APPROVED: <i>Apr. 29, 1949</i> |        |       | LICENSE NO. |



**FLOATING SLAB**  
Scale:  $\frac{3}{8}'' = 1'-0''$



**SECTION E-E**  
Scale:  $\frac{3}{8}'' = 1'-0''$

*Note:*  
Refer to contract Plans, Sheet No. 19,  
for remaining details.

DRAWN BY: *WWS* DATE: *4-49*  
 CHECKED BY: *LP* DATE: *4-49*  
*C.P. Rosenthal*

**SUPPLEMENTARY DRAWING**

|                                 |                            |
|---------------------------------|----------------------------|
| <b>LOS ANGELES ST. OVERPASS</b> |                            |
| <b>FLOATING SLAB REVISION</b>   |                            |
| SCALE: <i>As Shown</i>          | FILE NO. <i>LD-7-362</i>   |
| BRIDGE NO. <i>53-629</i>        | DRWG. NO. <i>SC-173B-1</i> |

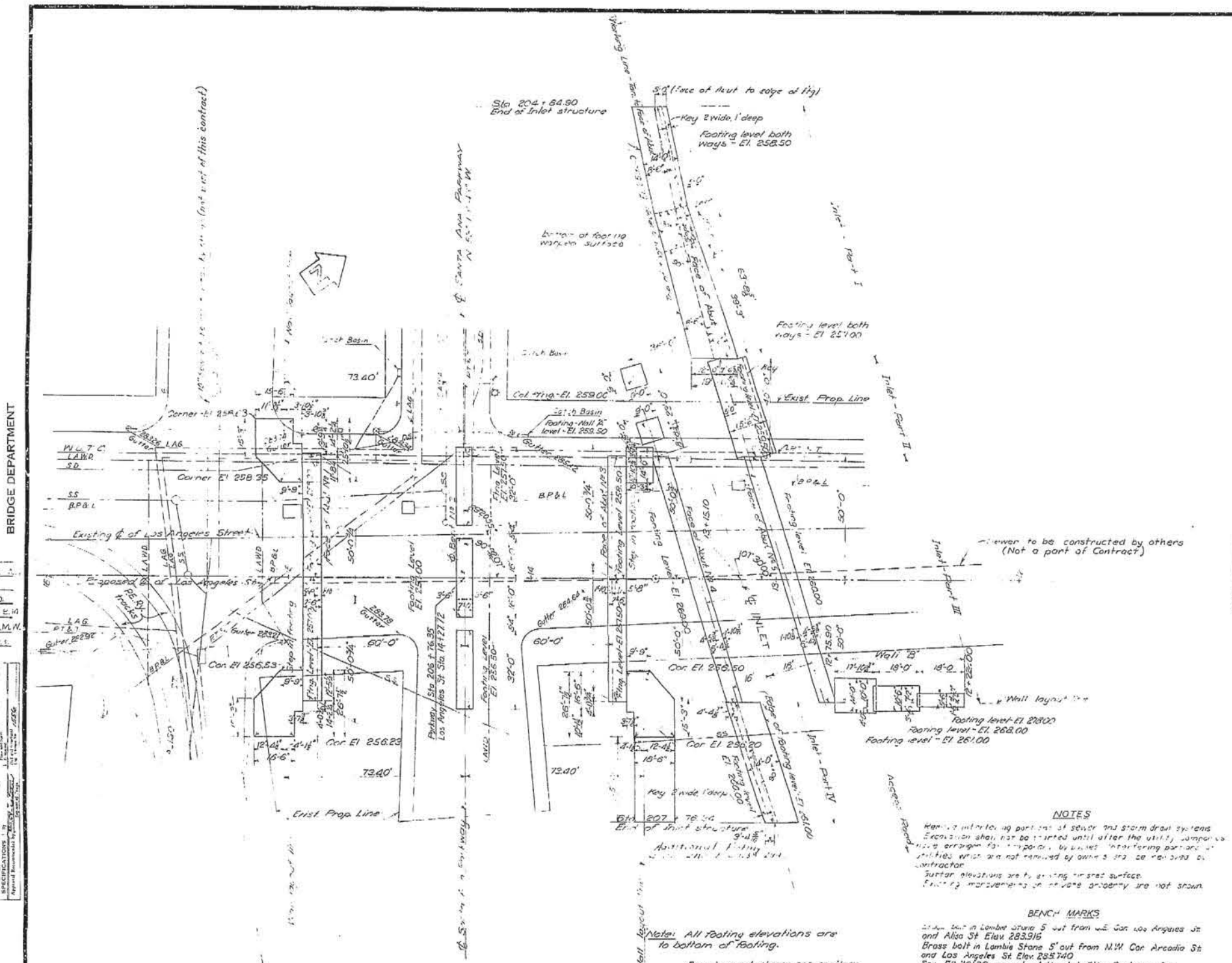
1840

| FISCAL YEAR | STATE | FISCAL YEAR | FISCAL YEAR | FISCAL YEAR | TOTAL |
|-------------|-------|-------------|-------------|-------------|-------|
| 2           | CAL   |             |             |             |       |

SUBMITTED Jan 19 1948  
 ENGINEER OF BRIDGE & STRUCTURAL DESIGN  
 APPROVED Jan 17 1949  
George Albert  
 CITY ENGINEER CITY OF LOS ANGELES

| CITY | COUNTY | PROJECT | SECTION | SHEET | TOTAL SHEETS |
|------|--------|---------|---------|-------|--------------|
| 2    | LA     |         |         | 2     | 32           |

DATE OF ISSUE: February 28, 1949



**AS BUILT PLANS**  
 Contract No. 14K84  
 Date Completed \_\_\_\_\_  
 Document No. 7000/1957

THIS SET OF PLANS HAS BEEN CHECKED TO CORRESPOND TO THE "AS BUILT" RECORDS OF THE L.A.S.C. AS SUBMITTED BY RESIDENT ENGINEER C. J. ...  
 TRACINGS CORRECTED BY: ... DATE: ...

**UTILITY LEGEND**

| ABOVE GROUND        | BELOW GROUND                         |
|---------------------|--------------------------------------|
| M.H. Manhole        | L.A.G. Los Angeles Water Dept.       |
| F.H. Fire Hydrant   | B.P.&L. Bureau of Power & Light      |
| T.S. Traffic Signal | L.A.S. Los Angeles Sewer             |
| T.P. Telephone Pole | S.S. Storm Sewer                     |
| E. Electric         | S.D. Street Drain                    |
| F.A. Fire Alarm     | T.S. Traffic Signal                  |
|                     | P.T. & T. Pacific Tel. & Tel. Co.    |
|                     | M.U.T.C. Western Union Telegraph Co. |

**NOTES**  
 Refer to other drawings for details of sewer and storm drain systems. Excavation shall not be started until after the utility companies have arranged for repairs by their entering parties. Utilities which are not shown by owner's records are shown by contractor. Elevation marks are to existing ground surface. Property measurements of private property are not shown.

**BENCH MARKS**  
 2" dia. bolt in Lambie Stone 5' out from W.E. Cor. Los Angeles St. and Aliso St. Elev. 283.915  
 Brass bolt in Lambie Stone 5' out from N.W. Cor. Arcadia St. and Los Angeles St. Elev. 285.740  
 See FB 20120 records of the L.A. City Engineer for further information.

**FOUNDATION PLAN**  
 Scale: 1" = 20'  
 For pipes not shown see sanitary sewer and storm drain plans.  
 For area available for use of Contractor see Sheet 30.

STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS

**LOS ANGELES STREET OVERCROSSINGS**

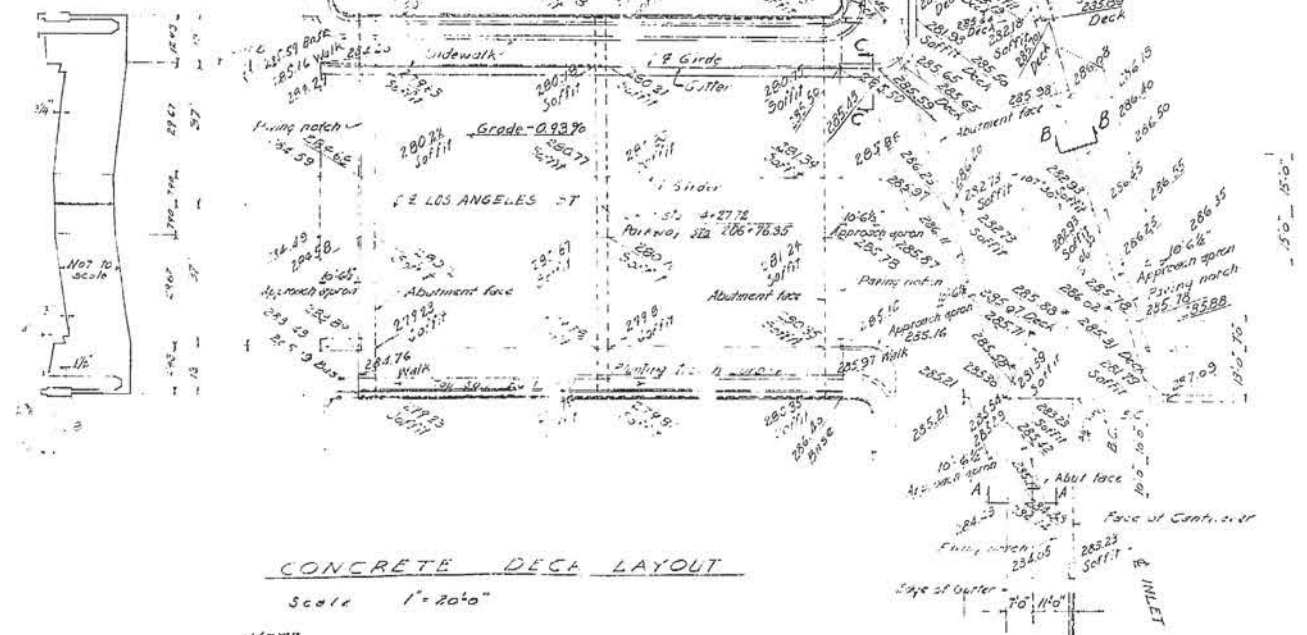
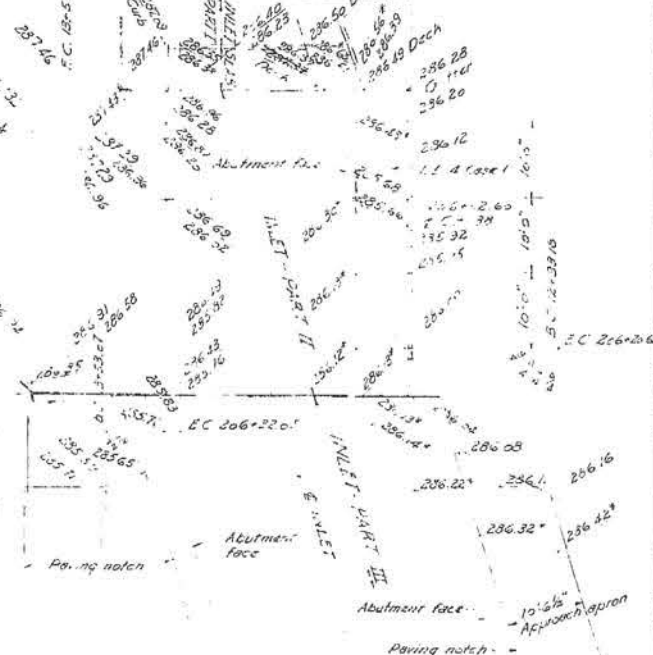
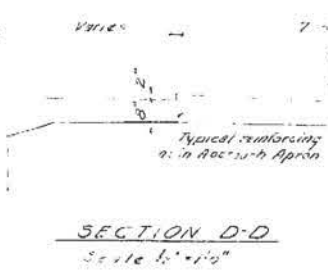
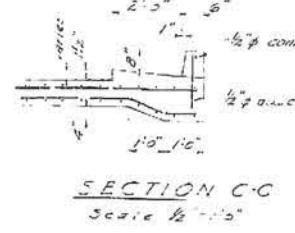
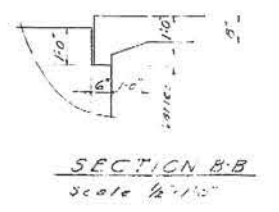
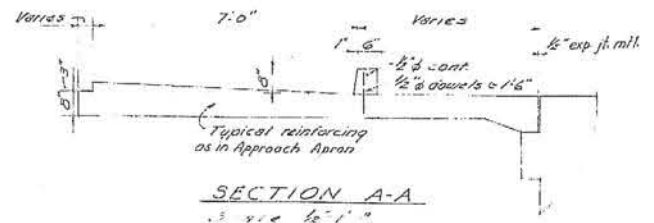
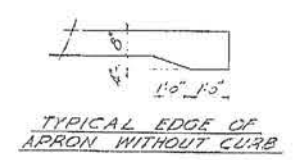
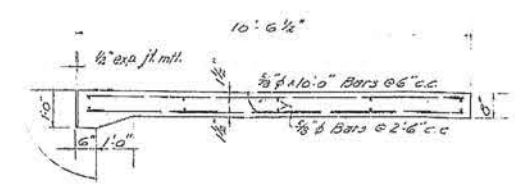
**FOUNDATION PLAN**

SCALE: 1" = 20' Bridge 53-629 Road 53-769 FILE DRAWING C-1738-2

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER THE DIRECTION AND CONTROL OF THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 5/1/51 SIGNATURE [Signature] TITLE CLERK

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| 2                   | CAL.  |           |             | 30        |              |

Submitted 10-19-49  
 Approved 1-17-50  
 Date approved: February 23, 1949



NOTE  
 Elevations are to top of concrete except as noted.  
 See Street Plans for finish surface elevations.

\* Elevation of top edge of concrete gutter

AS BUILT PLANS  
 Contract No. 147C84  
 Date Completed \_\_\_\_\_  
 Document No. 70001957

THIS SET OF PLANS AND SPECIFICATIONS IS LOANED TO THE CONTRACTOR FOR HIS USE ONLY AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS

LOS ANGELES STREET OVERCROSSINGS  
 DECK LAYOUT & APPROACH APRONS

SCALE As shown: 87108 83-330  
 4-11-50 83-769 FILE DRAWING C-1733-3

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

DATE 3/11/51 SIGNATURE: [Signature] TITLE: Asst.

BRIDGE DEPARTMENT

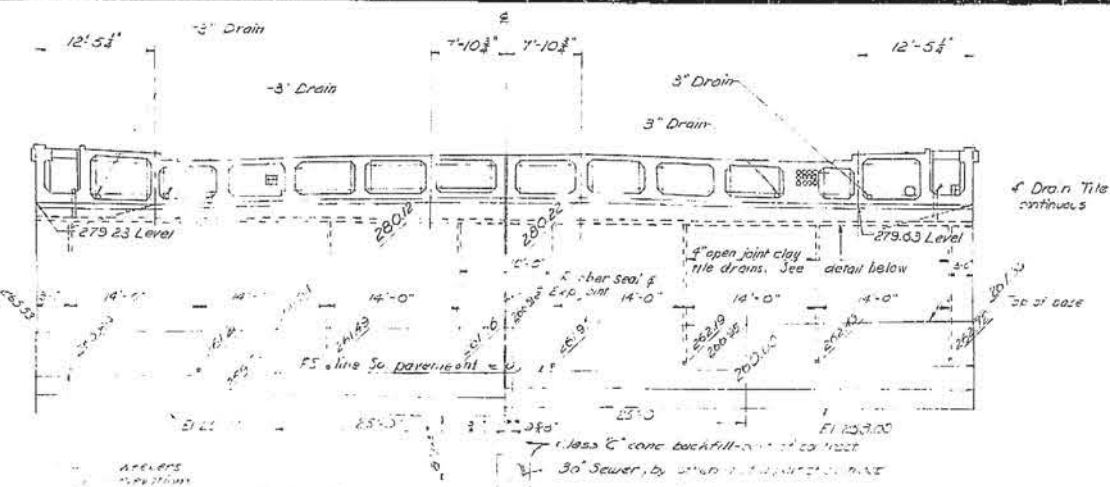
DESIGN BY: [Signature]  
 CHECKED BY: [Signature]  
 QUANTITIES BY: [Signature]  
 SPECIFICATIONS BY: [Signature]

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| 2                   | CAL.  |           |             |           |              |

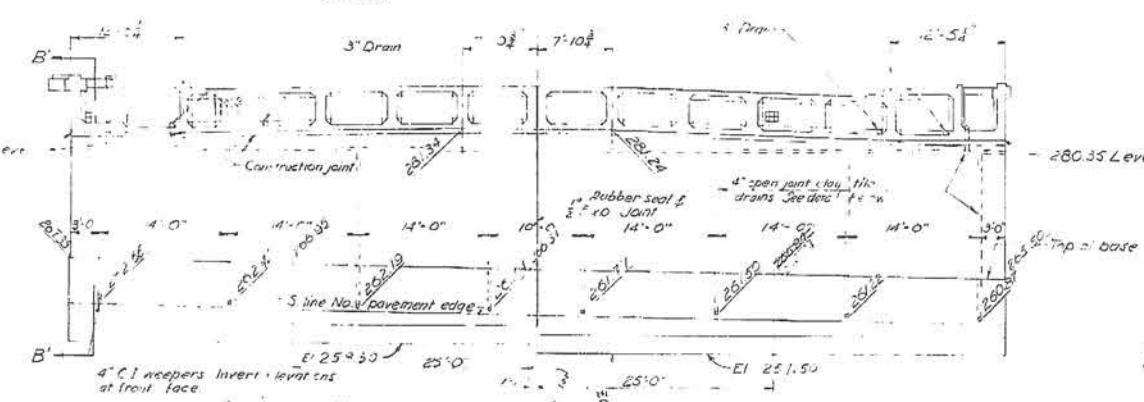
| DIST. | COUNTY | ROUTE | SECTION | POST MILE | POST MILES |
|-------|--------|-------|---------|-----------|------------|
| VII   | L.A.   | 101   |         | 17.48     | 30         |

DATE APPROVED: February 28, 1943  
 ENGINEER: [Signature]  
 CHECKED BY: [Signature]

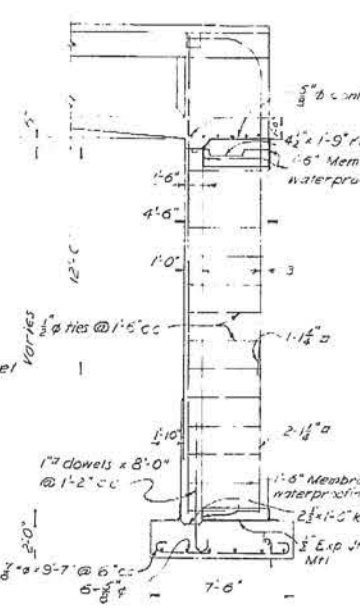
Submittal No. 13  
 Date: 11/11/42  
 Jan. 17, 43  
 [Signature]



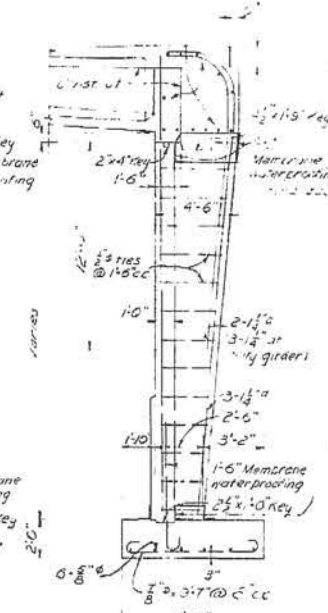
ELEVATION OF SOUTH ABUTMENT (LOOKING SOUTH)  
Scale 1/8" = 1'-0"



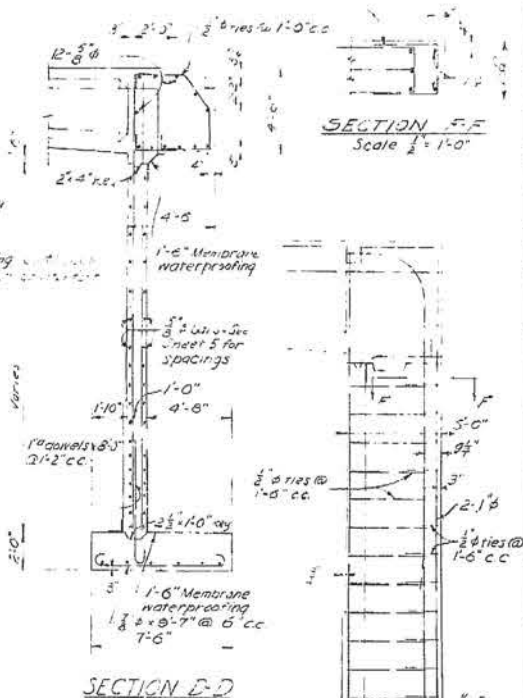
ELEVATION OF NORTH ABUTMENT (LOOKING NORTH)  
Scale 1/8" = 1'-0"



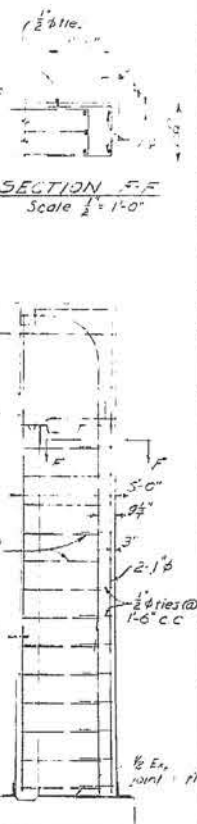
SECTION B-B  
Scale 1/2" = 1'-0"



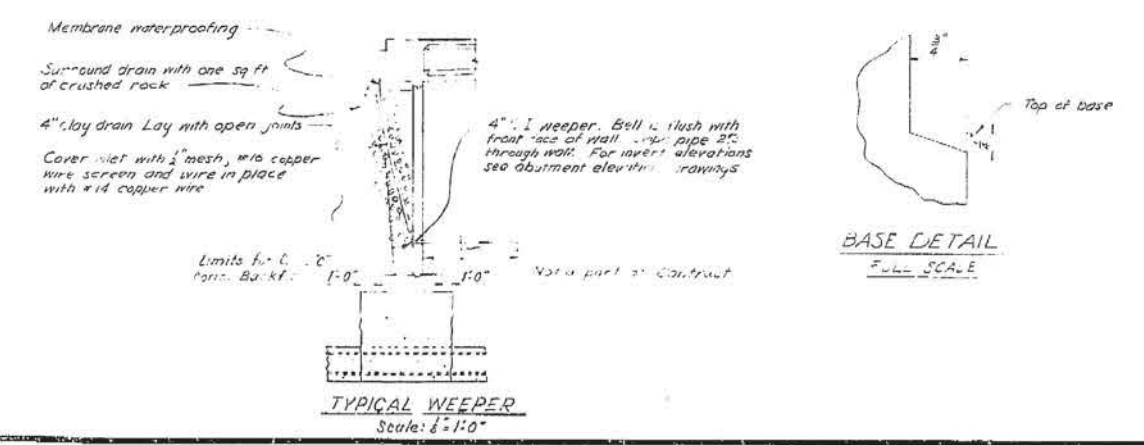
SECTION C-C  
Scale 1/2" = 1'-0"



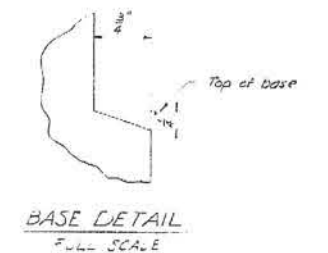
SECTION D-D  
Scale 1/2" = 1'-0"



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



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



BASE DETAIL  
FULL SCALE

THIS SET OF PLANS HAS BEEN CHECKED TO  
 CORRECT FOR ALL "AS BUILT" PRINTING DATED  
 1/15/43 AS SUGGESTED BY RESIDENT  
 ENGINEER  
 TRACKING CORRECTED BY: [Signature] DATE: 2/2/43

Note: For location of Section  
 B-B, C-C and D-D see  
 sheet "5"

**AS BUILT PLANS**  
 Contract No. 141C84  
 Date Completed \_\_\_\_\_  
 Document No. 70001957

STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS  
**LOS ANGELES ST. OVERCROSSINGS**  
 ABUTMENTS #1 & #3  
 BRIDGE #53-529  
 RAMP #3-769  
 SCALE AS SHOWN FILE DRAWING C-1736-4

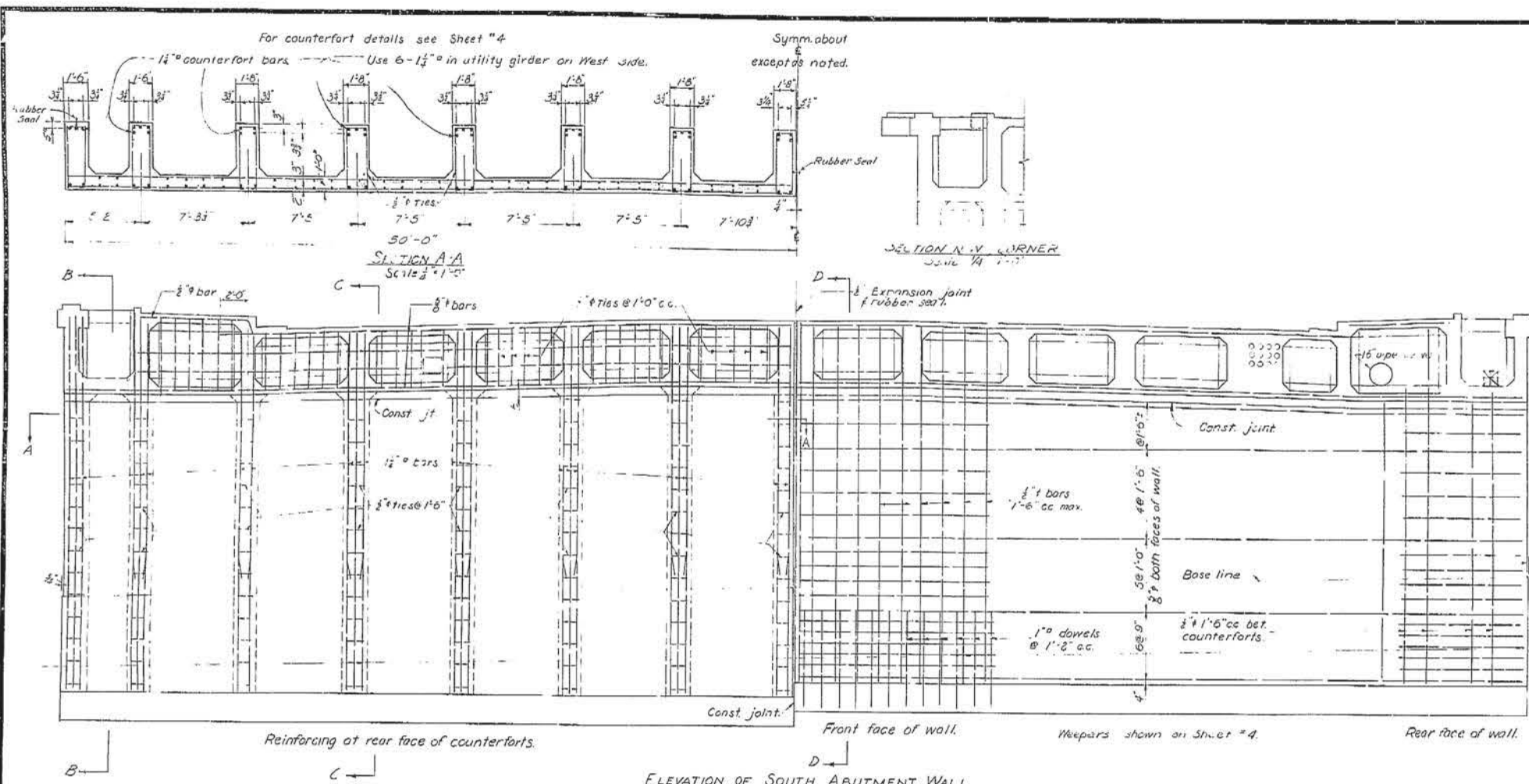
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN  
 UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO  
 AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 3/1/43 SIGNATURE: [Signature] TITLE: [Signature]

| FED. DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|----------------|-------|-----------|-------------|-----------|--------------|
| 2              | CAL.  |           |             |           |              |

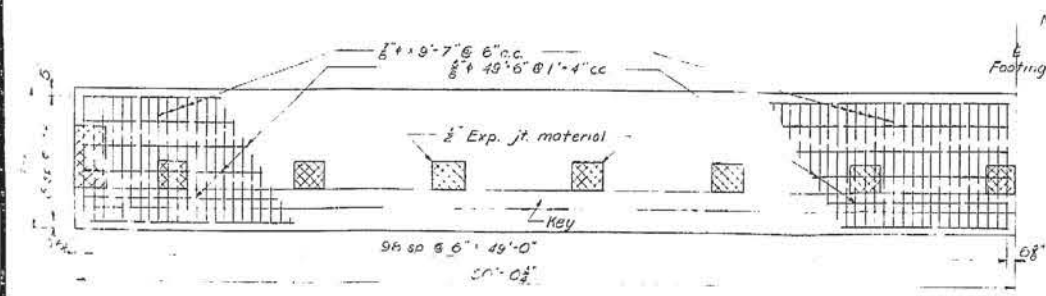
| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|-------|--------|-------|---------|-----------|--------------|
| 11    | LA     | 101   | LA 3    | 33        |              |

1942  
 ENGINEER, BRIDGE & STRUCTURAL DESIGN  
 APPROVED: *[Signature]*  
 CITY ENGINEER, CITY OF LOS ANGELES

DATE APPROVED: February 28, 1942



**ELEVATION OF SOUTH ABUTMENT WALL**  
 Scale: 1/4" = 1'-0"  
 North Abutment Wall Similar except for NW corner.



**HALF FOOTING PLAN**  
 Scale: 1/4" = 1'-0"

Note:  
 All fillets are 3/4" unless otherwise noted.

**UTILITY NOTE:**  
 Location and size of utility pipes and manhole locations may be modified as directed by the Engineer.

THIS PLAN IS THE PROPERTY OF THE CITY OF LOS ANGELES AND IS LOANED TO YOU FOR YOUR INFORMATION. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE CITY ENGINEER.

**NOTE:**  
 For Sections 1 & 3 SEE D.C.

**AS BUILT PLANS**  
 Contract No. 144C84  
 Date Completed \_\_\_\_\_  
 Document No. 70001957

STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAY

**LOS ANGELES STREET OVERCROSSINGS**

**ABUTMENTS 1 & 3 - DETAILS.**

SCALE: AS SHOWN  
 BRIDGE 58-620  
 ROAD 53-769 FILE  
 DRAWING C-1738-5

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL, ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.  
 DATE 3/1/42 SIGNATURE *[Signature]* TITLE *[Title]*

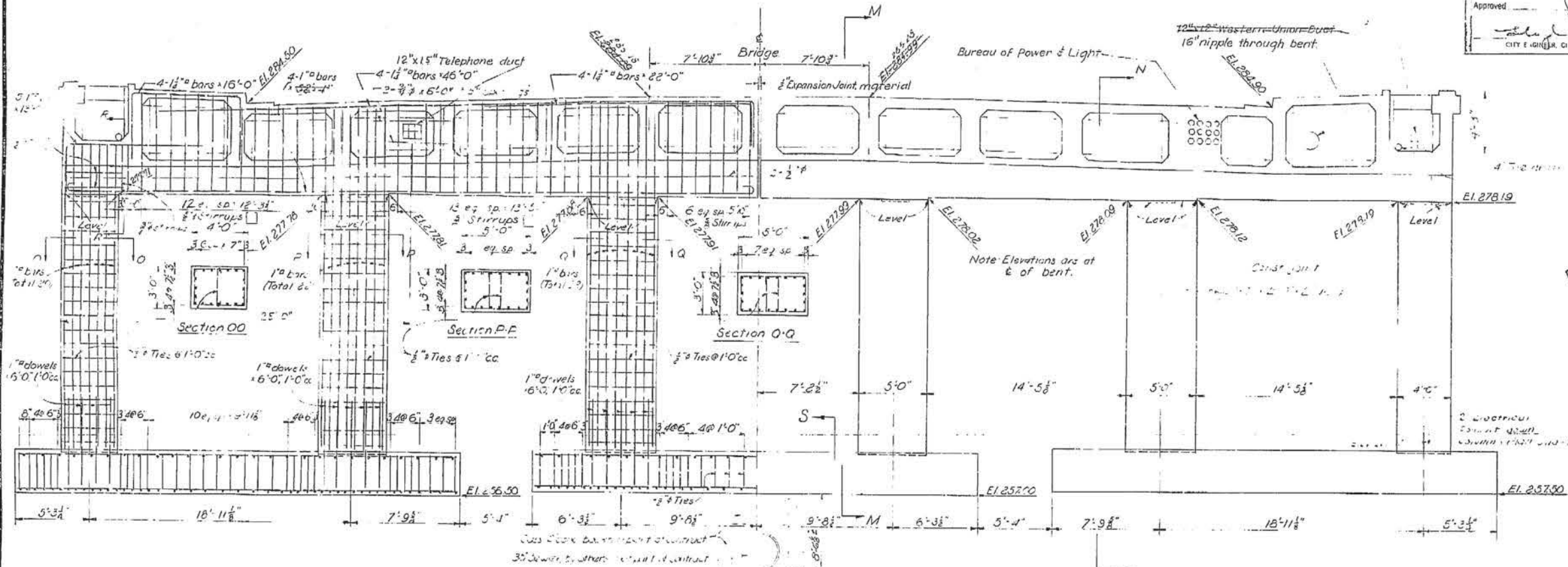
BRIDGE DEPARTMENT

DESIGN BY: *[Name]*  
 CHECKED BY: *[Name]*  
 APPROVED BY: *[Name]*

Submitted Oct 19 1948  
 Approved Jan 17 1949  
 ENGINEER, BRIDGE & STRUCTURAL DESIGN  
 CITY ENGINEER, CITY OF LOS ANGELES

| DIST. | COUNTY | ROUTE | SECTION | SHEET NO. | TOTAL SHEETS |
|-------|--------|-------|---------|-----------|--------------|
| VI    | L.A.   | 2     | L.A.    | 5         | 30           |

101  
 DATE APPROVED February 23, 1949



**AS BUILT PLANS**  
 Contract No. 141C.84  
 Date Completed  
 Document No. 7000.1957

THIS SET OF PLANS HAS BEEN COLLECTED TO OBTAIN THE "AS BUILT" PRINTS, DATED \_\_\_\_\_, SUBMITTED BY RESIDENT ENGINEER \_\_\_\_\_ DATE: \_\_\_\_\_  
 TRACING CHECKED BY: \_\_\_\_\_

STATE OF CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF HIGHWAYS

**LOS ANGELES STREET OVERCROSSINGS**

**BENT NO. 2**

SCALE: AS SHOWN  
 B-103E: 53-529  
 RAMP: 53-760  
 FILE  
 DRAWING: 1738-6

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

DATE: 5/1/51 SIGNATURE: [Signature] TITLE: [Title]

L.R.  
 H.P.P.  
 A.J.  
 A.E.M.  
 L.M.M.  
 H.C.S.

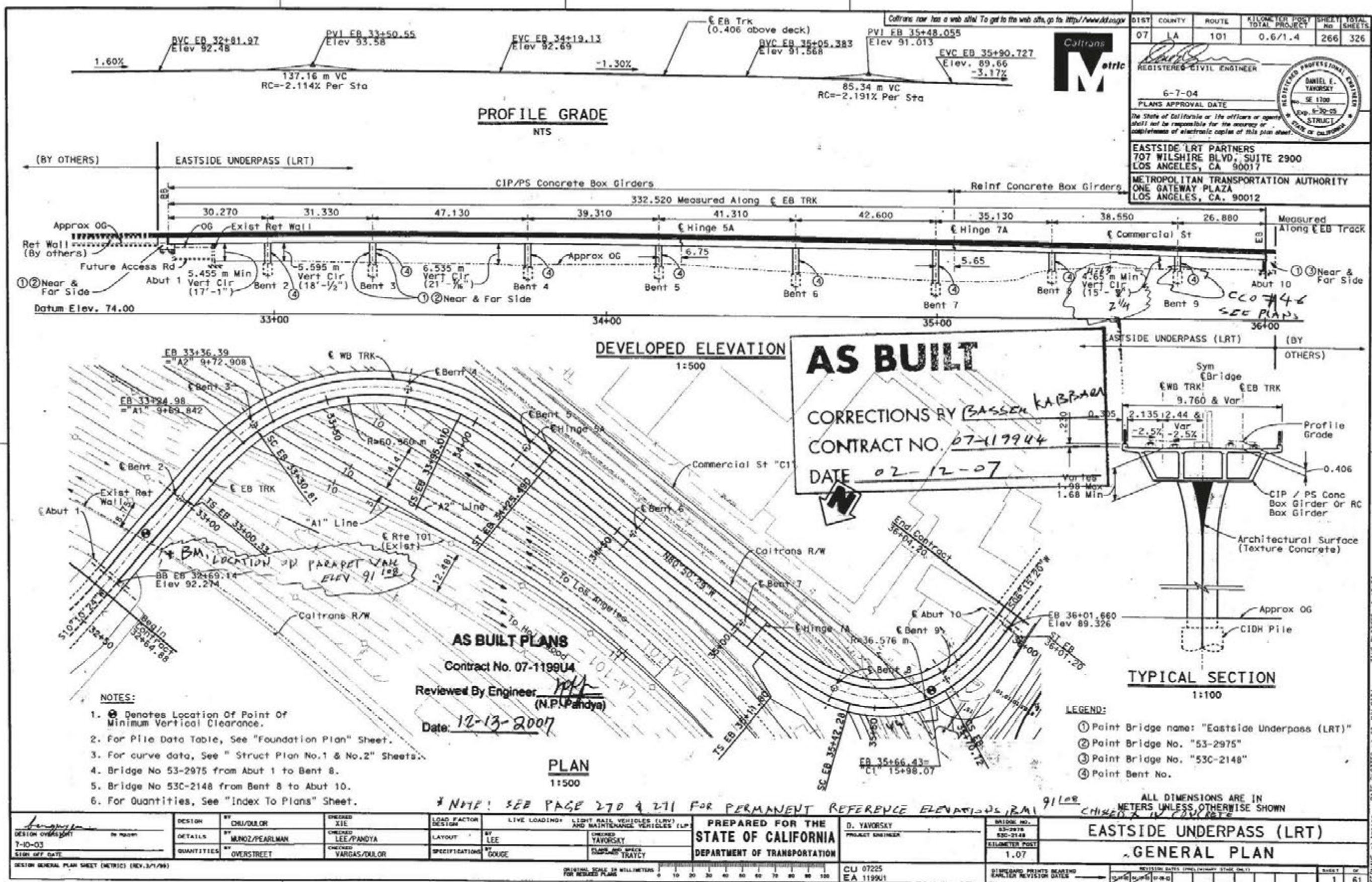
BRIDGE DEPARTMENT

DESIGNED BY: [Name]  
 CHECKED BY: [Name]  
 APPROVED BY: [Name]  
 DATE: [Date]



**As-Built Plans**  
**Eastside LRT Project Bridge over HWY 101,**  
**Bridge No. 53-2975**

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|      |        |       |                              |          |              |
|------|--------|-------|------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07   | LA     | 101   | 0.6/1.4                      | 266      | 326          |

REGISTERED CIVIL ENGINEER  
 6-7-04  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.  
 EASTSIDE LRT PARTNERS  
 707 WILSHIRE BLVD, SUITE 2900  
 LOS ANGELES, CA 90017  
 METROPOLITAN TRANSPORTATION AUTHORITY  
 ONE GATEWAY PLAZA  
 LOS ANGELES, CA. 90012

**AS BUILT**  
 CORRECTIONS BY BASSEN KABIRAN  
 CONTRACT NO. 07-119944  
 DATE 02-12-07

- NOTES:
- ① Denotes Location Of Point Of Minimum Vertical Clearance.
  - For Pile Data Table, See "Foundation Plan" Sheet.
  - For curve data, See "Struct Plan No.1 & No.2" Sheets.
  - Bridge No 53-2975 from Abut 1 to Bent 8.
  - Bridge No 53C-2148 from Bent 8 to Abut 10.
  - For Quantities, See "Index To Plans" Sheet.

**AS BUILT PLANS**  
 Contract No. 07-119944  
 Reviewed By Engineer: N.P. Pandya  
 (N.P. Pandya)  
 Date: 12-13-2007

- LEGEND:
- ① Point Bridge name: "Eastside Underpass (LRT)"
  - ② Point Bridge No. "53-2975"
  - ③ Point Bridge No. "53C-2148"
  - ④ Point Bent No.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

|  |                           |              |                |   |                              |                  |  |
|--|---------------------------|--------------|----------------|---|------------------------------|------------------|--|
| DESIGN   | BY                        | CHECKED      | LOAD FACTOR    | LIVE LOADINGS   | PREPARED FOR THE             | PROJECT ENGINEER | BRIDGE NO.                                   |
| DESIGN OVERSIGHT                                 | BY CHU/DULOR              | XIE          | DESIGN         | LIGHT RAIL VEHICLES (LRV) AND MAINTENANCE VEHICLES (LP) | STATE OF CALIFORNIA          | D. YAVORSKY      | 53-2975                                      |
| 7-10-03  | DETAILS BY MUNOZ/PEARLMAN | LEE/PANDYA   | LAYOUT         |   | DEPARTMENT OF TRANSPORTATION | PROJECT ENGINEER | 53C-2148                                     |
| SIGN OFF DATE                                    | QUANTITIES BY OVERSTREET  | VARGAS/DULOR | SPECIFICATIONS | BY GOUGE  |                              |                  | KILOMETER POST                               |
| DESIGN GENERAL PLAN SHEET (METRIC) (REV. 3/1/99) |                           |              |                |   |                              |                  | 1.07   |
|  |                           |              |                |   |                              |                  | BRIDGE PRINTS BEARING EARLIER REVISION DATES |
|  |                           |              |                |   |                              |                  | REVISION DATES (DATE, REVISION, DRAWN BY)    |
|  |                           |              |                |   |                              |                  | SHEET 1 OF 61                                |

submitted 8/5/08

INDEX TO BRIDGE PLANS

| SHEET NO. | TITLE                                     |
|-----------|---|
| 1         | GENERAL PLAN                              |
| 2         | INDEX TO PLANS                            |
| 3         | STRUCTURE PLAN No. 1                      |
| 4         | STRUCTURE PLAN No. 2                      |
| 5         | DECK CONTOURS No. 1                       |
| 6         | DECK CONTOURS No. 2                       |
| 7         | FOUNDATION PLAN                           |
| 8         | ABUTMENT 1 DETAILS No. 1                  |
| 9         | ABUTMENT 1 DETAILS No. 2                  |
| 10        | ABUTMENT 1 DETAILS No. 3                  |
| 11        | ABUTMENT 10 DETAILS No. 1                 |
| 12        | ABUTMENT 10 DETAILS No. 2                 |
| 13        | ABUTMENT 10 DETAILS No. 3                 |
| 14        | BENT 2 DETAILS                            |
| 15        | BENT 3 DETAILS                            |
| 16        | BENT 4 & 5 DETAILS                        |
| 17        | BENT 6 DETAILS                            |
| 18        | BENT 7, 8, & 9 DETAILS                    |
| 19        | COLUMN DETAILS No. 1                      |
| 20        | COLUMN DETAILS No. 2                      |
| 21        | 3.0 M CIDH PILE DETAILS                   |
| 22        | 2.4 M CIDH PILE DETAILS                   |
| 23        | TYPICAL SECTION No. 1                     |
| 24        | TYPICAL SECTION No. 2                     |
| 25        | TYPICAL SECTION No. 3                     |
| 26        | GIRDER LAYOUT No. 1                       |
| 27        | GIRDER LAYOUT No. 2                       |
| 28        | GIRDER LAYOUT No. 3                       |
| 29        | GIRDER REINFORCEMENT No. 1                |
| 30        | GIRDER REINFORCEMENT No. 2                |
| 31        | GIRDER REINFORCEMENT No. 3                |
| 32        | GIRDER REINFORCEMENT No. 4                |
| 33        | GIRDER DIAPHRAGM DETAILS                  |
| 34        | GIRDER CAMBER DIAGRAM                     |
| 35        | PTFE BEARING DETAILS FOR HINGE 5A         |
| 36        | HINGE No. 5A DETAILS                      |
| 37        | HINGE No. 7A DETAILS                      |
| 38        | MISC DETAILS-HINGES NOS. 5A & 7A          |
| 39        | CABLE RESTRAINER UNIT - TYPE 2            |
| 40        | CABLE RESTRAINER UNIT - TYPE 2 DETAILS    |
| 41        | JOINT SEAL ASSEMBLY (MR = 100 mm)         |
| 42        | JOINT SEAL DETAILS HINGE 5A (MR > 100 mm) |
| 43        | METAL SAFETY RAILING DETAILS              |
| 44        | DRAINAGE DETAILS                          |
| 45        | OCS AND LIGHT POLE ANCHORS PLAN - 1       |
| 46        | OCS AND LIGHT POLE ANCHORS PLAN - 2       |
| 47        | OCS AND LIGHT POLE FOUNDATION DETAILS     |
| 48        | WALKWAY AND OCS ANCHOR DETAILS            |
| 49        | OCS POLE FOUNDATION DETAILS               |
| 50        | OCS AND LIGHT POLE FOUNDATION SCHEDULE    |
| 51        | TRACK DETAILS                             |
| 52        | STRAY CURRENT CONTROL No. 1               |
| 53        | STRAY CURRENT CONTROL No. 2               |
| 54        | STRAY CURRENT CONTROL No. 3               |
| 55        | ALIGNMENT PLAN AND DATA                   |
| 56        | SURVEY CONTROL MONUMENTATION-METRIC       |
| 57        | LOG OF BORINGS SHEET 1 OF 5               |
| 58        | LOG OF BORINGS SHEET 2 OF 5               |
| 59        | LOG OF BORINGS SHEET 3 OF 5               |
| 60        | LOG OF BORINGS SHEET 4 OF 5               |
| 61        | LOG OF BORINGS SHEET 5 OF 5               |

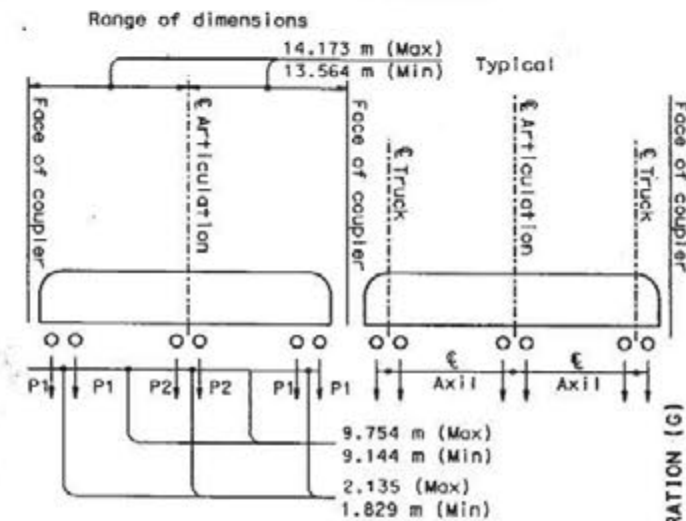
GENERAL NOTES  
LOAD FACTOR DESIGN

DESIGN:  
CALTRANS BRIDGE DESIGN SPECIFICATIONS (LFD VERSION APRIL 2000)  
(1996 AASHTO WITH INTERIM REVISIONS BY CALTRANS) AND LACMTA  
DESIGN CRITERIA

ADDITIONAL DEAD LOADS (AD):  
RAIL & PLINTHS, DUCTBANK/WALKWAY, OCS POLES

LIVE LOADING (LL):  
LIGHT RAIL VEHICLES (LRV) & MAINTENANCE  
VEHICLE (LP) (SEE LOADING DIAGRAMS)

LIGHT RAIL VEHICLE (LRV)



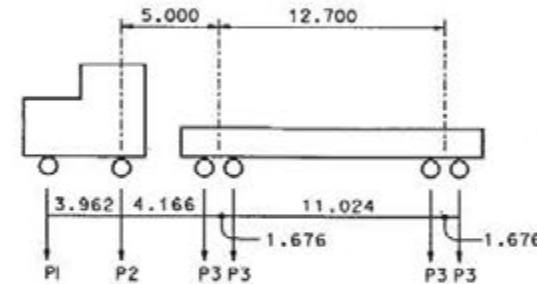
ESTIMATED LOADING DISTRIBUTION (kN)

|              | DISTR. TO CENTER TRUCK | P1     | P2    | TOTAL  |
|--------------|------------------------|--------|-------|--------|
| UNLOADED     | 24%                    | 82.83  | 52.31 | 435.93 |
| FULLY LOADED | 31%                    | 75.20  | 67.57 | 435.93 |
| FULLY LOADED | 24%                    | 108.98 | 82.29 | 600.51 |
| FULLY LOADED | 31%                    | 101.42 | 96.97 | 600.51 |

MAX SPEED OF LIGHT RAIL VEHICLE = 25 km/h

LIGHT RAIL VEHICLE FOR SEISMIC:  
THE MASS OF ONE 3-CAR TRAIN IS INCLUDED WITH THE DEADLOAD MASS OF THE STRUCTURE. NO OTHER ASPECT OF LIVE LOAD IS INCLUDED IN GROUP VII LOADING

LIGHT RAIL MAINTENANCE VEHICLE (LP)

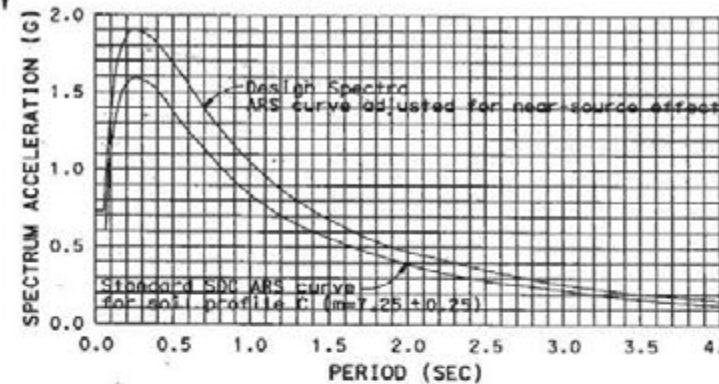


LOADING (kN)

|    | LOADED |
|----|--------|
| P1 | 133.45 |
| P2 | 200.17 |
| P3 | 82.29  |

LIGHT RAIL VEHICLE (LRV) IMPACT:  
VERTICLE = 30% OF LL, HORIZ = 10% OF LL  
(NO IMPACT FOR LP LOADING)

SEISMIC LOADING (EQ):  
MODIFIED SDC ARS CURVE FOR SOIL PROFILE C (M = 7.25 ± 0.25)  
(PEAK ROCK ACCELERATION = 0.6g WITH 20% INCREASE IN SPECTRA ACCELERATION MODIFIED AS SHOWN BELOW)



REINFORCED CONCRETE:  
SUPERSTRUCTURE SUBSTRUCTURE  
F<sub>y</sub> = 420 MPa F<sub>y</sub> = 420 MPa  
F'c = 35 MPa F'c = 25 & 28 MPa

TRANSVERSE DECK SLABS  
(WORKING STRESS DESIGN)  
F<sub>y</sub> = 138 MPa  
F'c = 8.3 MPa  
N = 10

PRESTRESSED CONCRETE:  
SEE "PRESTRESSING NOTES" IN "GIRDER LAYOUT NO. 1" SHEET



| DIST | COUNTY | ROUTE | KILOMETER PROJECT TOTAL | SHEET No | TOTAL SHEETS |
|------|--------|-------|-------------------------|----------|--------------|
| 07   | LA     | 101   | 0.6/1.4                 | 267      | 326          |

REGISTERED CIVIL ENGINEER  
6-7-04  
PLANS APPROVAL DATE  
DANIEL E. YAVORSKY  
SE 1700  
Exp. 6-30-05  
STRUCTURAL  
STATE OF CALIFORNIA  
EASTSIDE LRT PARTNERS  
707 WILSHIRE BLVD., SUITE 2900  
LOS ANGELES, CA 90017  
METROPOLITAN TRANSPORTATION AUTHORITY  
ONE GATEWAY PLAZA  
LOS ANGELES, CA. 90012

ADDITIONAL ABBREVIATIONS

- CS CIRCULAR CURVE TO SPIRAL
- EB EASTBOUND
- NIC NOT IN THIS CONTRACT (BY OTHERS)
- OCS OVERHEAD CONTACT SYSTEM
- SC SPIRAL TO CIRCULAR CURVE
- ST SPIRAL TO TANGENT OR SHORT TANGENT
- T/R TOP OF RAIL
- TRK TRACK
- TS TANGENT TO SPIRAL
- WB WESTBOUND

AS BUILT PLANS

Contract No. 07-1199U4

Reviewed By Engineer: *[Signature]*  
(N.P. Pandya)

Date: 12-13-2007

QUANTITIES

|   | LUMP | SUM                |
|---|------|--------------------|
| CONTAMINATED MATERIAL HANDLING  |      |                    |
| STRUCTURE EXCAVATION (BRIDGE)   | 243  | m <sup>3</sup>     |
| STRUCTURE EXCAVATION (TYPE Y) (AERIALY DEPOSITED LEAD)                  | 44   | m <sup>3</sup>     |
| STRUCTURE BACKFILL (BRIDGE)   | 370  | m <sup>3</sup>     |
| 1.2 m CAST-IN-DRILLED-HOLE CONCRETE PILING                              | 142  | m                  |
| 2.4 m CAST-IN-DRILLED-HOLE CONCRETE PILING                              | 109  | m                  |
| 3.0 m CAST-IN-DRILLED-HOLE CONCRETE PILING                              | 67   | m                  |
| 900 mm CAST-IN-DRILLED-HOLE CONCRETE PILING                             | 83   | m                  |
| PRESTRESSING CAST-IN-PLACE CONCRETE STRUCTURAL CONCRETE, BRIDGE FOOTING | LUMP | SUM                |
| STRUCTURAL CONCRETE, BRIDGE   | 191  | m <sup>3</sup>     |
| FLUTED RIB TEXTURE  | 2    | 360 m <sup>2</sup> |
| JOINT SEAL (MR=30 mm)   | 36   | m <sup>2</sup>     |
| JOINT SEAL ASSEMBLY (MR 70 mm)  | 10   | m                  |
| JOINT SEAL ASSEMBLY (MR 90 mm)  | 10   | m                  |
| JOINT SEAL ASSEMBLY (MR 101 mm - 160 mm)                                | 10   | m                  |
| BAR REINFORCING STEEL (BRIDGE)  | 982  | 000 kg             |
| BAR REINFORCING STEEL (EPOXY COATED) (BRIDGE)                           | 6    | 200 kg             |
| MISCELLANEOUS METAL (RESTRAINER - CABLE TYPE)                           | 1    | 334 kg             |
| MISCELLANEOUS METAL (BRIDGE)  | 18   | 400 kg             |
| METAL RAILING   | 667  | m                  |
| PTFE BEARING  | 4    | EA                 |

**No As-Built Changes**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

|  |   |  |   |                                  |   |  |               |
|--|---|--|---|----------------------------------|---|--|---------------|
| DESIGN OVERSIGHT<br>7-10-03<br>SIGN OFF DATE | DESIGN: CHU<br>DETAILS: NGUYEN/PEARLMAN<br>QUANTITIES: OVERSTREET | CHECKED: XIE<br>CHECKED: LEE/PANDYA<br>CHECKED: VARGAS/DOLOR | PREPARED FOR THE<br>STATE OF CALIFORNIA<br>DEPARTMENT OF TRANSPORTATION | DAN YAVORSKY<br>PROJECT ENGINEER | BRIDGE NO.<br>53-2975<br>53C-2448<br>KILOMETER POST<br>1.07 | EASTSIDE UNDERPASS (LRT)<br>INDEX TO PLANS | SHEET 2 OF 61 |
|--|---|--|---|----------------------------------|---|--|---------------|

| MARK      | DATE     | DESCRIPTION            | BY | CH'D |
|-----------|----------|------------------------|----|------|
| 1         | 12/25/05 | Revised per RFI-198.02 | VN | NP   |
| REVISIONS |          |                        |    |      |



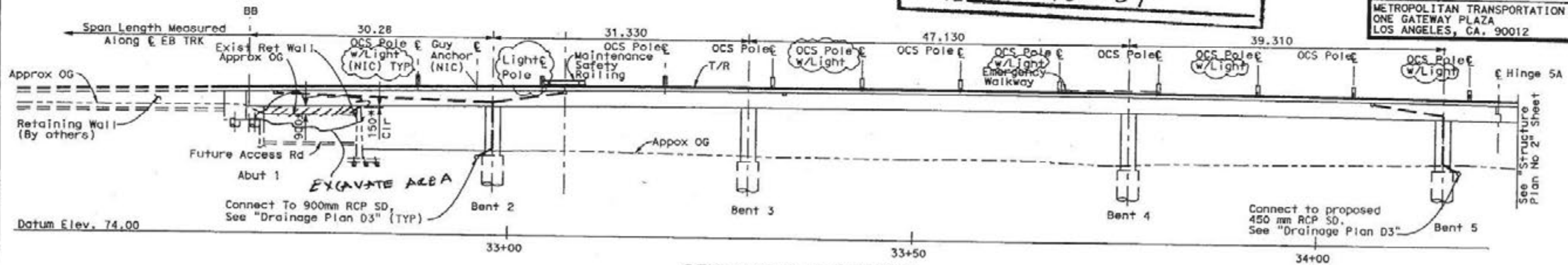
**AS BUILT PLANS**  
 Contract No. 07-1199U4  
 Reviewed By Engineer *[Signature]*  
 (N.P. Pandya)  
 Date: 12-13-2007

**AS BUILT** *CCO # 57*  
**CORRECTIONS BY BASSEM KABBARA**  
**CONTRACT NO. 07-119944**  
**DATE 02-12-07**

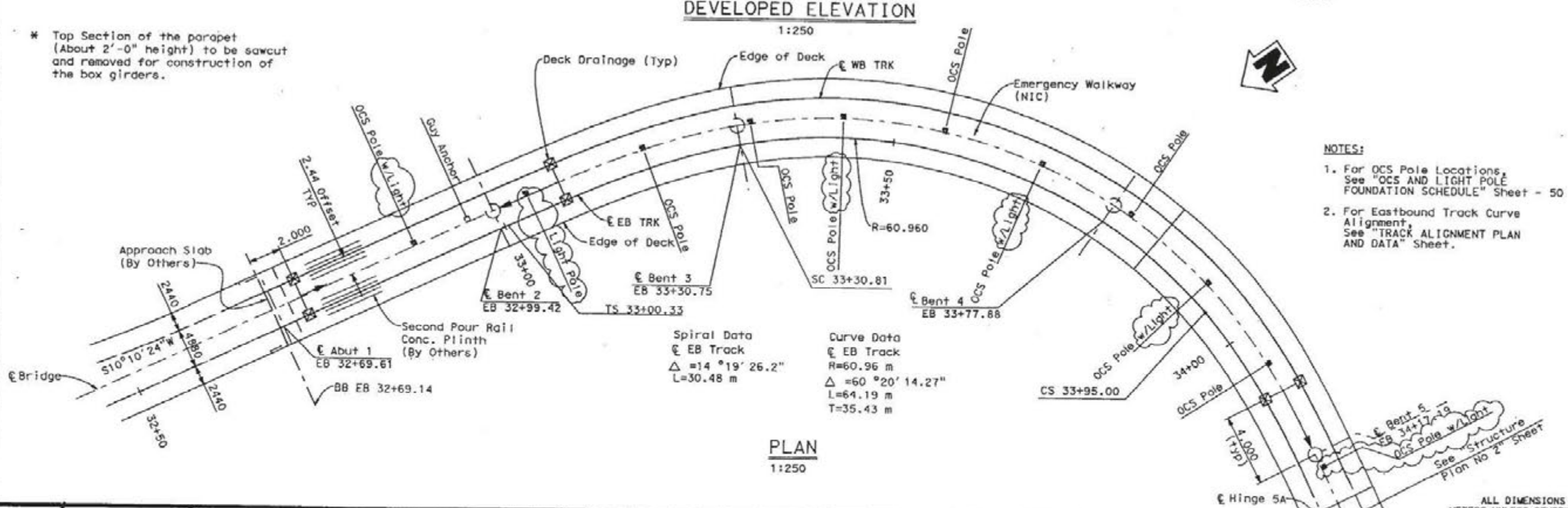


| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET NO | TOTAL SHEETS |
|------|--------|-------|------------------------------|----------|--------------|
| 7    | LA     | 101   | 0.6/1.4                      | 268R     | 326          |

REGISTERED CIVIL ENGINEER  
*[Signature]*  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.  
 EASTSIDE LRT PARTNERS  
 707 WILSHIRE BLVD, SUITE 2900  
 LOS ANGELES, CA 90017  
 METROPOLITAN TRANSPORTATION AUTHORITY  
 ONE GATEWAY PLAZA  
 LOS ANGELES, CA. 90012



\* Top Section of the parapet (About 2'-0" height) to be sawcut and removed for construction of the box girders.



- NOTES:**
- For OCS Pole Locations, See "OCS AND LIGHT POLE FOUNDATION SCHEDULE" Sheet - 50
  - For Eastbound Track Curve Alignment, See "TRACK ALIGNMENT PLAN AND DATA" Sheet.

DESIGN OVERSIGHT  
*[Signature]*  
 7-10-05  
 SIGN OFF DATE

|            |                   |                      |
|------------|-------------------|----------------------|
| DESIGN     | BY YANG/DULOR     | CHECKED XIE          |
| DETAILS    | BY MUNOZ/PEARLMAN | CHECKED LEE/PANDYA   |
| QUANTITIES | BY OVERSTREET     | CHECKED VARGAS/DULOR |

PREPARED FOR THE  
**STATE OF CALIFORNIA**  
 DEPARTMENT OF TRANSPORTATION

DAN YAVORSKY  
 PROJECT ENGINEER

BRIDGE NO.  
 82-0975  
 ESC-0448  
 KILOMETER POST  
 1.07

**EASTSIDE UNDERPASS (LRT)**  
**STRUCTURE PLAN No. 1**

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS  
 0 10 20 30 40 50 60 70 80 90 100  
 CU 07225  
 EA 1199U1  
 T:\FILE #3 000010003.dwg

DISCARD PRINTS BEARING EARLIER REVISION DATES  
 REVISION DATES (PANEL, DRAWING, SHEET, DATE)  
 SHEET 3 OF 61

| MARK      | DATE     | DESCRIPTION            | BY | CHK'D |
|-----------|----------|------------------------|----|-------|
| ▲         | 12/25/05 | Revised per RFI-198.02 | VN | NP    |
| REVISIONS |          |                        |    |       |



**AS BUILT**

CORRECTIONS BY BASSEM KABBARA  
 CONTRACT NO. 07-119944  
 DATE 02-12-2007

| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|------------------------------|----------|--------------|
| 7    | LA     | 101   | 0.6/1.4                      | 269R     | 326          |

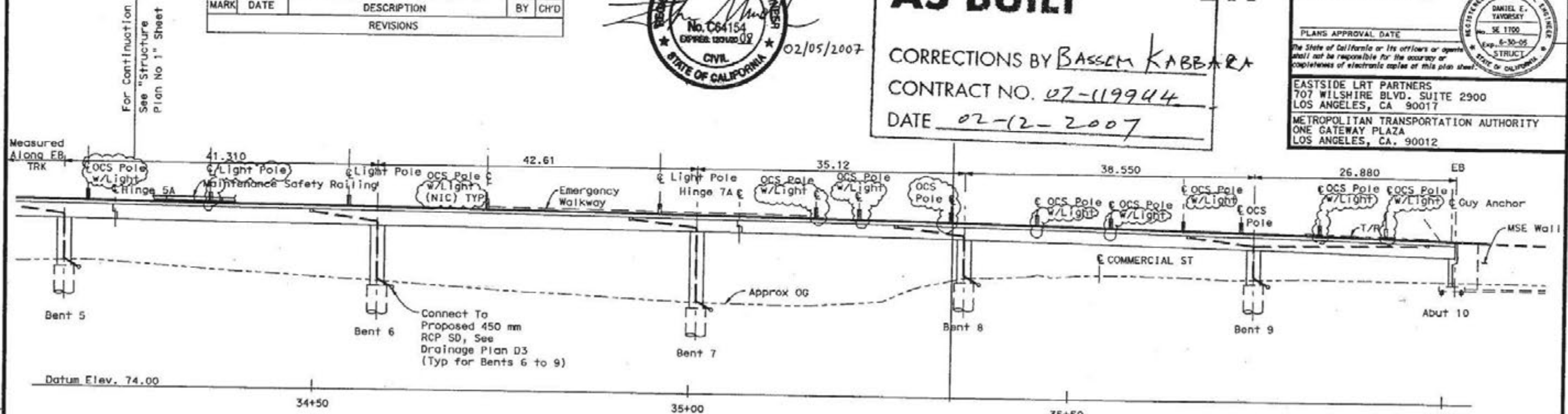
REGISTERED CIVIL ENGINEER  
 DANIEL E. YAVORSKY  
 No. SE 1100  
 Exp. 6-30-05  
 STATE OF CALIFORNIA

PLANS APPROVAL DATE

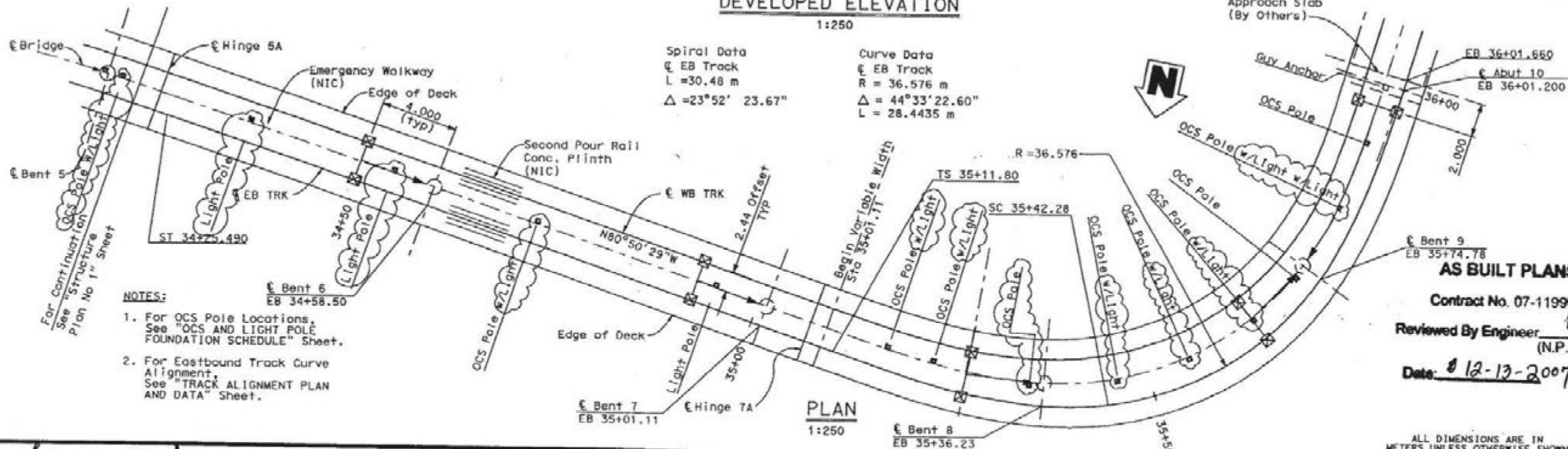
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

EASTSIDE LRT PARTNERS  
 707 WILSHIRE BLVD. SUITE 2900  
 LOS ANGELES, CA 90017

METROPOLITAN TRANSPORTATION AUTHORITY  
 ONE GATEWAY PLAZA  
 LOS ANGELES, CA. 90012



**DEVELOPED ELEVATION**  
 1:250



- NOTES:
- For OCS Pole Locations, See "OCS AND LIGHT POLE FOUNDATION SCHEDULE" Sheet.
  - For Eastbound Track Curve Alignment, See "TRACK ALIGNMENT PLAN AND DATA" Sheet.

DESIGN OVERSIGHT  
[Signature]  
 BE NGUYEN  
 7-10-03  
 SIGN OFF DATE

|            |                   |                      |
|------------|-------------------|----------------------|
| DESIGN     | BY YANG/DULOR     | CHECKED XIE          |
| DETAILS    | BY MINOZ/PEARLMAN | CHECKED LEE/PANDYA   |
| QUANTITIES | BY OVERSTREET     | CHECKED VARGAS/DULOR |

PREPARED FOR THE  
 STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DAN YAVORSKY  
 PROJECT ENGINEER

|               |         |
|---------------|---------|
| BRIDGE NO.    | 53-2878 |
| SSC-2948      |         |
| ALUMINUM POST | 1.07    |

EASTSIDE UNDERPASS (LRT)  
 STRUCTURE PLAN No. 2



CU 07225  
 EA 1199U1  
 FILE => oaspi0004.dgn

DISCARD PRINTS BEARING  
 EARLIER REVISION DATES

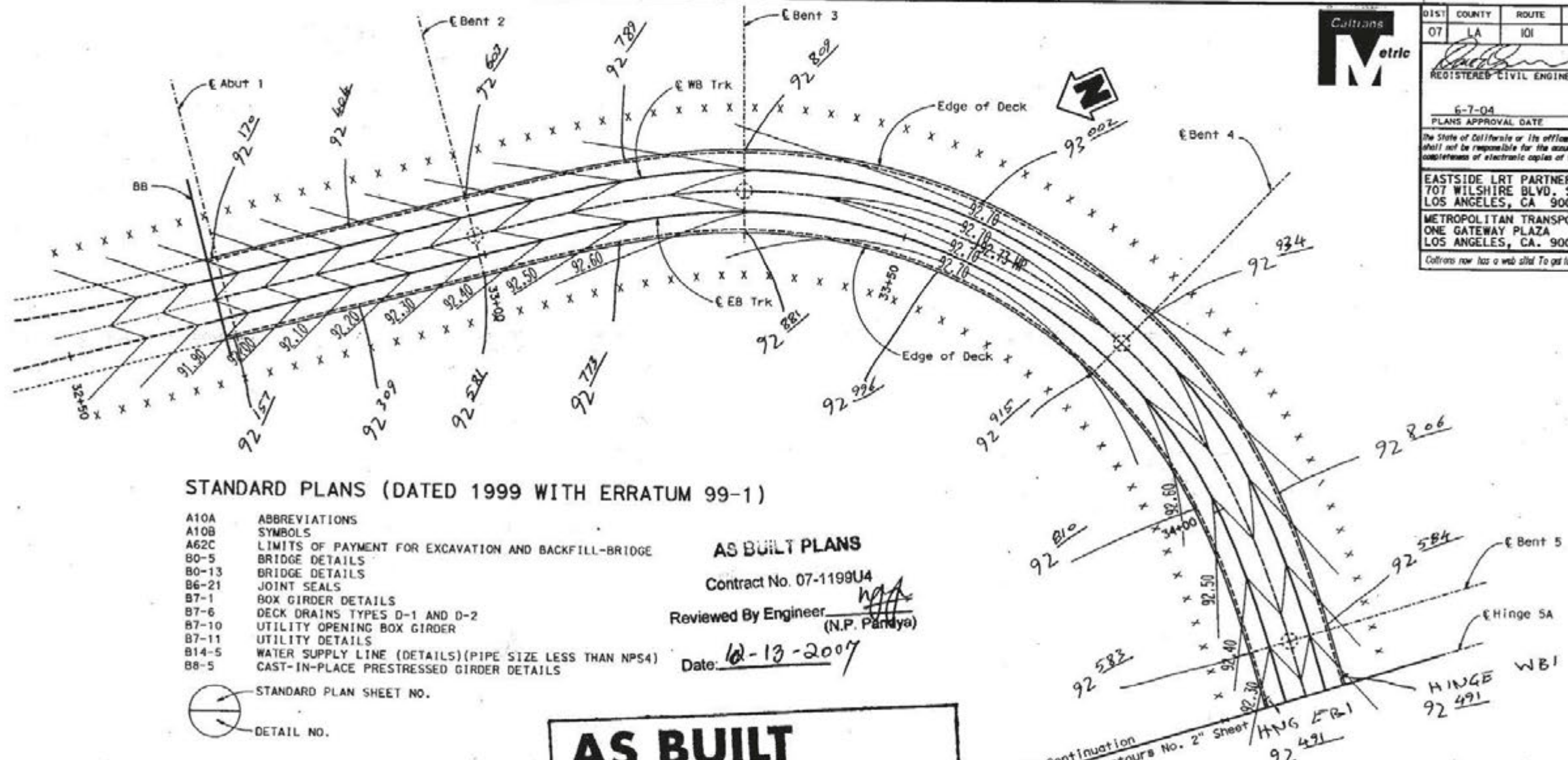
|   |       |    |
|---|-------|----|
| REVISION DATES (PRELIMINARY STAGE ONLY) | SHEET | OF |
|   | 4     | 61 |



| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|------------------------------|----------|--------------|
| 07   | LA     | 101   | 0.6/1.4                      | 270      | 326          |

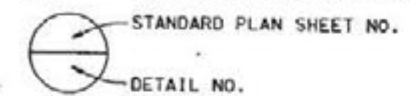
REGISTERED CIVIL ENGINEER  
 6-7-04  
 PLANS APPROVAL DATE  
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

EASTSIDE LRT PARTNERS  
 707 WILSHIRE BLVD., SUITE 2900  
 LOS ANGELES, CA 90017  
 METROPOLITAN TRANSPORTATION AUTHORITY  
 ONE GATEWAY PLAZA  
 LOS ANGELES, CA. 90012  
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**STANDARD PLANS (DATED 1999 WITH ERRATUM 99-1)**

- A10A ABBREVIATIONS
- A10B SYMBOLS
- A62C LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL-BRIDGE
- B0-5 BRIDGE DETAILS
- B0-13 BRIDGE DETAILS
- B6-21 JOINT SEALS
- B7-1 BOX GIRDER DETAILS
- B7-6 DECK DRAINS TYPES D-1 AND D-2
- B7-10 UTILITY OPENING BOX GIRDER
- B7-11 UTILITY DETAILS
- B14-5 WATER SUPPLY LINE (DETAILS)(PIPE SIZE LESS THAN NPS4)
- B8-5 CAST-IN-PLACE PRESTRESSED GIRDER DETAILS



**AS BUILT PLANS**

Contract No. 07-1199U4  
 Reviewed By Engineer   
 (N.P. Pandya)  
 Date: 02-13-2007

**AS BUILT**  
 CORRECTIONS BY BASSEM KABBARA  
 CONTRACT NO. 07-119944  
 DATE 02-12-2007

- Notes:**
- X- indicates 3.0 m interval measured along E EB track
  - Contours shown at 0.1 m elevation interval
  - Contour shown do not include camber.

**PLAN**  
1:250

LOCATION & ELEVATION OF COPPER NAILS ON CURBS

**No As-Built Change**

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

|  |   |  |                                  |  |   |                        |
|--|---|--|----------------------------------|--|---|------------------------|
| <br>DESIGNER<br>7-10-03<br>SIGN OFF DATE<br>DESIGN DETAIL SHEET (ACTING) REV. 3/1/99 | DESIGNER<br>CHU<br>CHECKED<br>XIE<br>DETAILS<br>NGUYEN/PEARLMAN<br>CHECKED<br>LEE/PANDYA<br>QUANTITIES<br>OVERSTREET<br>CHECKED<br>VARGAS/DOLOR | PREPARED FOR THE<br><b>STATE OF CALIFORNIA</b><br>DEPARTMENT OF TRANSPORTATION | PROJECT ENGINEER<br>DAN YAVORSKY | SPEC. NO.<br>23-2975<br>23C-2440<br>KILOMETER POST<br>1.07 | <b>EASTSIDE UNDERPASS (LRT)</b><br><b>DECK CONTOURS No. 1</b> | SHEET<br>5<br>OF<br>61 |
|--|---|--|----------------------------------|--|---|------------------------|



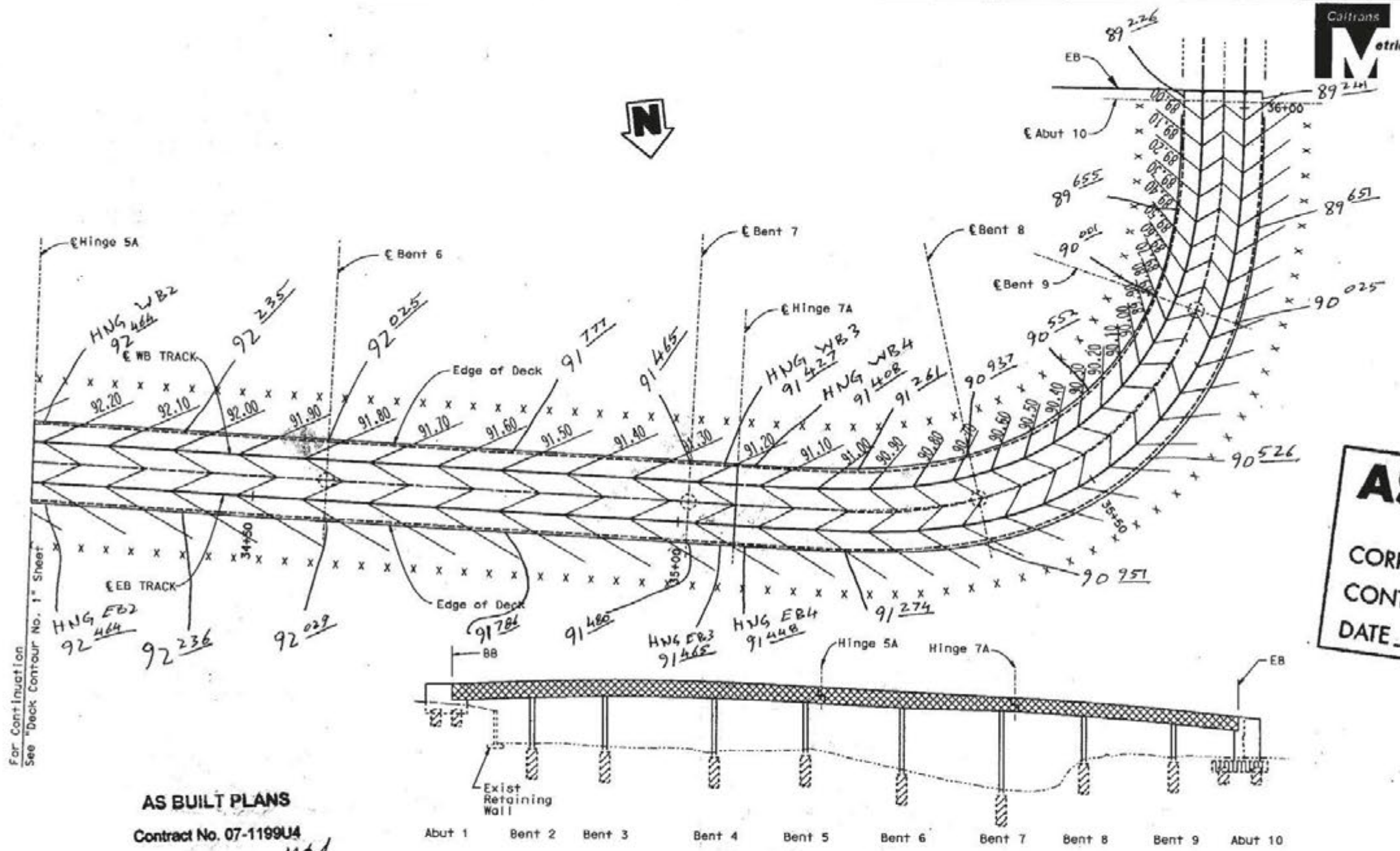
CU 07225  
 EA 1199U1  
 FILE -> odc0005.dgn

5



|      |        |       |                              |           |              |
|------|--------|-------|------------------------------|-----------|--------------|
| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
| 07   | LA     | 101   | 0.6/1.4                      | 271       | 326          |

REGISTERED CIVIL ENGINEER  
 6-7-04  
 PLANS APPROVAL DATE  
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 EASTSIDE LRT PARTNERS  
 707 WILSHIRE BLVD. SUITE 2900  
 LOS ANGELES, CA 90017  
 METROPOLITAN TRANSPORTATION AUTHORITY  
 ONE GATEWAY PLAZA  
 LOS ANGELES, CA. 90012  
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**AS BUILT**  
 CORRECTIONS BY BASSEM KARRARA  
 CONTRACT NO. 07-119944  
 DATE 07-12-2007

For Continuation See "Deck Contour No. 1" Sheet

**AS BUILT PLANS**

Contract No. 07-119944  
 Reviewed By Engineer [Signature]  
 (N.P. Pandya)  
 Date: 12-13-2007

**CONCRETE STRENGTH AND TYPE LIMITS**

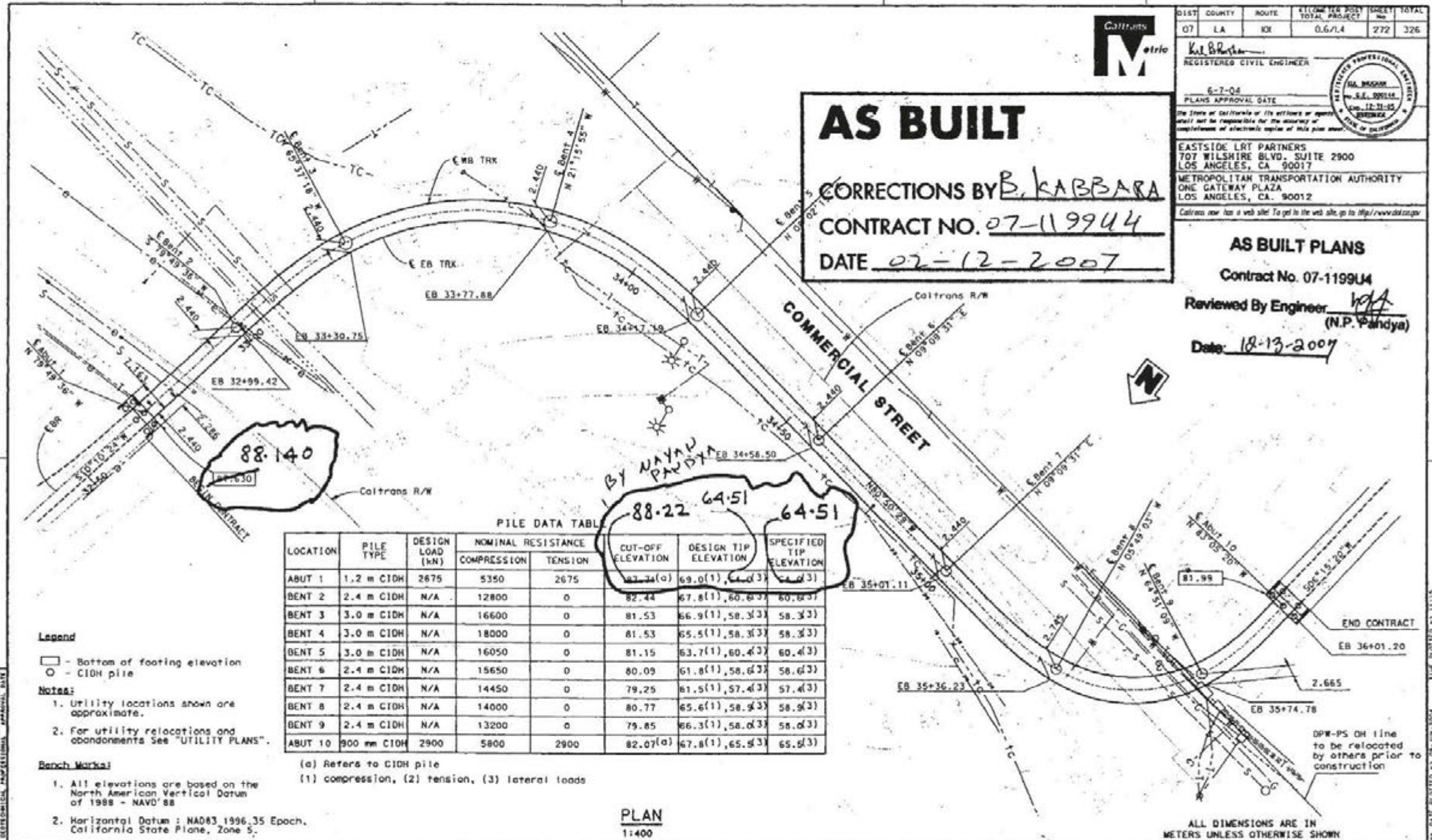
- No Scale
- STRUCTURE CONCRETE, BRIDGE (F'c = 28 MPa @ 28 DAYS)
  - STRUCTURE CONCRETE, BRIDGE (F'c = 35 MPa @ 28 DAYS)
  - CAST-IN-DRILL HOLE CONCRETE PILE, BRIDGE (F'c = 28 MPa @ 28 DAYS)
  - STRUCTURAL CONCRETE FOOTING, (F'c = 25 MPa @ 28 DAYS)

**No As-Built Changes**

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

|                             |                         |   |                                |                         |  |
|-----------------------------|-------------------------|---|--------------------------------|-------------------------|--|
| DESIGN BY: CHU              | CHECKED BY: XIE         | PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | PROJECT ENGINEER: DAN TAVORSKY | SCALE: 1:07             | EASTSIDE UNDERPASS (LRT) DECK CONTOURS No. 2 |
| DETAILS BY: NGUYEN/PEARLMAN | DESIGNED BY: LEE/PANDYA | QUANTITIES BY: OVERSTREET   | DESIGNED BY: VARGAS/DUCOR      | FILE: 07-119944-006.dgn |  |

6



**AS BUILT**  
 CORRECTIONS BY B. KABBARA  
 CONTRACT NO. 07-119944  
 DATE 02-12-2007

DIST COUNTY ROUTE KILOMETER POST TOTAL PROJECT SHEET TOTAL No. No. 07 LA 001 0.6/1.4 272 326

*Kul B. Kabbara*  
 REGISTERED CIVIL ENGINEER

6-7-06  
 PLANS APPROVAL DATE

EASTSIDE LRT PARTNERS  
 707 WILSHIRE BLVD. SUITE 2900  
 LOS ANGELES, CA 90017

METROPOLITAN TRANSPORTATION AUTHORITY  
 ONE GATEWAY PLAZA  
 LOS ANGELES, CA 90012

**AS BUILT PLANS**  
 Contract No. 07-119944  
 Reviewed By Engineer *[Signature]*  
 (N.P. Pandya)  
 Date: 12-13-2007

PILE DATA TABLE

| LOCATION | PILE TYPE   | DESIGN LOAD (kN) | NOMINAL RESISTANCE |         | CUT-OFF ELEVATION | DESIGN TIP ELEVATION | SPECIFIED TIP ELEVATION |
|----------|-------------|------------------|--------------------|---------|-------------------|----------------------|-------------------------|
|          |             |                  | COMPRESSION        | TENSION |                   |                      |                         |
| ABUT 1   | 1.2 m CIDH  | 2675             | 5350               | 2675    | 82.34(0)          | 69.0(1), 64.3(3)     | 64.3(3)                 |
| BENT 2   | 2.4 m CIDH  | N/A              | 12800              | 0       | 82.44             | 67.8(1), 60.6(3)     | 60.6(3)                 |
| BENT 3   | 3.0 m CIDH  | N/A              | 16600              | 0       | 81.53             | 66.9(1), 58.3(3)     | 58.3(3)                 |
| BENT 4   | 3.0 m CIDH  | N/A              | 18000              | 0       | 81.53             | 65.5(1), 58.3(3)     | 58.3(3)                 |
| BENT 5   | 3.0 m CIDH  | N/A              | 16050              | 0       | 81.15             | 63.7(1), 60.4(3)     | 60.4(3)                 |
| BENT 6   | 2.4 m CIDH  | N/A              | 15650              | 0       | 80.09             | 61.8(1), 58.6(3)     | 58.6(3)                 |
| BENT 7   | 2.4 m CIDH  | N/A              | 14450              | 0       | 79.25             | 61.5(1), 57.4(3)     | 57.4(3)                 |
| BENT 8   | 2.4 m CIDH  | N/A              | 14000              | 0       | 80.77             | 65.6(1), 58.9(3)     | 58.9(3)                 |
| BENT 9   | 2.4 m CIDH  | N/A              | 13200              | 0       | 79.85             | 66.3(1), 58.6(3)     | 58.6(3)                 |
| ABUT 10  | 900 mm CIDH | 2900             | 5800               | 2900    | 82.07(0)          | 67.8(1), 65.6(3)     | 65.6(3)                 |

**Legend**  
 □ - Bottom of footing elevation  
 ○ - CIDH pile

**Notes:**  
 1. Utility locations shown are approximate.  
 2. For utility relocations and abandonments See "UTILITY PLANS".

**Branch Marks:**  
 1. All elevations are based on the North American Vertical Datum of 1988 - NAVD'88  
 2. Horizontal Datum : NAD83 1996.35 Epoch, California State Plane, Zone 5.

(a) Refers to CIDH pile  
 (1) compression, (2) tension, (3) lateral loads

PLAN  
 1:400

|                             |                                     |                      |   |                    |                                |                        |   |                        |   |
|-----------------------------|-------------------------------------|----------------------|---|--------------------|--------------------------------|------------------------|---|------------------------|---|
| DESIGNER: [Signature]       | SCALE: PHOTOGRAMMETRY AS OF 7-10-07 | VERT. DATUM: NAVD'88 | HORIZ. DATUM: NAD83 1996.35 Epoch, California State Plane, Zone 5 | DESIGN: OVERSTREET | BY: OVERSTREET                 | DATE: 02-12-2007       | PROJECT ENGINEER: DAN VAVORSKY                          | PROJECT NO.: 07-119944 | PROJECT TITLE: EASTSIDE UNDERPASS (LRT) FOUNDATION PLAN |
| DESIGN CHECKED: [Signature] | DRAWN: [Signature]                  | CHECKED: [Signature] | APPROVED: [Signature]   | DATE: 02-12-2007   | PROJECT ENGINEER: DAN VAVORSKY | PROJECT NO.: 07-119944 | PROJECT TITLE: EASTSIDE UNDERPASS (LRT) FOUNDATION PLAN | SHEET NO.: 7           | TOTAL SHEETS: 61  |

7

| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No | TOTAL SHEETS |
|------|--------|-------|------------------------------|----------|--------------|
| 07   | LA     | 101   | 0.6/1.4                      | 273R     | 326          |

REGISTERED CIVIL ENGINEER

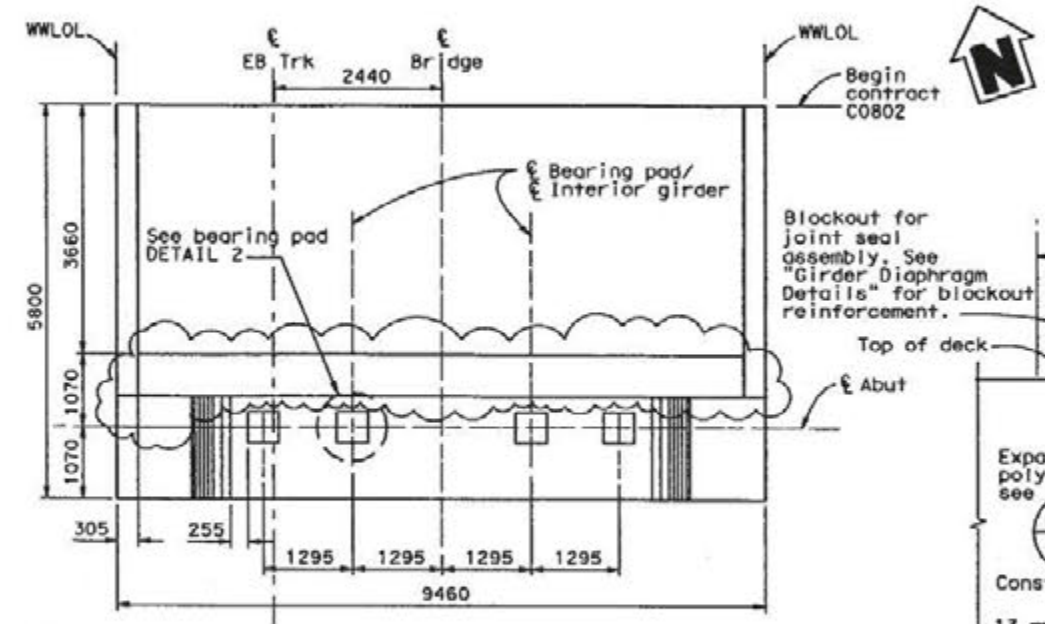
PLANS APPROVAL DATE

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EASTSIDE LRT PARTNERS  
707 WILSHIRE BLVD. SUITE 2900  
LOS ANGELES, CA 90017

METROPOLITAN TRANSPORTATION AUTHORITY  
ONE GATEWAY PLAZA  
LOS ANGELES, CA. 90012

| MARK      | DATE     | DESCRIPTION        | BY | CHK'D |
|-----------|----------|--------------------|----|-------|
| △         | 11/21/06 | Revised per CCO-51 | ZM | NP    |
| REVISIONS |          |                    |    |       |



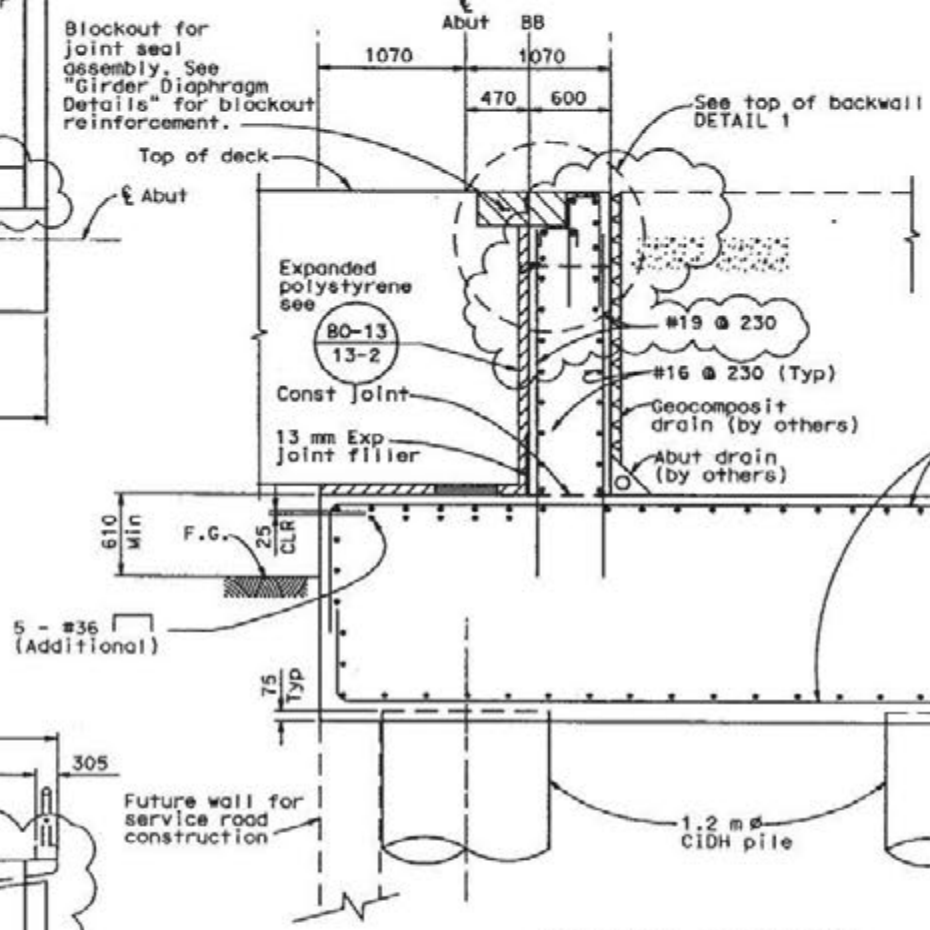
**AS BUILT PLANS**

Contract No. 07-1199U4

Reviewed By Engineer *N.P. Pandya*  
(N.P. Pandya)

Date: 12-13-2007

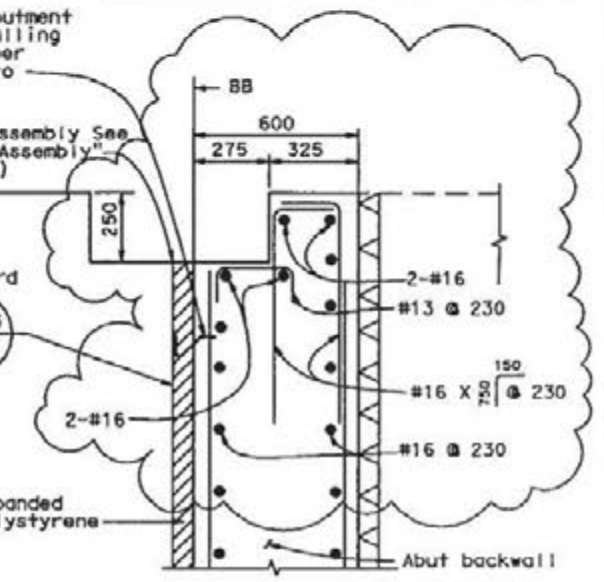
**PLAN - ABUT 1**  
1:50



**TYPICAL SECTION**  
1:25

3 x 305 Neoprene strip place prior to backfilling the abutment backwall and installing the temporary bumper (fold neoprene into chamfer)

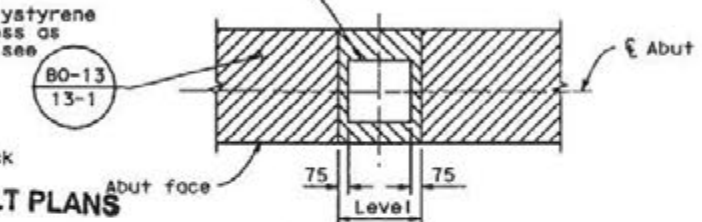
Joint seal assembly See "Joint Seal Assembly" Sheet (MR-90)



**TOP OF BACKWALL DETAIL 1**  
No Scale

76 x 410 x 350 Fabric reinforced elastomeric bearing pad or 76 x 410 x 350 steel reinforced elastomeric bearing pad, coat top of pads with silicon grease and cover with 560 x 500 x 2 thick galv sheet metal (4 req'd)

Expanded polystyrene same thickness as bearing pad see

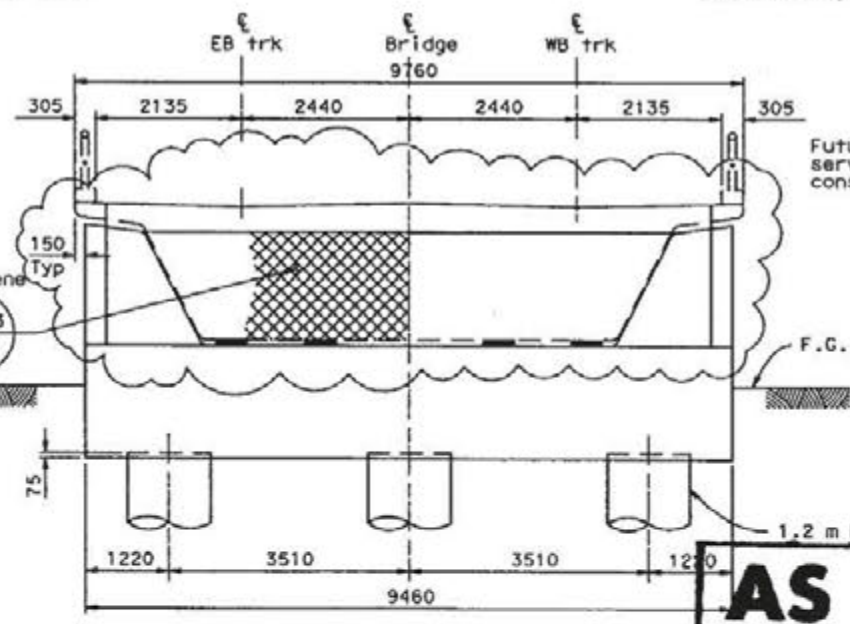


**AS BUILT PLANS**

Contract No. 07-1199U4

Reviewed By Engineer *N.P. Pandya*

**BEARING PAD PLAN - DETAIL 2**  
No Scale



**ELEVATION - ABUT 1**  
1:50

**AS BUILT**  
CORRECTIONS BY *B. KARRARA*  
CONTRACT NO. *07-119944*

**BEARING PAD ELEVATION**  
No Scale

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN OVERSIGHT *DEB GUYEN*  
SIGN OFF DATE: 7-10-03

|          |                 |              |          |
|----------|-----------------|--------------|----------|
| DATE     | BY              | CHECKED      | DATE     |
| 02-12-07 | YANG/PANDYA     | XIE          | 02-12-07 |
|          | NGUYEN/PSARLMAN | LEV/PANDYA   |          |
|          | OVERSTREET      | VARGAS/DULOR |          |

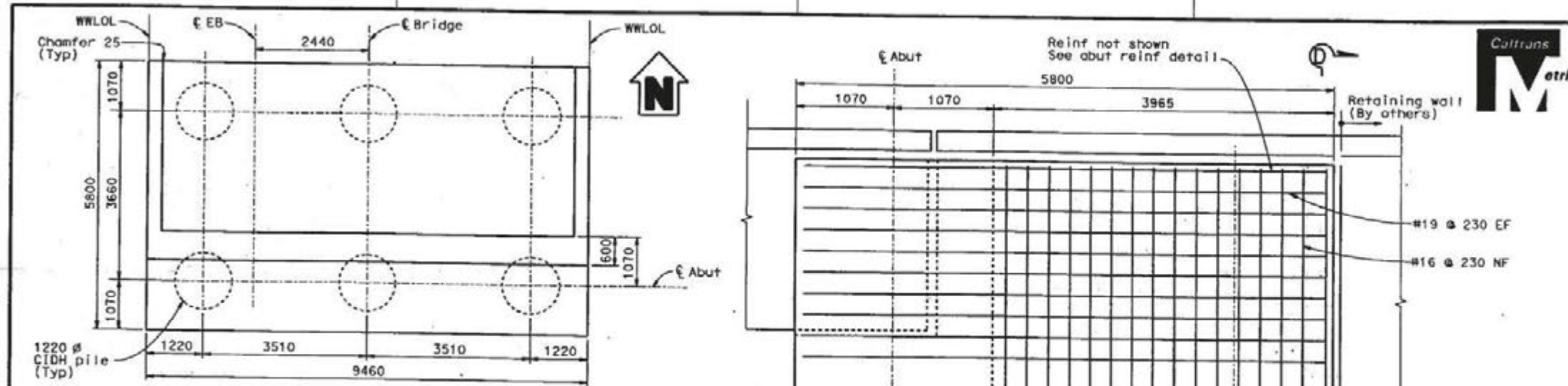
PREPARED FOR THE  
**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

DAN YAVORSKY  
PROJECT ENGINEER

BRIDGE NO.  
63-2915  
S2C-249  
KILOMETER POST  
1.07

**EASTSIDE UNDERPASS (LRT)**  
**ABUTMENT 1 DETAILS No. 1**

|                       |   |                                     |               |
|-----------------------|---|-------------------------------------|---------------|
| CU 07225<br>EA 1199U1 | DISPOSABLE PRINTS BEARING<br>EARLIER REVISION DATES | REVISION DATE (PUNCHING STAMP ONLY) | SHEET 8 OF 61 |
|-----------------------|---|-------------------------------------|---------------|



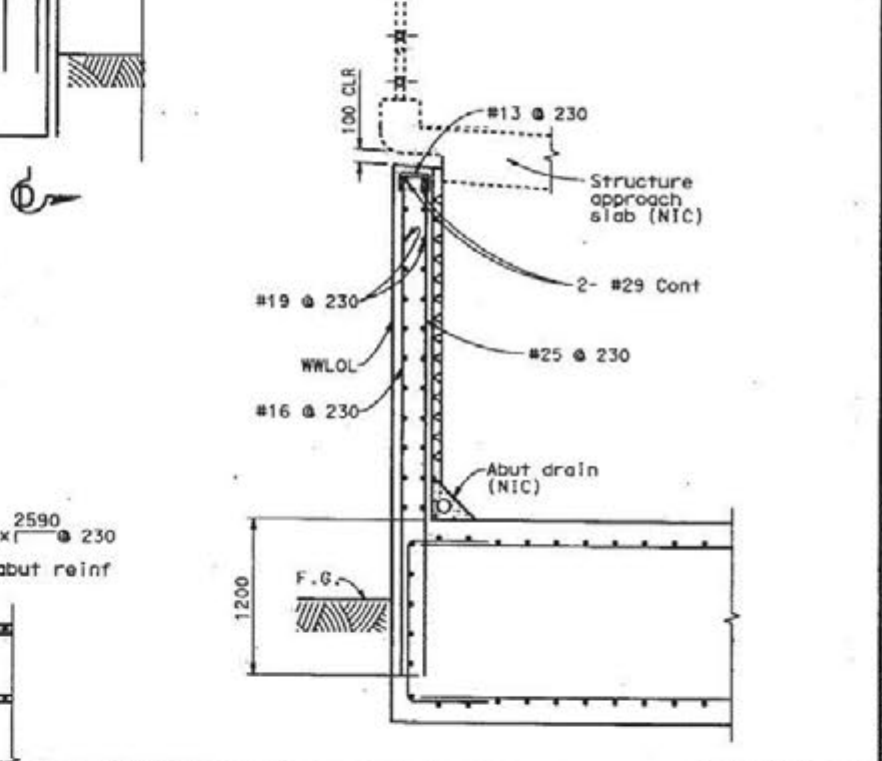
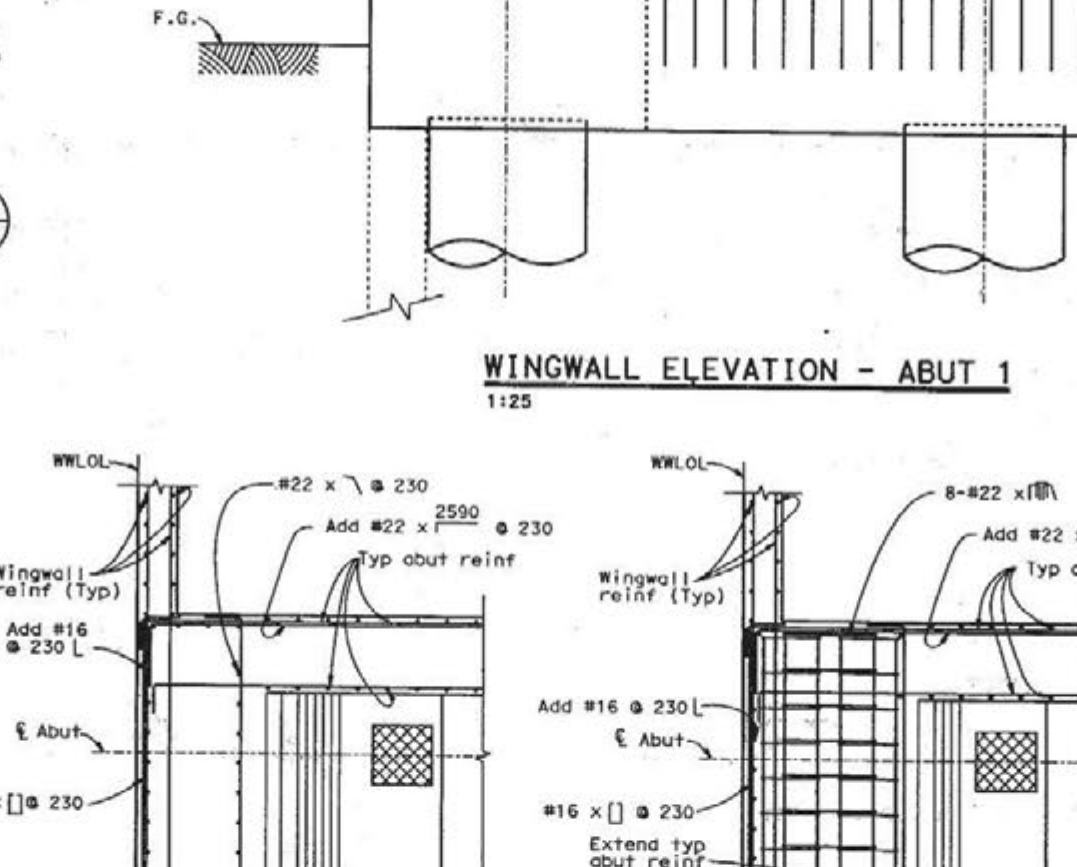
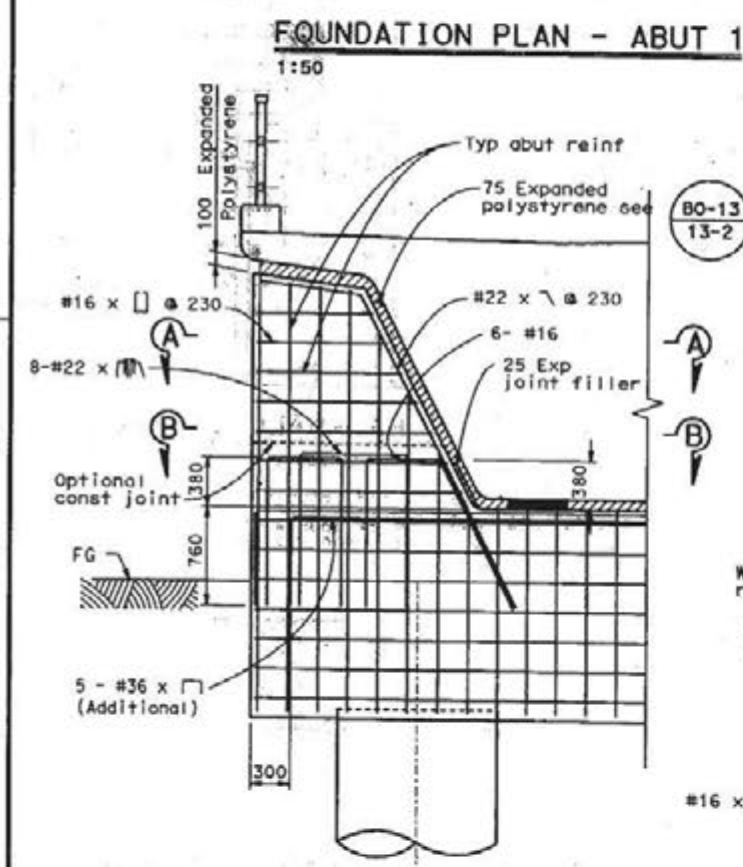
|      |        |       |                              |          |              |
|------|--------|-------|------------------------------|----------|--------------|
| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No | TOTAL SHEETS |
| 07   | LA     | 101   | 0.6/1.4                      | 274      | 326          |

REGISTERED CIVIL ENGINEER  
6-07-04  
PLANS APPROVAL DATE  
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**EASTSIDE LRT PARTNERS**  
707 WILSHIRE BLVD., SUITE 2900  
LOS ANGELES, CA 90017

**METROPOLITAN TRANSPORTATION AUTHORITY**  
ONE GATEWAY PLAZA  
LOS ANGELES, CA. 90012

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**AS BUILT** SECTION D-D AS BUILT PLANS  
1125  
Contract No. 07-1199U4  
Reviewed By Engineer *[Signature]*  
(N.P. Pandya)  
Date: 12-13-2007  
CORRECTIONS BY B. KABBARA  
CONTRACT NO. 07-1199U4  
DATE 02-12-2007 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

**No As-Built Changes**

|   |                          |                          |                                  |                    |   |
|---|--------------------------|--------------------------|----------------------------------|--------------------|---|
| DESIGN OVERSIGHT<br>7-40-03<br>BY: <i>[Signature]</i> | DESIGNER<br>LANG/PANDYA  | CHECKER<br>LEE/PANDYA    | PROJECT ENGINEER<br>DAN YAVORSKY | SCALE<br>1:07      | PROJECT<br>EASTSIDE UNDERPASS (LRT)<br>ABUTMENT 1 DETAILS No. 2 |
| DETAILS<br>NGUYEN/PEARLMAN                            | QUANTITIES<br>OVERSTREET | CHECKER<br>VARGAS/OLIVER | DEPARTMENT OF TRANSPORTATION     | DATE<br>02-12-2007 | SHEET 9 OF 61   |

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION  
CU 07225 EA 1199U1  
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS  
FILE -> 020611009.dgn

9

Contract No. 07-1199U4

Reviewed By Engineer *[Signature]*  
(N.P. Pandya)

Date 12-13-2007



| DIST | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | SHEET No. | TOTAL SHEETS |
|------|--------|-------|------------------------------|-----------|--------------|
| 07   | LA     | 101   | 0.6/1.4                      | 275       | 326          |

REGISTERED CIVIL ENGINEER  
DANIEL E. TAVORSKY  
No. SE 1700  
Exp. 8-30-05  
STRUCTURE  
STATE OF CALIFORNIA

PLANS APPROVAL DATE  
6-07-04

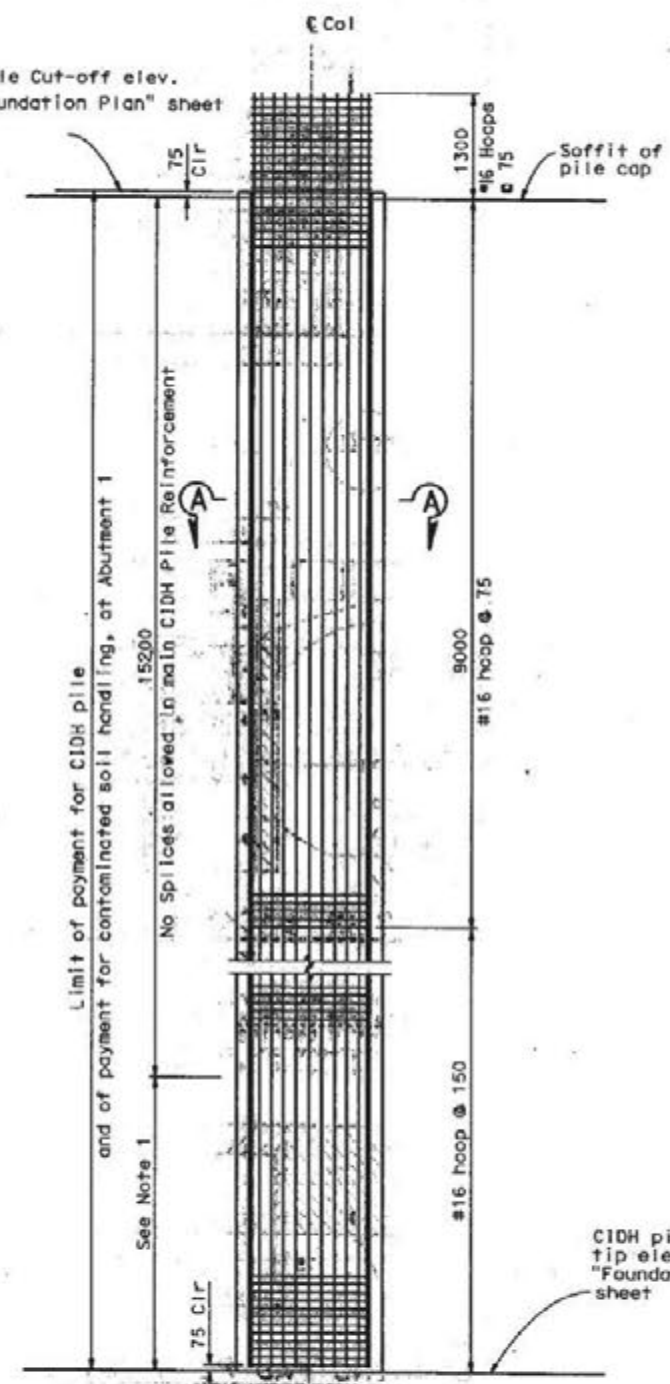
EASTSIDE LRT PARTNERS  
707 WILSHIRE BLVD. SUITE 2900  
LOS ANGELES, CA 90017

METROPOLITAN TRANSPORTATION AUTHORITY  
ONE GATEWAY PLAZA  
LOS ANGELES, CA 90012

Caltrans now has a web site! To get to the web site, go to <http://www.dtl.ca.gov>

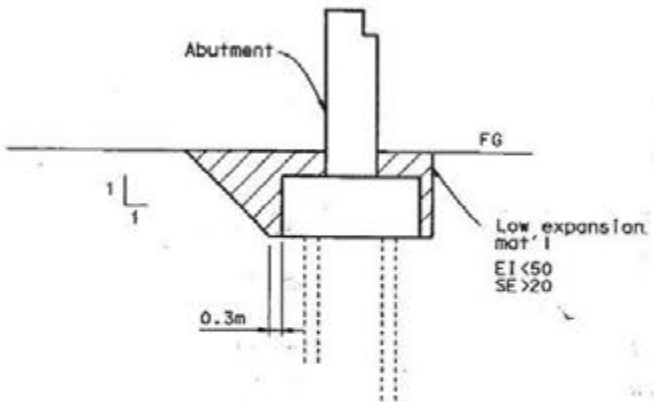
**AS BUILT**  
CORRECTIONS BY BASSEM KARBARA  
CONTRACT NO. 07-1199U4  
DATE 11/15/07

CIDH pile Cut-off elev. See "Foundation Plan" sheet

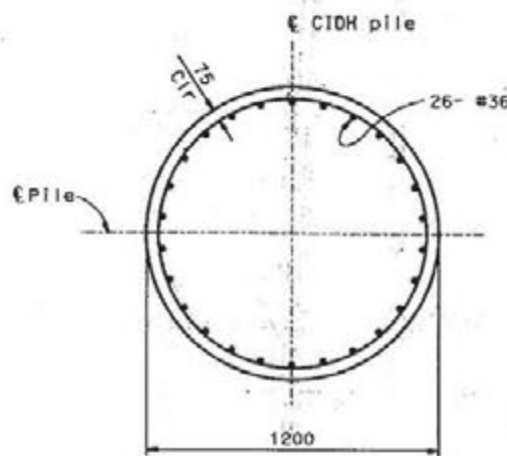


**ELEVATION (1.2 M Ø CIDH PILE)**  
1:40

- Notes:
1. Only staggered "Ultimate" butt splices are allowed in main CIDH pile reinforcement in this zone.
  2. All hoops are "Ultimate" butt spliced continuous.

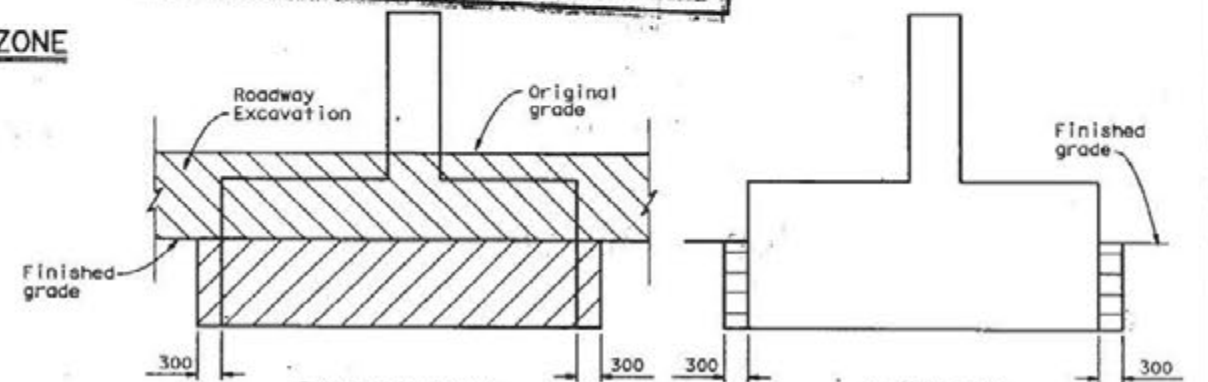


**EXPANSIVE SOIL EXCLUSION ZONE**  
No Scale



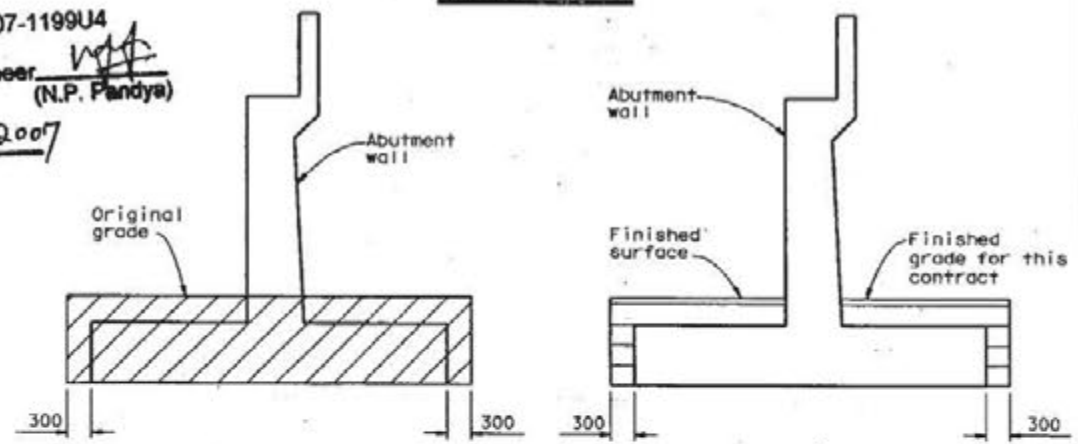
**SECTION A-A**  
No Scale

Structure excavation (bridge)  
Structure backfill (bridge)  
For additional details see **A62C**



**AS BUILT PLANS**

Contract No. 07-1199U4  
Reviewed By Engineer *[Signature]*  
(N.P. Pandya)  
Date 12-13-2007



**LIMITS OF PAYMENT FOR STRUCTURE EXCAVATION & BACKFILL**  
No Scale

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

|                             |                          |   |                             |  |  |
|-----------------------------|--------------------------|---|-----------------------------|--|--|
| DESIGN BY: YANG/PANDYA      | CHECKED BY: YUE          | PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION | BRIDGE NO. 33-2975 (33-344) | EASTSIDE UNDERPASS (LRT) ABUTMENT 1 DETAILS No.3 |  |
| DETAILS BY: NGUYEN/PEARLMAN | CHECKED BY: YUE/PANDYA   | DAN TAVORSKY PROJECT ENGINEER                                     | KILOMETER POST 1.07         |  |  |
| QUANTITY BY: OVERSTREET     | CHECKED BY: YANGAS/DALOR |   |                             |  |  |

DESIGN DETAIL SHEET METRIC REV. 3/1/96

OPTIONAL SCALE IN MILLIMETERS FOR REDUCED PLANS: 0 10 20 30 40 50 60 70 80 90 100

CU 07225 EA 1199U1

DISSEMINATED PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (MILEPOST) STAGE ONLY

SHEET 10 OF 61

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