

BUREAU OF ENGINEERING  
DEPARTMENT OF PUBLIC WORKS  
CITY OF LOS ANGELES  
CITY OF CULVER CITY  
HIGUERA STREET BRIDGE REPLACEMENT  
PROJECT NO. P553  
BHLS S240 (026)

VERTICAL CONTROL

VERTICAL VALUES SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) UTILIZING COUNTY OF LOS ANGELES AND CITY OF LOS ANGELES BENCHMARKS LISTED BELOW:

COUNTY OF LA BENCHMARK NO: Y9331, WATTS QUAD, BEING RDBM TAG IN NE COR C.B. @ JEFFERSON BL & HETZLER RD 12.2M(40FT) S/O & 9.8M(32FT) W/O APPROX C/L INT HAVING ELEVATION VALUE OF 79.600 FEET, 2005 ADJUSTMENT.

COUNTY OF LA BENCHMARK NO: Y10987, WATTS QUAD, BEING L&FLT HD SPK IN W CB @ BCR @ SW COR JEFFERSON BL & HOLDREGE AVE (N END C.B.) HAVING ELEVATION VALUE OF 85.247 FEET, 2005 ADJUSTMENT.

COUNTY OF LA BENCHMARK NO: Y11349, WATTS QUAD, BEING LRG SPK IN W CB @ S END C.B. 6.3M(20.7 FT) S/O DCR @ SW COR RODEO RD & LA CIENEGA BL HAVING ELEVATION VALUE OF 99.371 FEET 2005 ADJUSTMENT.

CITY OF LA BENCHMARK NO: 13-00910, SQ SPIKE IN CURB RODEO RD, 29 FT E OF E CURB LINE PROD OF LENAWEA AVE; W END CB HAVING ELEVATION VALUE OF 94.494 FEET 2000 ADJUSTMENT.

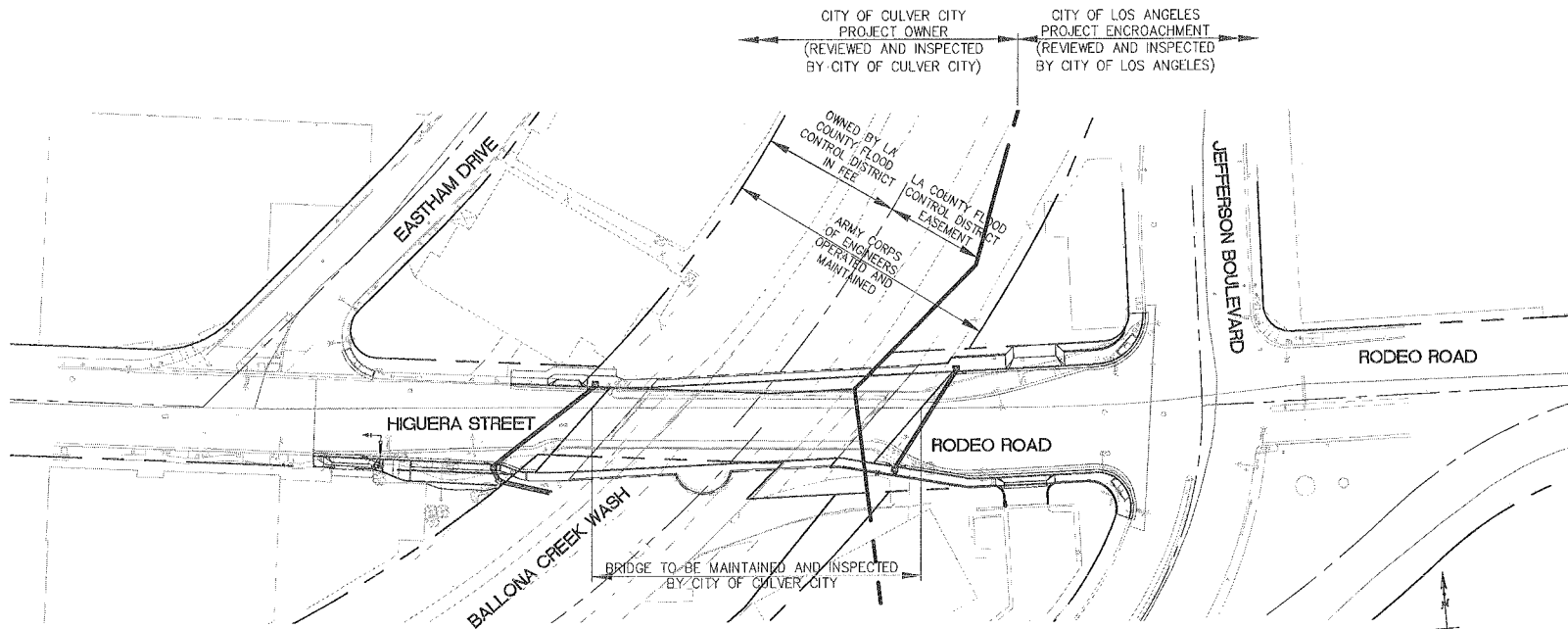
CITY OF LA BENCHMARK NO: 13-00930, WIRE SPIKE IN CURB HIGUERA ST, 32 FT W OF E END OF BRIDGE ACROSS BALLONA CREEK HAVING ELEVATION VALUE OF 83.205 FEET 2000 ADJUSTMENT.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 5 NAD 83 (EPOCH 2007.0) AS DETERMINED LOCALLY BY A LINE BETWEEN STA #112 AND STA #111 SHOWN AS SOUTH 86° 25' 12" EAST HEREON.

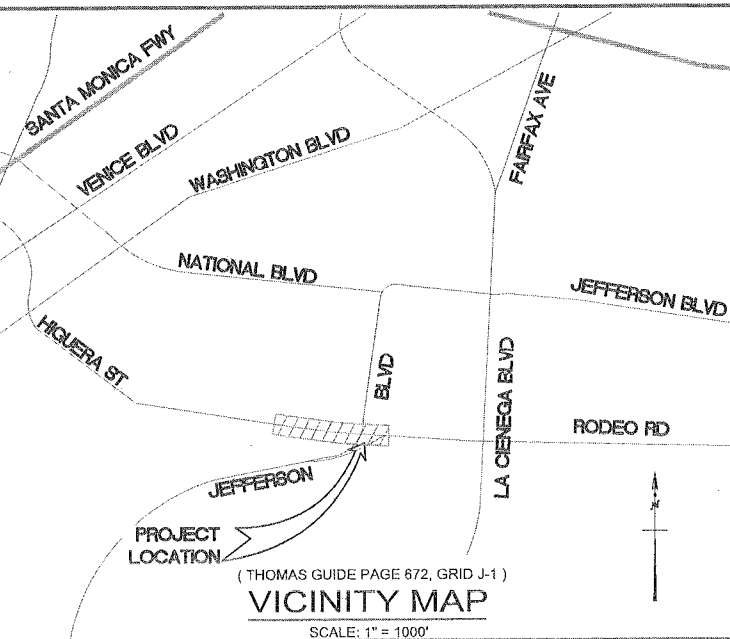
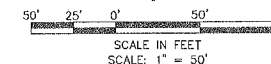
HORIZONTAL CONTROL

STATE PLANE COORDINATES, CALIFORNIA COORDINATE SYSTEM ZONE 5 BASED ON NAD83 (NSRS2007). THE HORIZONTAL COORDINATE VALUES SHOWN HEREON ARE BASED UPON LOCAL CONTROL POINTS AND DERIVED FROM THE GPS STATIC OBSERVATIONS UTILIZING DATA FROM SOUTHERN CALIFORNIA INTEGRATED GPS NETWORK (SCIGN) CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) "UCLP" (NGS PID: A14475), "FXHS" (NGS PID: A1866), "WRHS" (NGS PID: A1940) AND "NOPK" (NGS PID: A1897).



LIST OF UTILITY CONTACTS

| AGENCY                     | CONTACT              | PHONE NUMBER        |
|----------------------------|----------------------|---------------------|
| AT+T - CABLE               | MR. RUBEN GALVEZ     | (323) 224-3204      |
| AT+T - FIBER OPTIC         | MR. ANDREW FLOCK     | (918) 373-8521      |
| GOLDEN STATE WATER COMPANY | MR. DAN FLORES       | (714) 535-7711 x224 |
| SOUTHERN CALIFORNIA EDISON | MS. BEATRICE COLEMAN | (310) 315-3215      |



CITY OF CULVER CITY

PROJECT MANAGEMENT: PROJECT OWNER  
SAMMY ROMO  
PROJECT MANAGER

CITY OF LOS ANGELES

PROJECT MANAGEMENT: BUREAU OF ENGINEERING  
SHAHIN BEHDIN, P.E.  
CENTRAL DISTRICT MANAGER

DOT (DEPARTMENT OF TRANSPORTATION)  
FABIO ARIAS, P.E., T.E.  
TRANSPORTATION ENGINEER

BSL (BUREAU OF STREET LIGHTING)  
FILBERTO VILLEGAS  
STREET LIGHT ENGINEER

URBAN FORESTRY DIVISION  
STEPHEN DUPREY  
SUPERVISOR

CONSULTANTS

STRUCTURAL: IDC CONSULTING ENGINEERS, INC.  
SHAFI SHARIFAN, PhD, P.E.  
PROJECT MANAGER

TRAFFIC: PSOMAS  
ARIEF NAFTALI, P.E., T.E.  
PROJECT MANAGER

LANDSCAPE ARCHITECT: PETER BRANDOW & ASSOCIATES  
PETER BRANDOW, AIA, ASLA  
PROJECT MANAGER

ENVIRONMENTAL: GPA ENVIRONMENTAL  
ERINN PETERSON  
ASSOCIATE ENVIRONMENTAL PLANNER

STREETS: PSOMAS  
ARIEF NAFTALI, P.E., T.E.  
PROJECT MANAGER

SURVEY: PSOMAS  
MATTHEW ROWE, P.L.S.  
PROJECT MANAGER

GEOTECHNICAL: HUSHMAND ASSOCIATES, INC.  
VINCENT IP, PE, GE  
PROJECT MANAGER

CULVER CITY PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature]  
CHARLES D. HERBERTSON, P.E., L.S.  
PUBLIC WORKS DIRECTOR / CITY ENGINEER

REVIEWED BY: [Signature]  
SAMMY ROMO, P.E.  
ASSOCIATE ENGINEER

PLANS PREPARED BY: IDC Consulting Engineers, Inc.  
203 WEST CERRITOS AVENUE,  
ANAHEIM, CA 92805  
Tel (714) 520-9070 Fax (714) 520-9088

PSOMAS  
555 South Flower Street, Suite 4300  
Los Angeles, CA 90071  
(213) 223-1400 Fax (213) 223-1444



|                                                               |                      |
|---------------------------------------------------------------|----------------------|
| ENGINEERING<br>CITY OF LOS ANGELES                            | DATE: 11/14/2018     |
| PERMITS<br>BRO03512                                           | INDEX NO.            |
| REVISIONS:                                                    | APPROVALS: DATE: BY: |
| 1. URBAN FORESTRY                                             | DATE: DATE           |
| 2. D.O.T.                                                     | DATE: DATE           |
| 3. SURVEY                                                     | DATE: DATE           |
| 4. CENTRAL                                                    | DATE: DATE           |
| 5. BSL                                                        | DATE: DATE           |
| 6. PLAN CHECKER                                               | DATE: DATE           |
| 7. DIVISION / DISTRICT ENGINEER                               | DATE: DATE           |
| 8. CITY ENGINEER                                              | DATE: DATE           |
| 9. ACCEPTED BY: GARY LEE MOORE, P.E.                          | DATE: DATE           |
| 10. TITLE SHEET                                               | DATE: DATE           |
| 11. PROJECT: RODEO RD FROM JEFFERSON TO 245' W/O              | DATE: DATE           |
| 12. ADDRESS: HIGUERA STREET FROM EASTHAM DR TO JEFFERSON BLVD | DATE: DATE           |
| 13. SHEET 1 OF 43 SHEETS                                      | DATE: DATE           |











1. FOR CITY OF CULVER CITY ROADWAY IMPROVEMENTS SEE SHEET 5.
2. FOR CITY OF LOS ANGELES ROADWAY IMPROVEMENTS SEE SHEET 6.
3. FOR CITY OF LOS ANGELES AND CULVER CITY STORM DRAIN IMPROVEMENTS SEE SHEET 8.

THIS SURVEY HAS BEEN PREPARED FOR DESIGN PURPOSES

4. BEFORE USING THIS MAP FOR DESIGN OR CONSTRUCTION PURPOSES, ALL EASEMENTS RECORD AND SETBACK LINES DEFINED IN COVENANTS, CONDITIONS AND RESTRICTIONS OF RECORD AFFECTING THIS PROPERTY SHOULD BE PLOTTED ON THIS MAP FROM A CURRENT TITLE REPORT. IF NO TITLE REPORT WAS FURNISHED, OUR CLIENT IS URGED TO FURNISH CURRENT TITLE REPORT SO THAT THESE EASEMENT AND SETBACK LINES OF RECORD CAN BE PLOTTED ON THIS MAP.
5. THIS MAP SHOULD BE EXPANDED TO MEET ALTA REQUIREMENTS IF FINANCING IS TO BE OBTAINED FOR THE PROJECT, REQUIRING AN EXTENDED COVERAGE POLICY OF TITLE INSURANCE.
6. THIS SURVEY DOES NOT INCLUDE EASEMENTS EXCEPT THOSE SPECIFICALLY DELINEATED HEREON.
7. IF UNDERGROUND PUBLIC UTILITIES AND OTHER SUBSTRUCTURES, ZONES, SET BACK AND STREET WIDENING DATA ARE SHOWN HEREON, IT IS FOR INFORMATION ONLY, HAVING BEEN OBTAINED FROM A GENERAL REQUEST AT THE LOCAL AGENCY'S PUBLIC COUNTER AND/OR OTHER SOURCES NOT CONNECTED WITH THIS COMPANY. NO REPRESENTATION IS MADE AS TO THE ACCURACY, CURRENCY OR COMPLETENESS OF SAID INFORMATION AND ANY USERS OF SAID INFORMATION IS URGED TO CONTACT THE UTILITY OR LOCAL AGENCY DIRECTLY.

BOUNDARY LINES.....THIS MAP REPRESENTS A GRAPHICAL DEPICTION OF THE BOUNDARY OF THE SITE AND ADJOINING RIGHTS OF WAY BASED UPON COUNTY OF LOS ANGELES ASSESSOR MAPS AND OTHER PUBLIC RECORDS AND DOES NOT REPRESENT A FIELD SURVEY. THIS MAP IS INTENDED FOR FEASIBILITY AND PRELIMINARY PLANNING PURPOSES AND SHOULD NOT BE RELIED ON AS AN ACCURATE SURVEY OF THE PROPERTY LINES AND RIGHTS OF WAY.

LEGAL DESCRIPTION.....NON PROVIDED  
EASEMENTS.....NON PLOTTED  
TITLE REPORT.....NON PROVIDED

TOPOGRAPHY.....BY PHOTOGRAMMETRIC PROCESSES FROM AERIAL PHOTOGRAPHY DATED JUNE 20, 2011, AND COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS.

HORIZONTAL CONTROL.....STATE PLANE COORDINATES, CALIFORNIA COORDINATE SYSTEM ZONE 5 BASED ON NAD83 (NRSR2007). THE HORIZONTAL COORDINATE VALUES SHOWN HEREON ARE BASED UPON LOCAL CONTROL POINTS AND DERIVED FROM THE GPS STATIC OBSERVATIONS UTILIZING DATA FROM THE CALIFORNIA INTEGRATED GPS NETWORK (SCIGN) CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) "UCLP" (NGS PID: AJ4475), "FXHS" (NGS PID: AJ1866), "WRHS" (NGS PID: AJ1940) AND "NOPK" (NOS PIO: AJ1897).

BASIS OF BEARINGS.....THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 5 NAD 83 (EPOCH 2007.0) AS DETERMINED LOCALLY BY A LINE BETWEEN STA #112 AND STA #111 SHOWN AS SOUTH 86°25'12" EAST HEREON.

VERTICAL DATUM OF 1988 (NAVDD88) UTILIZING COUNTY OF LOS ANGELES  
AND CITY OF LOS ANGELES BENCHMARKS LISTED BELOW:

COUNTY OF LA BENCHMARK NO: Y9331, WATTS QUAD, BEING RDBM TAG IN  
NE COR C.B. 6 JEFFERSON BL & HETZLER RD 12.2M(40FT) S/O &  
9.8M(32FT) W/O APPROX C/L INT HAVING ELEVATION VALUE OF 79.800 FEET  
2005 ADJUSTMENT.

COUNTY OF LA BENCHMARK NO: Y10987, WATTS QUAD, BEING L&LT HD SPK  
IN W CB CI BCR N SW COR JEFFERSON BL & HOLDREGE AVE (N END C.B.)  
HAVING ELEVATION VALUE OF 85.247 FEET, 2005 ADJUSTMENT.

COUNTY OF LA BENCHMARK NO: Y11349, WATTS QUAD, BEING LRG SPK IN W  
CB N S END C.B. 6.3M(20.7FT) 5/0 BCR N SW COR RODEO RD & LA  
CIENEGA BL HAVING ELEVATION VALUE OF 99.371 FEET 2005 ADJUSTMENT.

CITY OF LA BENCH MARK NO: 13--00910, SQ SPIKE IN CURB RODEO RD, 29 FT E OF  
E CURB LINE PROD OF LENAWEE AVE; W END CB HAVING ELEVATION VALUE OF  
94.494 FEET 2000 ADJUSTMENT.

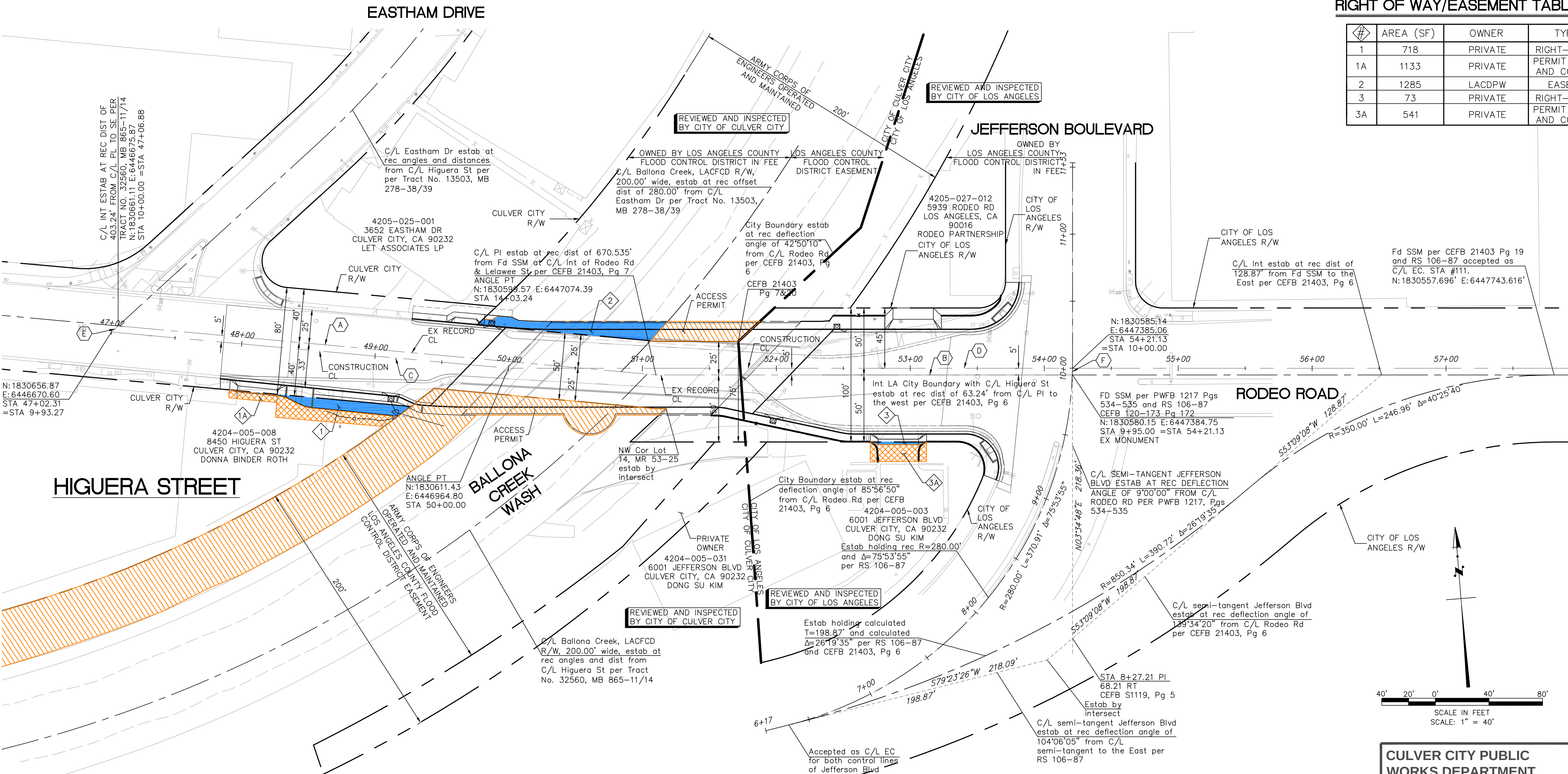
CITY OF LA BENCH MARK NO: 13--00930, WIRE SPIKE IN CURB HIGUERA ST, 32 FT W  
OF E END OF BRIDGE ACROSS BALLONA CREEK HAVING ELEVATION VALUE OF 83.205  
FEET 2000 ADJUSTMENT.

AERIAL SURVEY.....THIS SURVEY WAS PREPARED BY PHOTOGRAMMETRIC PROCESSES, UTILIZING  
AERIAL PHOTOGRAPHY DATED JUNE 20, 2011. THE OUTLINE OF BUILDINGS  
AND OTHER ROOFED IMPROVEMENTS, MAY INCLUDE EAVES, CANOPIES AND  
BALCONIES, SINCE BUILDINGS BELOW THESE ITEMS ARE NOT VISIBLE TO THE  
CAMERA.

|                                                                                     |                                    |
|-------------------------------------------------------------------------------------|------------------------------------|
|  | RIGHT OF WAY                       |
|  | CONSTRUCTION CENTERLINE            |
|  | EXISTING CENTERLINE                |
|  | RIGHT-OF-WAY EASEMENT              |
|  | PERMIT TO ENTER AND CONSTRUCT      |
|  | ACCESS PERMIT FROM LACDPW (LACFCD) |

| # | DELTA/BRG   | RADIUS | LENGTH  | TANGENT |
|---|-------------|--------|---------|---------|
| A | N81°13'13"W | —      | 242.89' | —       |
| B | N86°25'12"W | —      | 310.77' | —       |
| C | N81°13'13"W | —      | 297.69' | —       |
| D | N86°25'12"W | —      | 421.08' | —       |
| E | N51°11'29"E | —      | 6.77'   | —       |
| F | N03°34'48"E | —      | 5.00'   | —       |

| #  | AREA (SF) | OWNER   | TYPE                             |
|----|-----------|---------|----------------------------------|
| 1  | 718       | PRIVATE | RIGHT-OF-WAY                     |
| 1A | 1133      | PRIVATE | PERMIT TO ENTER<br>AND CONSTRUCT |
| 2  | 1285      | LACDPW  | EASEMENT                         |
| 3  | 73        | PRIVATE | RIGHT-OF-WAY                     |
| 3A | 541       | PRIVATE | PERMIT TO ENTER<br>AND CONSTRUCT |



40' 20' 0' 40' 80'

SCALE IN FEET  
SCALE: 1" = 40'

REVIEWED BY :

SAMMY ROMO, P.E. DATE

ASSOCIATE ENGINEER

|                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p style="margin: 0;">CITY OF LOS ANGELES</p> <p style="margin: 0;">DRAWING NO. 4</p> </div> <div style="width: 40%; text-align: center;"> <p style="margin: 0;">DEPARTMENT OF PUBLIC WORKS</p> </div> <div style="width: 30%; text-align: right;"> <p style="margin: 0;">BUREAU OF ENGINEERING</p> </div> </div>                 |                                                     |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="margin: 0;">VERTICAL CONTROL: <b>BHW 13-00310 AND BHW 13-00320 NAVIGER 2000ADJ</b></p> <p style="margin: 0;">HORIZONTAL CONTROL: SEE PLAN SHEETS FOR CONTROL LINE REFERENCE</p> </div> <div style="width: 55%; text-align: center;"> <p style="margin: 0; font-weight: bold;">HORIZONTAL CONTROL PLAN</p> </div> </div> |                                                     |
| SHEET TITLE:                                                                                                                                                                                                                                                                                                                                                                                                             | RODEO RD FROM JEFFERSON                             |
| PROJECT:                                                                                                                                                                                                                                                                                                                                                                                                                 | TO 246' W/O                                         |
| ADDRESS:                                                                                                                                                                                                                                                                                                                                                                                                                 | HIGUERA STREET FROM EASTHAM DR<br>TO JEFFERSON BLVD |

|                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p style="margin: 0;">CITY OF LOS ANGELES</p> <p style="margin: 0;">DRAWING NO. 4</p> </div> <div style="width: 40%; text-align: center;"> <p style="margin: 0;">DEPARTMENT OF PUBLIC WORKS</p> </div> <div style="width: 30%; text-align: right;"> <p style="margin: 0;">BUREAU OF ENGINEERING</p> </div> </div>                 |                                                     |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="margin: 0;">VERTICAL CONTROL: <b>BHW 13-00310 AND BHW 13-00320 NAVIGER 2000ADJ</b></p> <p style="margin: 0;">HORIZONTAL CONTROL: SEE PLAN SHEETS FOR CONTROL LINE REFERENCE</p> </div> <div style="width: 55%; text-align: center;"> <p style="margin: 0; font-weight: bold;">HORIZONTAL CONTROL PLAN</p> </div> </div> |                                                     |
| SHEET TITLE:                                                                                                                                                                                                                                                                                                                                                                                                             | RODEO RD FROM JEFFERSON                             |
| PROJECT:                                                                                                                                                                                                                                                                                                                                                                                                                 | TO 246' W/O                                         |
| ADDRESS:                                                                                                                                                                                                                                                                                                                                                                                                                 | HIGUERA STREET FROM EASTHAM DR<br>TO JEFFERSON BLVD |

|                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p style="margin: 0;">CITY OF LOS ANGELES</p> <p style="margin: 0;">DRAWING NO. 4</p> </div> <div style="width: 40%; text-align: center;"> <p style="margin: 0;">DEPARTMENT OF PUBLIC WORKS</p> </div> <div style="width: 30%; text-align: right;"> <p style="margin: 0;">BUREAU OF ENGINEERING</p> </div> </div>                 |                                                     |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="margin: 0;">VERTICAL CONTROL: <b>BHW 13-00310 AND BHW 13-00320 NAVIGER 2000ADJ</b></p> <p style="margin: 0;">HORIZONTAL CONTROL: SEE PLAN SHEETS FOR CONTROL LINE REFERENCE</p> </div> <div style="width: 55%; text-align: center;"> <p style="margin: 0; font-weight: bold;">HORIZONTAL CONTROL PLAN</p> </div> </div> |                                                     |
| SHEET TITLE:                                                                                                                                                                                                                                                                                                                                                                                                             | RODEO RD FROM JEFFERSON                             |
| PROJECT:                                                                                                                                                                                                                                                                                                                                                                                                                 | TO 246' W/O                                         |
| ADDRESS:                                                                                                                                                                                                                                                                                                                                                                                                                 | HIGUERA STREET FROM EASTHAM DR<br>TO JEFFERSON BLVD |

|                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p style="margin: 0;">CITY OF LOS ANGELES</p> <p style="margin: 0;">DRAWING NO. 4</p> </div> <div style="width: 40%; text-align: center;"> <p style="margin: 0;">DEPARTMENT OF PUBLIC WORKS</p> </div> <div style="width: 30%; text-align: right;"> <p style="margin: 0;">BUREAU OF ENGINEERING</p> </div> </div>                 |                                                     |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="margin: 0;">VERTICAL CONTROL: <b>BHW 13-00310 AND BHW 13-00320 NAVIGER 2000ADJ</b></p> <p style="margin: 0;">HORIZONTAL CONTROL: SEE PLAN SHEETS FOR CONTROL LINE REFERENCE</p> </div> <div style="width: 55%; text-align: center;"> <p style="margin: 0; font-weight: bold;">HORIZONTAL CONTROL PLAN</p> </div> </div> |                                                     |
| SHEET TITLE:                                                                                                                                                                                                                                                                                                                                                                                                             | RODEO RD FROM JEFFERSON                             |
| PROJECT:                                                                                                                                                                                                                                                                                                                                                                                                                 | TO 246' W/O                                         |
| ADDRESS:                                                                                                                                                                                                                                                                                                                                                                                                                 | HIGUERA STREET FROM EASTHAM DR<br>TO JEFFERSON BLVD |

|                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p style="margin: 0;">CITY OF LOS ANGELES</p> <p style="margin: 0;">DRAWING NO. 4</p> </div> <div style="width: 40%; text-align: center;"> <p style="margin: 0;">DEPARTMENT OF PUBLIC WORKS</p> </div> <div style="width: 30%; text-align: right;"> <p style="margin: 0;">BUREAU OF ENGINEERING</p> </div> </div>                 |                                                     |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="margin: 0;">VERTICAL CONTROL: <b>BHW 13-00310 AND BHW 13-00320 NAVIGER 2000ADJ</b></p> <p style="margin: 0;">HORIZONTAL CONTROL: SEE PLAN SHEETS FOR CONTROL LINE REFERENCE</p> </div> <div style="width: 55%; text-align: center;"> <p style="margin: 0; font-weight: bold;">HORIZONTAL CONTROL PLAN</p> </div> </div> |                                                     |
| SHEET TITLE:                                                                                                                                                                                                                                                                                                                                                                                                             | RODEO RD FROM JEFFERSON                             |
| PROJECT:                                                                                                                                                                                                                                                                                                                                                                                                                 | TO 246' W/O                                         |
| ADDRESS:                                                                                                                                                                                                                                                                                                                                                                                                                 | HIGUERA STREET FROM EASTHAM DR<br>TO JEFFERSON BLVD |

|                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p style="margin: 0;">CITY OF LOS ANGELES</p> <p style="margin: 0;">DRAWING NO. 4</p> </div> <div style="width: 40%; text-align: center;"> <p style="margin: 0;">DEPARTMENT OF PUBLIC WORKS</p> </div> <div style="width: 30%; text-align: right;"> <p style="margin: 0;">BUREAU OF ENGINEERING</p> </div> </div>                 |                                                     |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="margin: 0;">VERTICAL CONTROL: <b>BHW 13-00310 AND BHW 13-00320 NAVIGER 2000ADJ</b></p> <p style="margin: 0;">HORIZONTAL CONTROL: SEE PLAN SHEETS FOR CONTROL LINE REFERENCE</p> </div> <div style="width: 55%; text-align: center;"> <p style="margin: 0; font-weight: bold;">HORIZONTAL CONTROL PLAN</p> </div> </div> |                                                     |
| SHEET TITLE:                                                                                                                                                                                                                                                                                                                                                                                                             | RODEO RD FROM JEFFERSON                             |
| PROJECT:                                                                                                                                                                                                                                                                                                                                                                                                                 | TO 246' W/O                                         |
| ADDRESS:                                                                                                                                                                                                                                                                                                                                                                                                                 | HIGUERA STREET FROM EASTHAM DR<br>TO JEFFERSON BLVD |

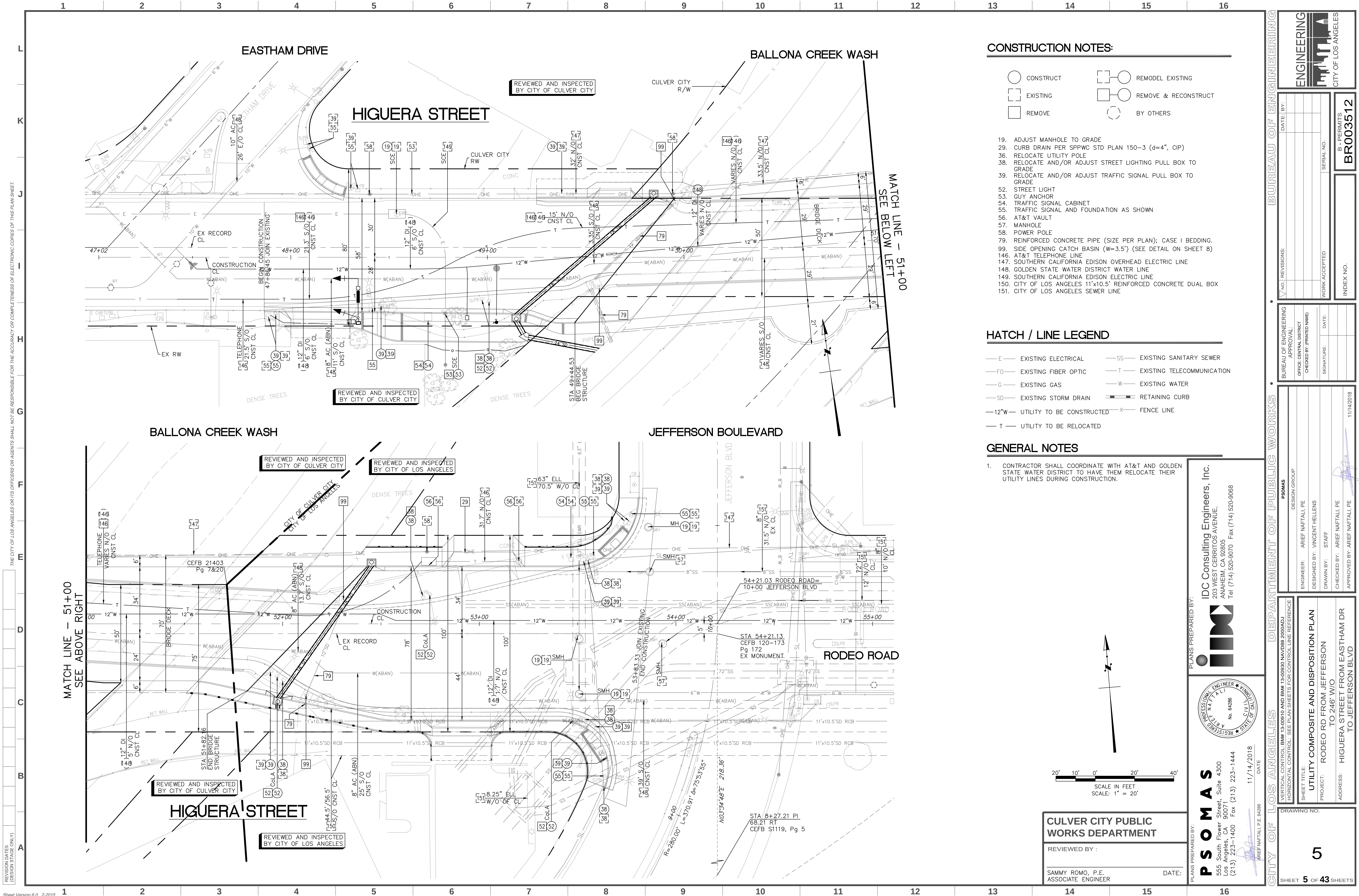
  

|                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p style="margin: 0;">CITY OF LOS ANGELES</p> <p style="margin: 0;">DRAWING NO. 4</p> </div> <div style="width: 40%; text-align: center;"> <p style="margin: 0;">DEPARTMENT OF PUBLIC WORKS</p> </div> <div style="width: 30%; text-align: right;"> <p style="margin: 0;">BUREAU OF ENGINEERING</p> </div> </div>                 |                                                     |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="margin: 0;">VERTICAL CONTROL: <b>BHW 13-00310 AND BHW 13-00320 NAVIGER 2000ADJ</b></p> <p style="margin: 0;">HORIZONTAL CONTROL: SEE PLAN SHEETS FOR CONTROL LINE REFERENCE</p> </div> <div style="width: 55%; text-align: center;"> <p style="margin: 0; font-weight: bold;">HORIZONTAL CONTROL PLAN</p> </div> </div> |                                                     |
| SHEET TITLE:                                                                                                                                                                                                                                                                                                                                                                                                             | RODEO RD FROM JEFFERSON                             |
| PROJECT:                                                                                                                                                                                                                                                                                                                                                                                                                 | TO 246' W/O                                         |
| ADDRESS:                                                                                                                                                                                                                                                                                                                                                                                                                 | HIGUERA STREET FROM EASTHAM DR<br>TO JEFFERSON BLVD |

|                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p style="margin: 0;">CITY OF LOS ANGELES</p> <p style="margin: 0;">DRAWING NO. 4</p> </div> <div style="width: 40%; text-align: center;"> <p style="margin: 0;">DEPARTMENT OF PUBLIC WORKS</p> </div> <div style="width: 30%; text-align: right;"> <p style="margin: 0;">BUREAU OF ENGINEERING</p> </div> </div>                 |                                                     |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="margin: 0;">VERTICAL CONTROL: <b>BHW 13-00310 AND BHW 13-00320 NAVIGER 2000ADJ</b></p> <p style="margin: 0;">HORIZONTAL CONTROL: SEE PLAN SHEETS FOR CONTROL LINE REFERENCE</p> </div> <div style="width: 55%; text-align: center;"> <p style="margin: 0; font-weight: bold;">HORIZONTAL CONTROL PLAN</p> </div> </div> |                                                     |
| SHEET TITLE:                                                                                                                                                                                                                                                                                                                                                                                                             | RODEO RD FROM JEFFERSON                             |
| PROJECT:                                                                                                                                                                                                                                                                                                                                                                                                                 | TO 246' W/O                                         |
| ADDRESS:                                                                                                                                                                                                                                                                                                                                                                                                                 | HIGUERA STREET FROM EASTHAM DR<br>TO JEFFERSON BLVD |





CONSTRUCTION NOTES:

- CONSTRUCT
- EXISTING
- REMOVE
- REMODEL EXISTING
- REMOVE & RECONSTRUCT
- BY OTHERS

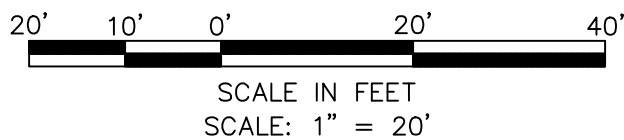
- ADJUST MANHOLE TO GRADE
- CURB DRAIN PER SPPWC STD PLAN 150-3 (d=4", CIP)
- RELOCATE UTILITY POLE
- RELOCATE AND/OR ADJUST STREET LIGHTING PULL BOX TO GRADE
- RELOCATE AND/OR ADJUST TRAFFIC SIGNAL PULL BOX TO GRADE
- STREET LIGHT
- GUY ANCHOR
- TRAFFIC SIGNAL CABINET
- TRAFFIC SIGNAL AND FOUNDATION AS SHOWN
- AT&T VAULT
- MANHOLE
- POWER POLE
- REINFORCED CONCRETE PIPE (SIZE PER PLAN); CASE 1 BEDDING
- SIDE OPENING CATCH BASIN (W=3.5') (SEE DETAIL ON SHEET 8)
- AT&T TELEPHONE LINE
- SOUTHERN CALIFORNIA EDISON OVERHEAD ELECTRIC LINE
- GOLDEN STATE WATER DISTRICT WATER LINE
- SOUTHERN CALIFORNIA EDISON ELECTRIC LINE
- CITY OF LOS ANGELES 11"x10.5" REINFORCED CONCRETE DUAL BOX
- CITY OF LOS ANGELES SEWER LINE

HATCH / LINE LEGEND

- E EXISTING ELECTRICAL
- FO EXISTING FIBER OPTIC
- G EXISTING GAS
- SD EXISTING STORM DRAIN
- 12"W UTILITY TO BE CONSTRUCTED
- T UTILITY TO BE RELOCATED
- SS EXISTING SANITARY SEWER
- T EXISTING TELECOMMUNICATION
- W EXISTING WATER
- RETAINING CURB
- FENCE LINE

GENERAL NOTES

- CONTRACTOR SHALL COORDINATE WITH AT&T AND GOLDEN STATE WATER DISTRICT TO HAVE THEM RELOCATE THEIR UTILITY LINES DURING CONSTRUCTION.

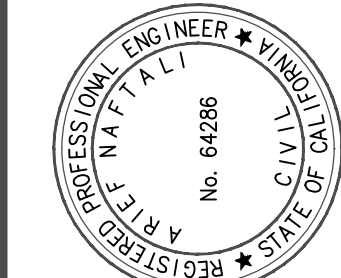
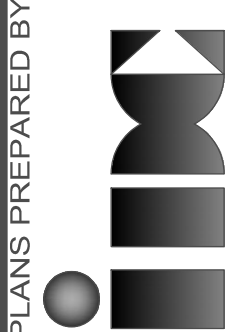


CULVER CITY PUBLIC WORKS DEPARTMENT

REVIEWED BY :  
SAMMY ROMO, P.E.  
ASSOCIATE ENGINEER

DATE:

PLANS PREPARED BY:  
**PSOMAS**  
IDC Consulting Engineers, Inc.  
203 WEST CERRITOS AVENUE,  
ANAHEIM, CA 92805  
Tel (714) 520-9070 Fax (714) 520-9068



REVISION DATES  
(DESIGN STAGE ONLY)

**BUREAU OF ENGINEERING**

ENGINEERING  
CITY OF LOS ANGELES

DATE: BY:

NO. REVISIONS:

WORK ACCEPTED

SERIAL NO.

B - PERMITS  
BR003512

INDEX NO.

**DEPARTMENT OF PUBLIC WORKS**

DESIGN GROUP

ENGINEER: ARIEF NATTALI, PE

DESIGNED BY: VINCENT HELLENS

DRAWN BY: STAFF

CHECKED BY: ARIEF NATTALI, PE

APPROVED BY: ARIEF NATTALI, PE

11/14/2018

**CITY OF LOS ANGELES**

UTILITY COMPOSITE AND DISPOSITION PLAN

PROJECT: RODEO RD FROM JEFFERSON TO 246' W/O

ADDRESS: HIGUERA STREET FROM EASTHAM DR TO JEFFERSON BLVD

SHEET 5 OF 43 SHEETS

**PSOMAS**

555 South Flower Street, Suite 4300  
Los Angeles, CA 90071  
(213) 223-1400 Fax (213) 223-1444

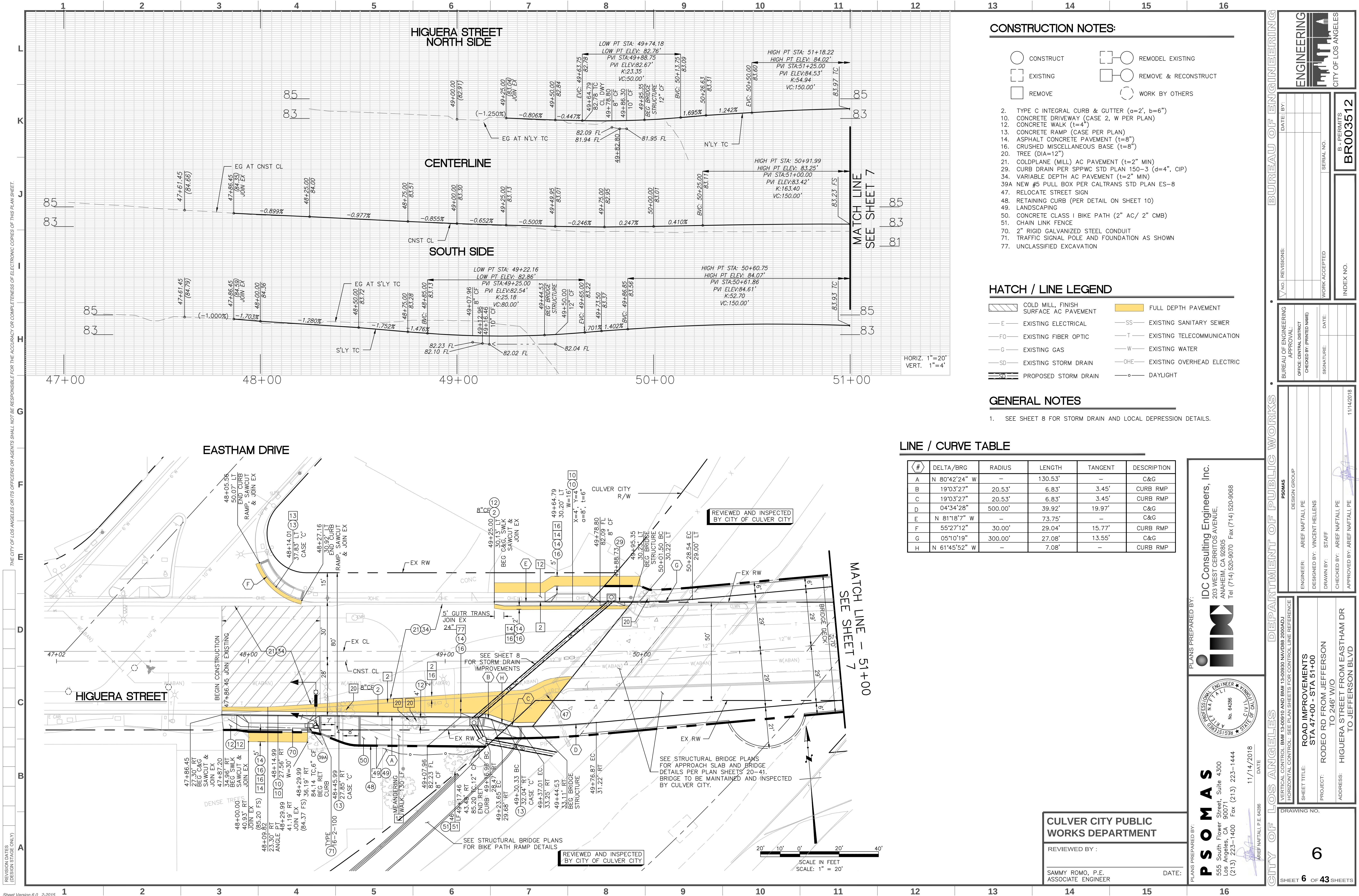
11/14/2018

ARIEF NATTALI, P.E. 64286



THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES  
(DESIGN STAGE ONLY)



CONSTRUCTION NOTES:

- CONSTRUCT
  - EXISTING
  - REMOVE
  - REMODEL EXISTING
  - REMOVE & RECONSTRUCT
  - WORK BY OTHERS
- TYPE C INTEGRAL CURB & GUTTER (a=2', b=6")
  - CONCRETE DRIVEWAY (CASE 2, W PER PLAN)
  - CONCRETE WALK (t=4")
  - CONCRETE RAMP (CASE PER PLAN)
  - ASPHALT CONCRETE PAVEMENT (t=8")
  - CRUSHED MISCELLANEOUS BASE (t=8")
  - TREE (DIA=12")
  - COLDPLANE (MILL) AC PAVEMENT (t=2" MIN)
  - CURB DRAIN PER SPPWC STD PLAN 150-3 (d=4", CIP)
  - VARIABLE DEPTH AC PAVEMENT (t=2" MIN)
  - NEW #5 PULL BOX PER CALTRANS STD PLAN ES-8
  - RELOCATE STREET SIGN
  - RETAINING CURB (PER DETAIL ON SHEET 10)
  - LANDSCAPING
  - CONCRETE CLASS I BIKE PATH (2" AC/ 2" CMB)
  - CHAIN LINK FENCE
  - 2" RIGID GALVANIZED STEEL CONDUIT
  - TRAFFIC SIGNAL POLE AND FOUNDATION AS SHOWN
  - UNCLASSIFIED EXCAVATION

HATCH / LINE LEGEND

- COLD MILL, FINISH SURFACE AC PAVEMENT
- EXISTING ELECTRICAL
- EXISTING FIBER OPTIC
- EXISTING GAS
- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- FULL DEPTH PAVEMENT
- EXISTING SANITARY SEWER
- EXISTING TELECOMMUNICATION
- EXISTING WATER
- EXISTING OVERHEAD ELECTRIC
- DAYLIGHT

GENERAL NOTES

- SEE SHEET 8 FOR STORM DRAIN AND LOCAL DEPRESSION DETAILS.

LINE / CURVE TABLE

| # | DELTA/BRG     | RADIUS  | LENGTH  | TANGENT | DESCRIPTION |
|---|---------------|---------|---------|---------|-------------|
| A | N 80°42'24" W | -       | 130.53' | -       | C&G         |
| B | 19°03'27"     | 20.53'  | 6.83'   | 3.45'   | CURB RMP    |
| C | 19°03'27"     | 20.53'  | 6.83'   | 3.45'   | CURB RMP    |
| D | 04°34'28"     | 500.00' | 39.92'  | 19.97'  | C&G         |
| E | N 81°18'7" W  | -       | 73.75'  | -       | C&G         |
| F | 55°27'12"     | 30.00'  | 29.04'  | 15.77'  | CURB RMP    |
| G | 05°10'19"     | 300.00' | 27.08'  | 13.55'  | C&G         |
| H | N 61°45'52" W | -       | 7.08'   | -       | CURB RMP    |

CULVER CITY PUBLIC WORKS DEPARTMENT

REVIEWED BY :  
SAMMY ROMO, P.E.  
ASSOCIATE ENGINEER

DATE:

**BUREAU OF ENGINEERING**

ENGINEERING  
CITY OF LOS ANGELES

DATE: BY:

SERIAL NO.

B - PERMITS  
BR003512

BUREAU OF ENGINEERING  
APPROVAL:

OFFICE: CENTRAL DISTRICT  
CHECKED BY: (PRINTED NAME)

SIGNATURE

DATE:

DESIGN GROUP  
PSOMAS

ENGINEER: ARIEF NATALI, PE

DESIGNED BY: VINCENT HELLENS

DRAWN BY: STAFF

CHECKED BY: ARIEF NATALI, PE

APPROVED BY: ARIEF NATALI, PE

11/14/2018

PLANS PREPARED BY:  
IDC Consulting Engineers, Inc.  
203 WEST CERRITOS AVENUE  
ANAHEIM, CA 92805  
Tel (714) 520-9070 Fax (714) 520-9068

REGISTERED PROFESSIONAL ENGINEER  
No. 64286  
STATE OF CALIFORNIA  
CIVIL

11/14/2018

DATE

**CITY OF LOS ANGELES**

DEPARTMENT OF PUBLIC WORKS

VERTICAL CONTROL: BM# 13-00910 AND BM# 13-00930 NAVPERS 2000ADJ  
HORIZONTAL CONTROL: SEE PLAN SHEETS FOR CONTROL LINE REFERENCE

SHEET TITLE:  
ROAD IMPROVEMENTS  
STA 47+00 - STA 51+00

PROJECT:  
RODEO RD FROM JEFFERSON  
TO 246' W/O

ADDRESS:  
HIGUERA STREET FROM EASTHAM DR  
TO JEFFERSON BLVD

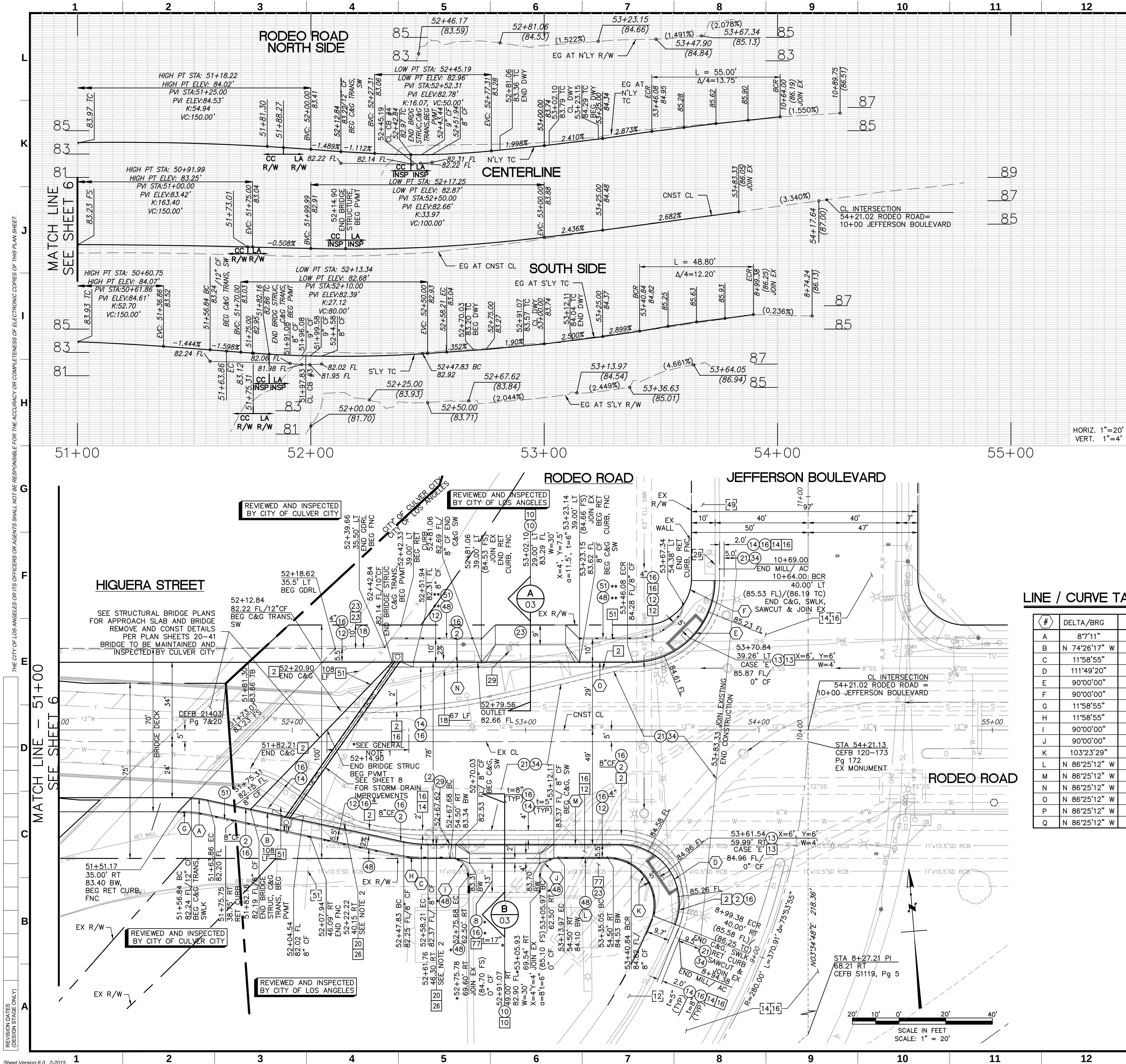
DRAWING NO.  
6

SHEET 6 OF 43 SHEETS



THE CITY OF LOS ANGELES OR ITS OFFICIALS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Revision Dates (Design Stage Only)



CONSTRUCTION NOTES:

- CONSTRUCT
  - EXISTING
  - REMOVE
  - REMODEL EXISTING
  - REMOVE & RECONSTRUCT
2. TYPE C INTEGRAL CURB & GUTTER (a=2', b=6")
  8. CONCRETE PAVEMENT (t PER PLAN, type=520-A-2500)
  10. CONCRETE DRIVEWAY (CASE 2, W PER PLAN)
  12. CONCRETE WALK (t=4")
  13. CONCRETE RAMP (CASE PER PLAN)
  14. ASPHALT CONCRETE PAVEMENT (t=8")
  16. CRUSHED MISCELLANEOUS BASE (t=8")
  18. METAL BEAM GUARDRAIL
  20. TREE (DIA=12")
  21. COLDPLANE (MILL) AC PAVEMENT (t=2" MIN)
  23. GRADE ONLY
  26. TREE WELL
  29. CURB DRAIN PER SPPWC STD PLAN 150-3 (d=4", CIP)
  34. VARIABLE DEPTH AC PAVEMENT (t=2" MIN)
  48. RETAINING CURB (PER DETAIL ON SHEET 10)
  49. LANDSCAPING
  51. CHAIN LINK FENCE
  77. UNCLASSIFIED EXCAVATION

\*\* REVOCABLE PERMIT REFERENCE NO: 20160000235

HATCH / LINE LEGEND

- E — EXISTING ELECTRICAL
- FO — EXISTING FIBER OPTIC
- G — EXISTING GAS
- SD — EXISTING STORM DRAIN
- OHE — EXISTING OVERHEAD ELECTRIC
- SS — EXISTING SANITARY SEWER
- T — EXISTING TELECOMMUNICATION
- W — EXISTING WATER
- SL — EXISTING STREET LIGHTING
- PROPOSED STORM DRAIN
- RETAINING CURB
- X — FENCE

GENERAL NOTES

1. CONTRACTOR SHALL TRANSITION FROM PARABOLIC PAVING SECTION AT STA 52+50 TO CONFORM TO BRIDGE APPROACH SLAB GRADES.
2. CONTRACTOR SHALL COORDINATE WITH THE CITY OF LOS ANGELES URBAN FORESTRY DISTRICT (UFD) TO REMOVE AND DELIVER (4) FOUR MITIGATED TREES TO UFD NURSERY.
3. SEE SHEET 8 FOR STORM DRAIN AND LOCAL DEPRESSION DETAILS.
4. IMPROVEMENTS IN PRIVATE PROPERTY, OUTSIDE THE CITY OF LOS ANGELES RIGHT-OF-WAY SHALL BE INSPECTED AND REVIEWED BY OTHERS.
5. PLANTER POTS WILL BE HAND-WATERED. NO IRRIGATION WILL BE INSTALLED.

LINE / CURVE TABLE

| # | DELTA/BRG     | RADIUS | LENGTH | TANGENT | DESCRIPTION |
|---|---------------|--------|--------|---------|-------------|
| A | 87°11"        | 50.00' | 7.09'  | 3.55'   | C&G         |
| B | N 74°26'17" W | -      | 85.84' | -       | C&G         |
| C | 11°58'55"     | 50.00' | 10.46' | 5.25'   | C&G         |
| D | 11°49'20"     | 25.00' | 48.79' | 36.94'  | CURB RMP    |
| E | 90°00'00"     | 35.00' | 54.98' | 35.00'  | CURB RMP    |
| F | 90°00'00"     | 20.00' | 31.42' | 20.00'  | BW          |
| G | 11°58'55"     | 44.00' | 9.20'  | 4.62'   | RET CURB    |
| H | 11°58'55"     | 40.00' | 8.36'  | 4.20'   | RET CURB    |
| I | 90°00'00"     | 8.00'  | 12.57' | 8.00'   | RET CURB    |
| J | 90°00'00"     | 8.00'  | 12.57' | 8.00'   | RET CURB    |
| K | 103°23'29"    | 20.50' | 36.99' | 25.95'  | RET CURB    |
| L | N 86°25'12" W | -      | 28.72' | -       | C&G         |
| M | N 86°25'12" W | -      | 21.08' | -       | RET CURB    |
| N | N 86°25'12" W | -      | 68.22' | -       | C&G         |
| O | N 86°25'12" W | -      | 22.94' | -       | C&G         |
| P | N 86°25'12" W | -      | 34.50' | -       | RET CURB    |
| Q | N 86°25'12" W | -      | 27.94' | -       | RET CURB    |

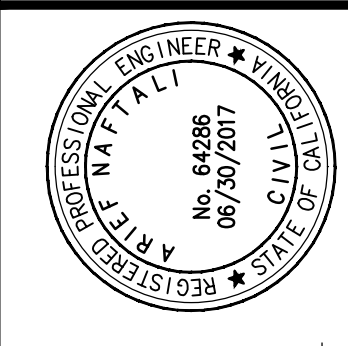


CULVER CITY PUBLIC WORKS DEPARTMENT

REVIEWED BY: SAMMY ROMO, P.E. ASSOCIATE ENGINEER

DATE:

PLANS PREPARED BY: IDC Consulting Engineers, Inc. 203 WEST CERRITOS AVENUE, ANAHEIM, CA 92805 Tel (714) 520-9070 Fax (714) 520-9068



PROJECT: RODEO RD FROM JEFFERSON TO 246' W/O HIGUERA STREET FROM EASTHAM DR TO JEFFERSON BLVD

**BUREAU OF ENGINEERING**

ENGINEERING CITY OF LOS ANGELES

DATE: BY:

NO. REVISIONS:

BUREAU OF ENGINEERING APPROVAL: OFFICE: CENTRAL DISTRICT CHECKED BY: (PRINTED NAME) TERRY PHAN

SIGNATURE: DATE: 04/30/2017

WORK ACCEPTED: SERIAL NO. B - PERMITS BR003512

INDEX NO. P-38252

**PSOMAS**

REGISTERED PROFESSIONAL ENGINEER - CIVIL

555 South Flower Street, Suite 4300 Los Angeles, CA 90071 (213) 223-1400 Fax (213) 223-1444

10/24/2016 DATE: ARIEFF NATTALI, P.E. 64286

**CITY OF LOS ANGELES**

DEPARTMENT OF PUBLIC WORKS

DESIGN GROUP: PSOMAS

ENGINEER: ARIEFF NATTALI, PE

DESIGNED BY: VINCENT HELLENS

DRAWN BY: STAFF

CHECKED BY: ARIEFF NATTALI, PE

APPROVED BY: ARIEFF NATTALI, PE 07/15/16

SHEET TITLE: CIVIL IMPROVEMENTS STA 51+00 - STA 54+00

PROJECT: RODEO RD FROM JEFFERSON TO 246' W/O HIGUERA STREET FROM EASTHAM DR TO JEFFERSON BLVD

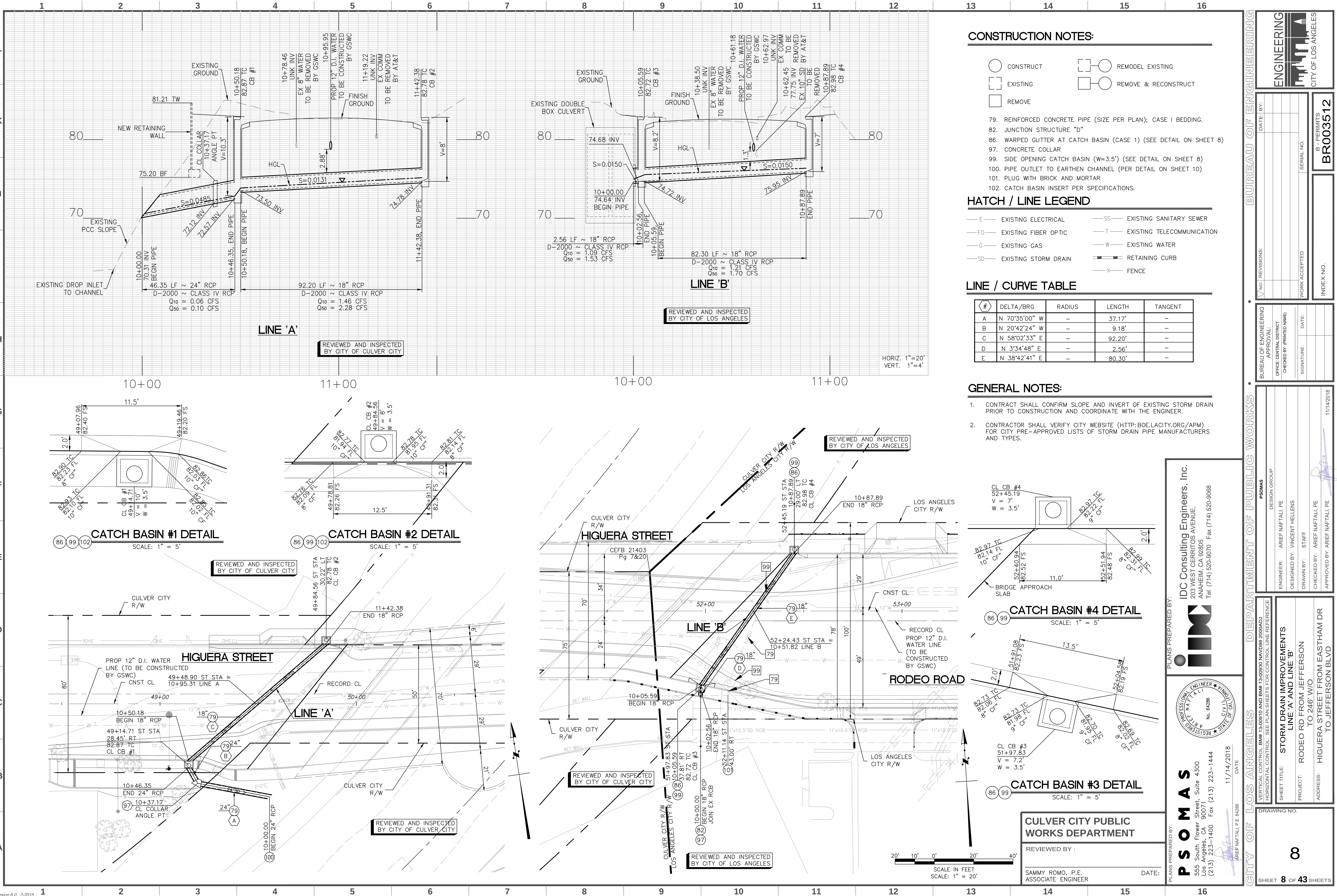
DRAWING NO. 7

SHEET 7 OF 43 SHEETS



THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES  
(DESIGN STAGE ONLY)



CONSTRUCTION NOTES:

- CONSTRUCT
- EXISTING
- REMOVE
- REMODEL EXISTING
- REMOVE & RECONSTRUCT

- 79. REINFORCED CONCRETE PIPE (SIZE PER PLAN); CASE 1 BEDDING.
- 82. JUNCTION STRUCTURE "D"
- 86. WARPED GUTTER AT CATCH BASIN (CASE 1) (SEE DETAIL ON SHEET 8)
- 97. CONCRETE COLLAR
- 99. SIDE OPENING CATCH BASIN (W=3.5') (SEE DETAIL ON SHEET 8)
- 100. PIPE OUTLET TO EARTHEN CHANNEL (PER DETAIL ON SHEET 10)
- 101. PLUG WITH BRICK AND MORTAR
- 102. CATCH BASIN INSERT PER SPECIFICATIONS.

HATCH / LINE LEGEND

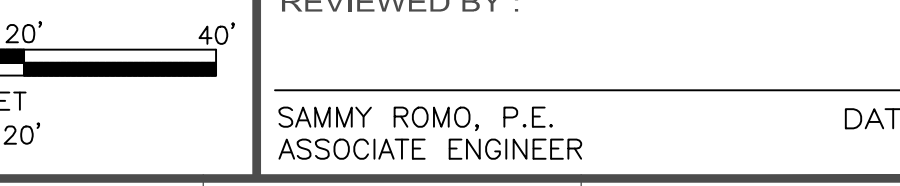
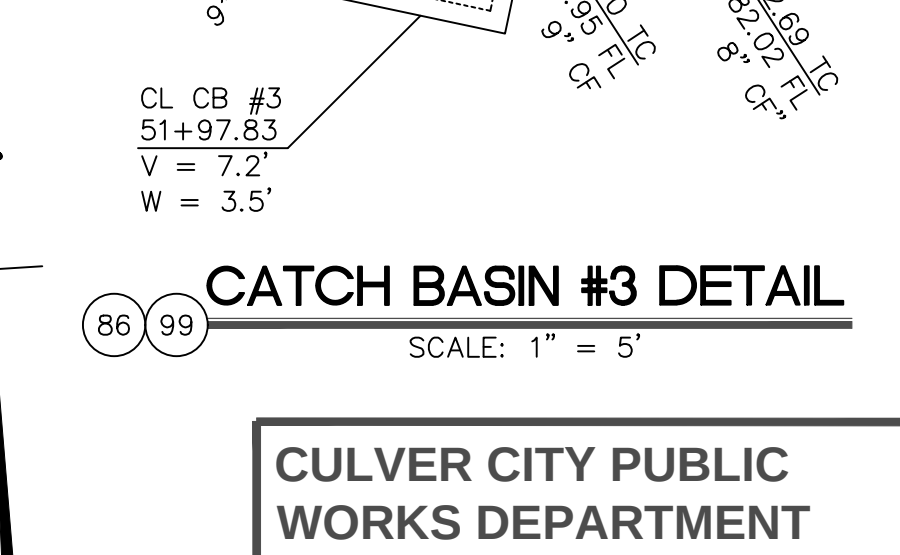
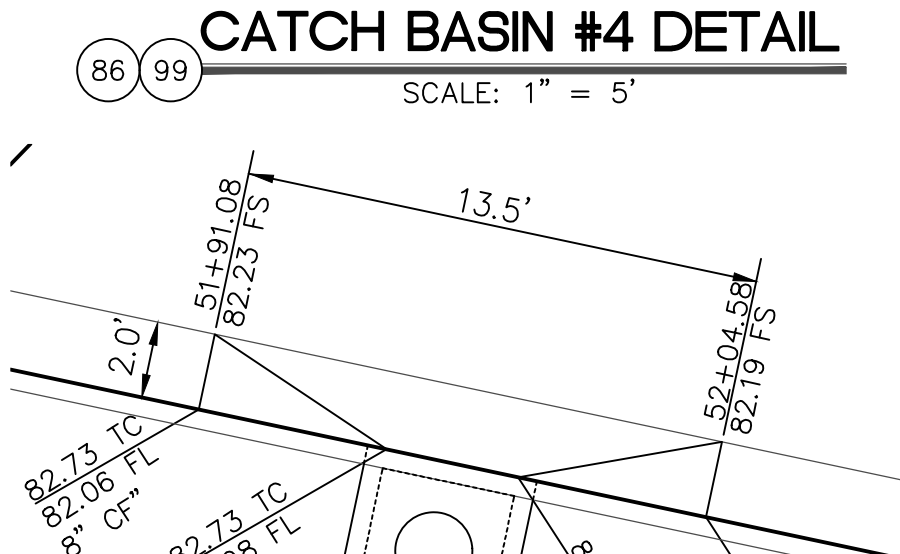
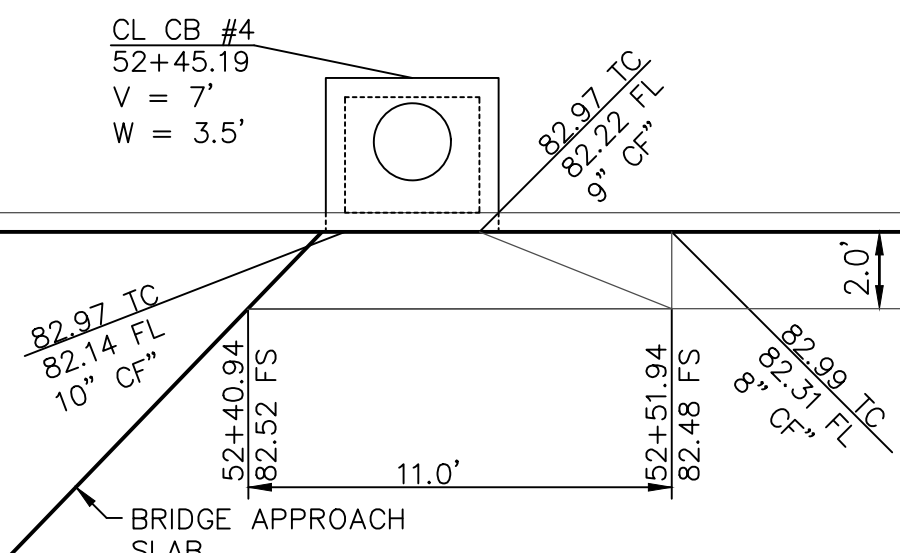
- E — EXISTING ELECTRICAL
- FO — EXISTING FIBER OPTIC
- G — EXISTING GAS
- SD — EXISTING STORM DRAIN
- SS — EXISTING SANITARY SEWER
- T — EXISTING TELECOMMUNICATION
- W — EXISTING WATER
- X — FENCE
- RETAINING CURB

LINE / CURVE TABLE

| # | DELTA/BRG     | RADIUS | LENGTH | TANGENT |
|---|---------------|--------|--------|---------|
| A | N 70°35'00" W | —      | 37.17' | —       |
| B | N 20°42'24" W | —      | 9.18'  | —       |
| C | N 58°02'33" E | —      | 92.20' | —       |
| D | N 3°34'48" E  | —      | 2.56'  | —       |
| E | N 38°42'41" E | —      | 80.30' | —       |

GENERAL NOTES:

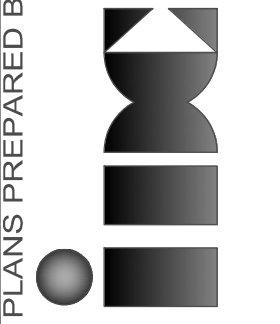
- 1. CONTRACTOR SHALL CONFIRM SLOPE AND INVERT OF EXISTING STORM DRAIN PRIOR TO CONSTRUCTION AND COORDINATE WITH THE ENGINEER.
- 2. CONTRACTOR SHALL VERIFY CITY WEBSITE ([HTTP://BOE.LACITY.ORG/APM](http://BOE.LACITY.ORG/APM)) FOR CITY PRE-APPROVED LISTS OF STORM DRAIN PIPE MANUFACTURERS AND TYPES.



CULVER CITY PUBLIC WORKS DEPARTMENT

REVIEWED BY :  
SAMMY ROMO, P.E.  
ASSOCIATE ENGINEER

PLANS PREPARED BY:  
**IDC Consulting Engineers, Inc.**  
203 WEST CERRITOS AVENUE  
ANAHEIM, CA 92805  
Tel (714) 520-9070 Fax (714) 520-9068



PLANS PREPARED BY:  
**PSOMAS**  
555 South Flower Street, Suite 4300  
Los Angeles, CA 90071  
(213) 223-1400 Fax (213) 223-1444

**BUREAU OF ENGINEERING**

DATE: BY:

NO. REVISIONS:

WORK ACCEPTED

SERIAL NO.

INDEX NO.

**ENGINEERING**

CITY OF LOS ANGELES

**BR003512**

BUREAU OF ENGINEERING

APPROVAL:

OFFICE: CENTRAL DISTRICT

CHECKED BY: (PRINTED NAME)

SIGNATURE:

DATE:

DESIGN GROUP

ENGINEER: ARIEF NATTALI, PE

DESIGNED BY: VINCENT HELLENS

DRAWN BY: STAFF

CHECKED BY: ARIEF NATTALI, PE

APPROVED BY: ARIEF NATTALI, PE

11/14/2018

**CITY OF LOS ANGELES**

PLANS PREPARED BY:

HORIZONTAL CONTROL: BM# 13-00910 AND BM# 13-00930 NAVPERS 2000ADJ

VERTICAL CONTROL: SEE PLAN SHEETS FOR CONTROL LINE REFERENCE

SHEET TITLE: STORM DRAIN IMPROVEMENTS

PROJECT: RODEO RD FROM JEFFERSON

ADDRESS: HIGUERA STREET FROM EASTHAM DR TO JEFFERSON BLVD

DRAWING NO.

**8**

SHEET 8 OF 43 SHEETS



CONSTRUCTION NOTES (B-PERMITS):

1.

THE B-PERMITTEE SHALL BE RESPONSIBLE FOR LABOR AND MATERIAL INVOLVED IN THE REMOVAL, MARKOUT, AND INSTALLATION OF ALL STRIPING, PAVEMENT MARKINGS, CURB MARKINGS, AND SIGNS SHOWN HEREON. REMOVAL OF MARKINGS SHALL BE PERFORMED BEFORE MARKOUT AND INSTALLATION OF NEW STRIPING, AND SHALL BE BY WET SANDBLASTING/GRINDING IN ACCORDANCE WITH LADOT SPECIFICATION NO. 76-016-10. MARKOUT SHALL BE BY HEAVY PAINT BRUSH MARKINGS OR SPRAY PAINT OVER A PULLED ROPE IN THE RESPECTIVE WHITE OR YELLOW COLORS OF THE PROPOSED STRIPING. STRIPING AND PAVEMENT MARKINGS SHALL BE IN HOT APPLIED ALKYD THERMOPLASTIC IN ACCORDANCE WITH LADOT SPECIFICATIONS NOS. 51-005-10 AND 76-012-15.
2.

THE INSTALLATION OF THERMOPLASTIC STRIPING MAY PROCEED ONLY AFTER INSPECTION AND APPROVAL OF MARKOUT BY LADOT. THE CONTRACTOR SHALL CORRECT ALL ERRORS IN MARKOUT REQUESTED BY LADOT. UPON APPROVAL OF MARKOUT, THE CONTRACTOR SHALL FULLY INSTALL THE THERMOPLASTIC STRIPING, PAVEMENT MARKINGS, (CURB MARKINGS, AND SIGNS - AS APPLICABLE) WITHIN THE FOLLOWING THREE (3) WORKING DAYS. THE CONTRACTOR SHALL CONTACT CITY WIDE INVESTIGATION OFFICE AT (213) 928-9612 AT THE FOLLOWING POINTS IN TIME AND FOR THE FOLLOWING PURPOSES:

A.

TEN (10) WORKING DAYS IN ADVANCE OF MARKOUT.

B.

UPON COMPLETION OF MARKOUT (INCLUDING ANY MARKOUT CORRECTIONS) FOR INSPECTION AND APPROVAL.

C.

UPON COMPLETION OF THERMOPLASTIC STRIPING (INCLUDING ANY THERMOPLASTIC STRIPING CORRECTIONS) FOR INSPECTION AND FINAL STRIPING APPROVAL.
3.

DURING ALL PHASES OF CONSTRUCTION, TEMPORARY RAISED OVERLAY PAVEMENT MARKERS SHALL BE MAINTAINED ADJACENT TO ANY TEMPORARY CENTERLINE, MARKOUT CENTERLINE, OR SCAR OF A SANDBLASTED CENTERLINE, AS APPLICABLE, AS PER LADOT STANDARD PLAN NO. S-453.0.
4.

THE FIELD CONDITIONS SHOWN AS EXISTING ON THIS PLAN MAY CHANGE BETWEEN THE PLAN APPROVAL DATE AND THE IMPLEMENTATION DATE. THE CONTRACTOR MAY BE REQUIRED TO INSTALL OR REMOVE STRIPING, PAVEMENT MARKINGS, SIGNS OR OTHER TRAFFIC CONTROL DEVICES BEYOND THOSE INDICATED ON THIS PLAN, IN ORDER TO FACILITATE THESE CHANGES IN FIELD CONDITIONS AND/OR TO BE IN COMPLIANCE WITH LADOT STANDARDS AND SPECIFICATIONS.
5.

IF THIS PLAN HAS NOT BEEN INSTALLED WITHIN TWO (2) YEARS OF THE APPROVAL DATE, IT SHALL BE RESUBMITTED TO LADOT PUBLIC IMPROVEMENTS SECTION FOR RE-APPROVAL PRIOR TO PROCEEDING TO CONSTRUCTION.
6.

INSTALL PEDESTRIAN BARRICADE PER S-454.2.

LEGEND

1.

EXISTING STRIPING & MARKINGS TO REMAIN

2.

EXISTING STRIPING & MARKINGS TO BE REMOVED

3.

PROPOSED STRIPING & MARKINGS

4.

EXISTING SIGNS

PROPOSED SIGNS

5.

SIGNALIZED INTERSECTION

6.

EXISTING RED CURB

7.

PROPOSED RED CURB

8.

PROPOSED TUFF CURB DELINEATORS WITH 40-IN BASE PER SPECIFICATIONS, INSTALL 15' O.C.

NOTES

1.

LENGTH OF DESIGN : 700'±

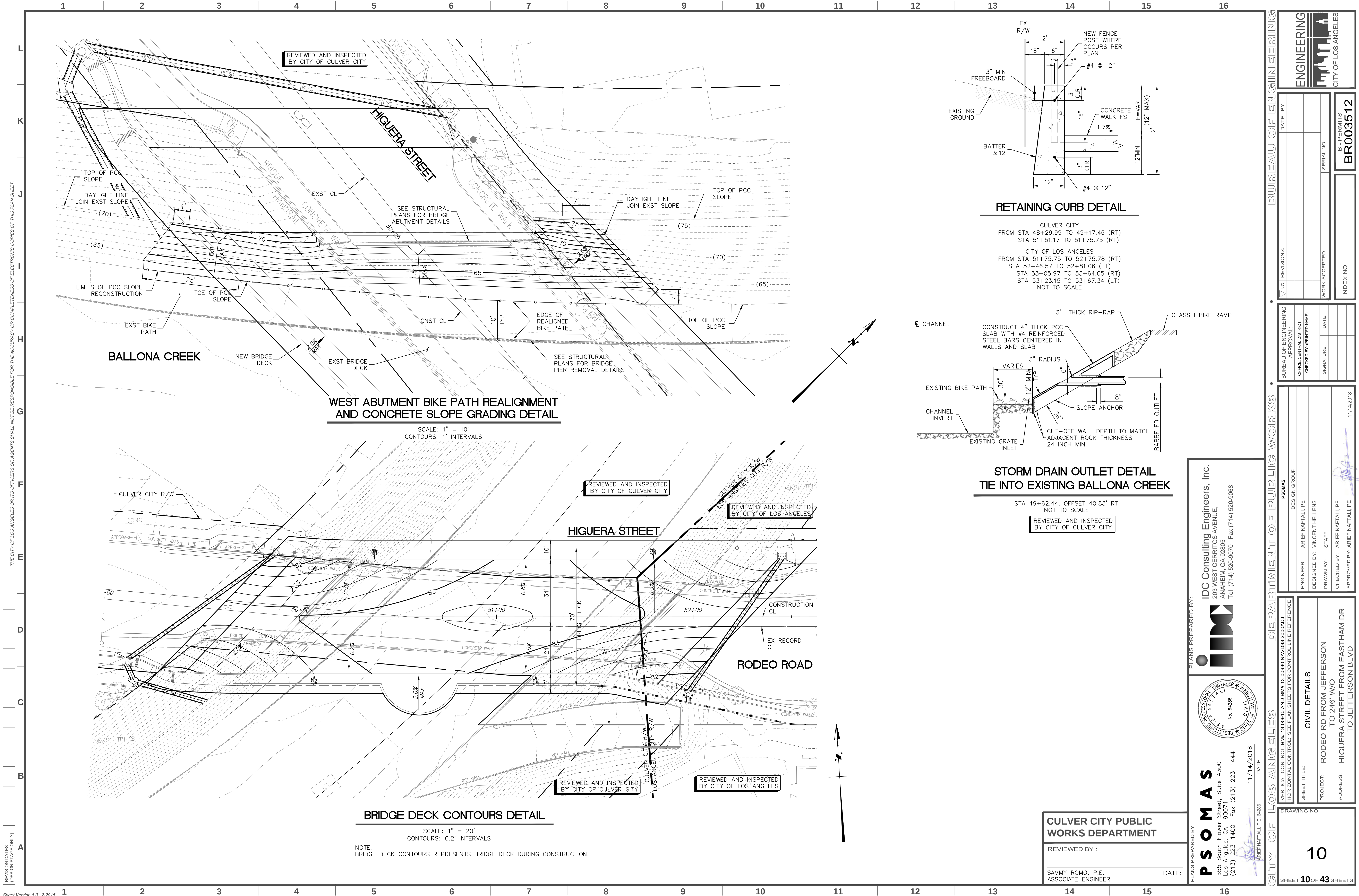
2.

6" x 4' WHITE STRIPE WITH 8' GAP (TYPICAL)

3.

PAINT REMOVAL REQUIRED.

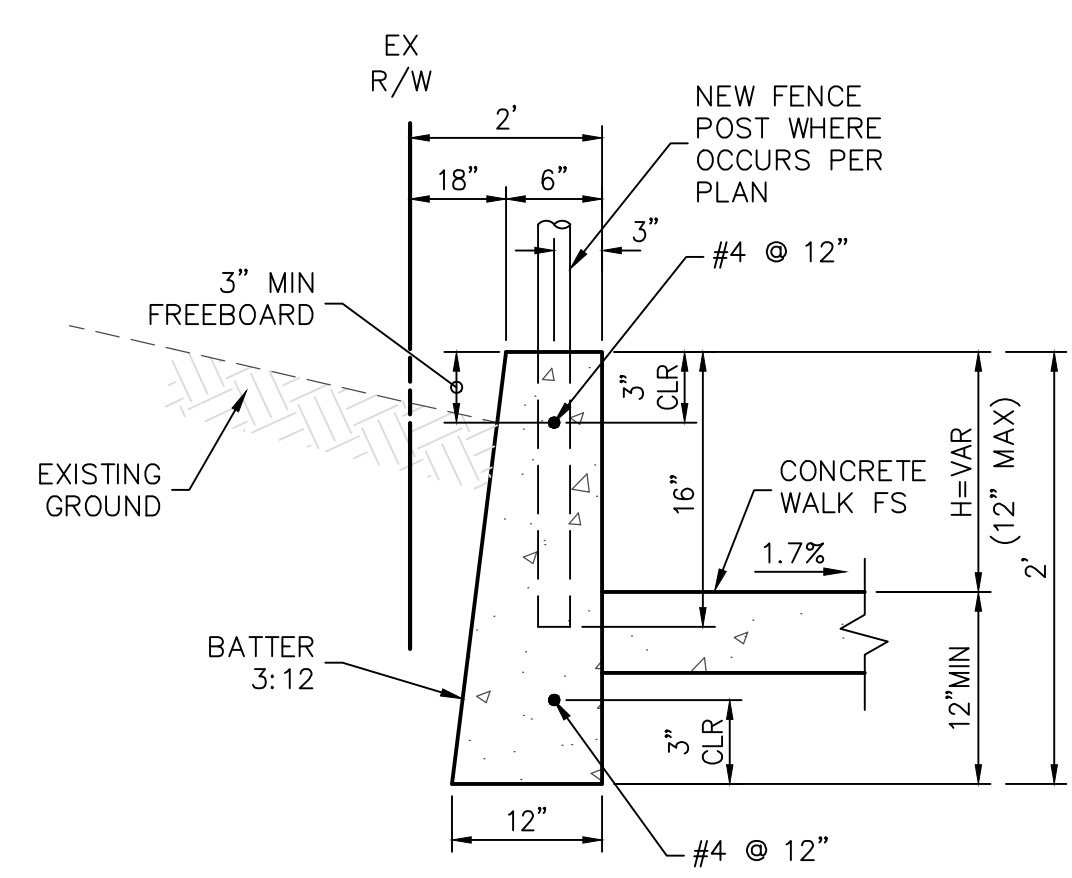




THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES  
(DESIGN STAGE ONLY)

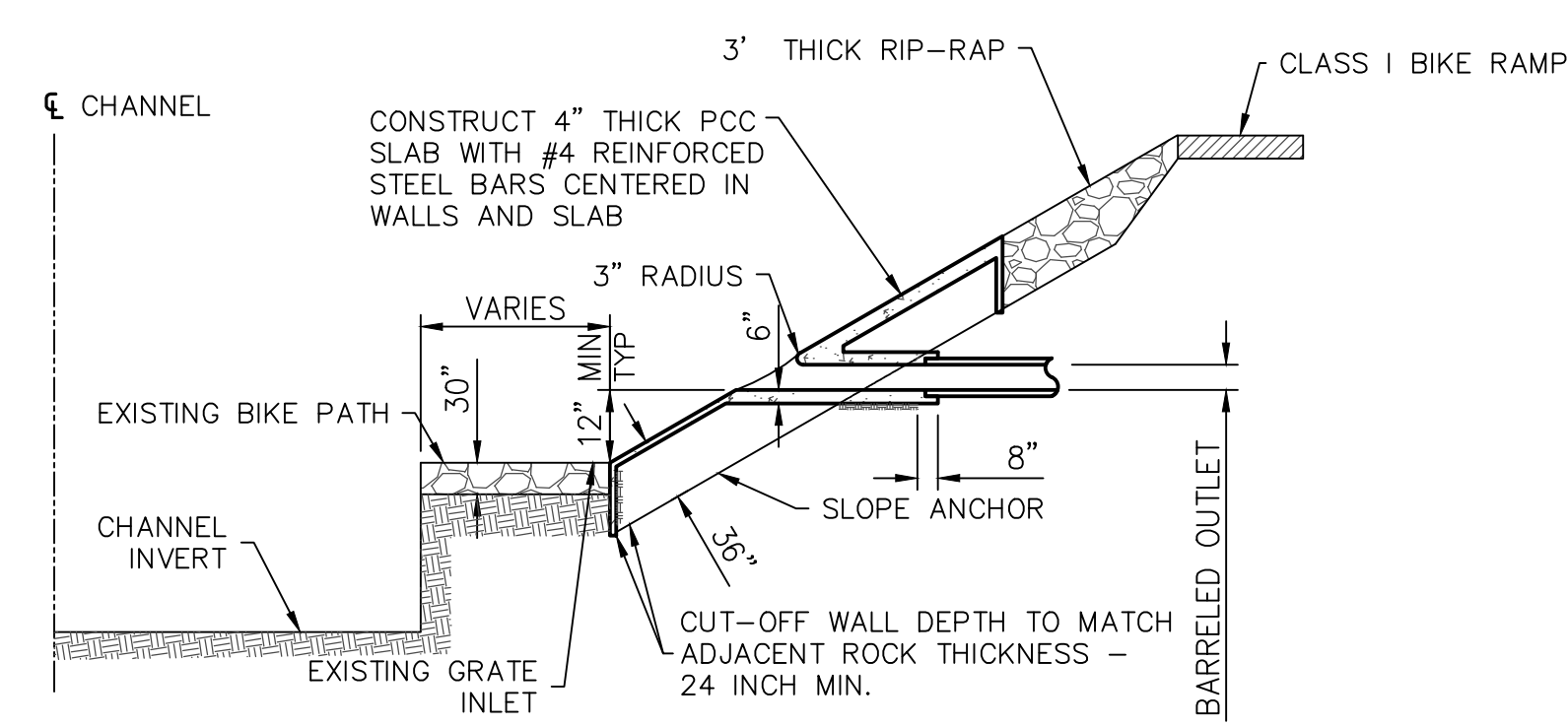
### RETAINING CURB DETAIL



CULVER CITY  
FROM STA 48+29.99 TO 49+17.46 (RT)  
STA 51+51.17 TO 51+75.75 (RT)

CITY OF LOS ANGELES  
FROM STA 51+75.75 TO 52+75.78 (RT)  
STA 52+46.57 TO 52+81.06 (LT)  
STA 53+05.97 TO 53+64.05 (RT)  
STA 53+23.15 TO 53+67.34 (LT)  
NOT TO SCALE

### STORM DRAIN OUTLET DETAIL TIE INTO EXISTING BALLONA CREEK



STA 49+62.44, OFFSET 40.83' RT  
NOT TO SCALE

REVIEWED AND INSPECTED  
BY CITY OF CULVER CITY

### WEST ABUTMENT BIKE PATH REALIGNMENT AND CONCRETE SLOPE GRADING DETAIL

SCALE: 1" = 10'  
CONTOURS: 1' INTERVALS

### BRIDGE DECK CONTOURS DETAIL

SCALE: 1" = 20'  
CONTOURS: 0.2' INTERVALS

NOTE:  
BRIDGE DECK CONTOURS REPRESENTS BRIDGE DECK DURING CONSTRUCTION.

ENGINEERING

CITY OF LOS ANGELES

DATE: BY:

NO. REVISIONS:

WORK ACCEPTED

SERIAL NO.

B - PERMITS

BR003512

INDEX NO.

BUREAU OF ENGINEERING

APPROVAL:

OFFICE: CENTRAL DISTRICT

CHECKED BY: (PRINTED NAME)

SIGNATURE:

DATE:

DESIGN GROUP

ENGINEER:

DESIGNED BY:

DRAWN BY:

CHECKED BY:

APPROVED BY:

PSOMAS

203 WEST CERRITOS AVENUE

ANAHEIM, CA 92805

Tel (714) 520-9070 Fax (714) 520-9068

11/14/2018

AREF NAFTALI, P.E. 64286

CITY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

PLANS PREPARED BY:

INDC Consulting Engineers, Inc.

203 WEST CERRITOS AVENUE

ANAHEIM, CA 92805

Tel (714) 520-9070 Fax (714) 520-9068

11/14/2018

AREF NAFTALI, P.E. 64286

CULVER CITY PUBLIC WORKS DEPARTMENT

REVIEWED BY:

SAMMY ROMO, P.E.

ASSOCIATE ENGINEER

DATE:

REVISION DATES

(DESIGN STAGE ONLY)

PROJECT:

RODEO RD FROM JEFFERSON

TO 246' W/O

ADDRESS:

HIGUERA STREET FROM EASTHAM DR

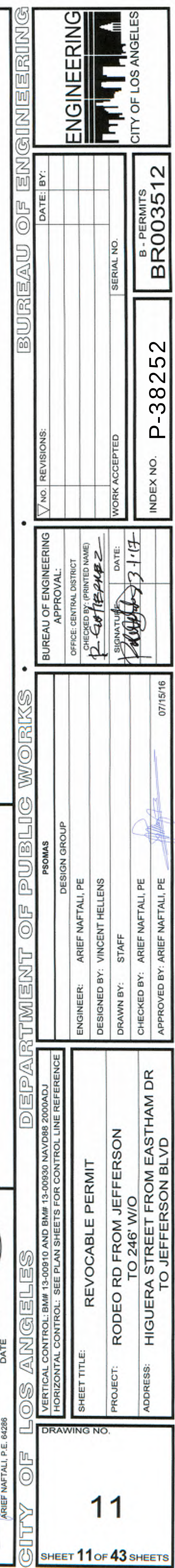
TO JEFFERSON BLVD

DRAWING NO.

10

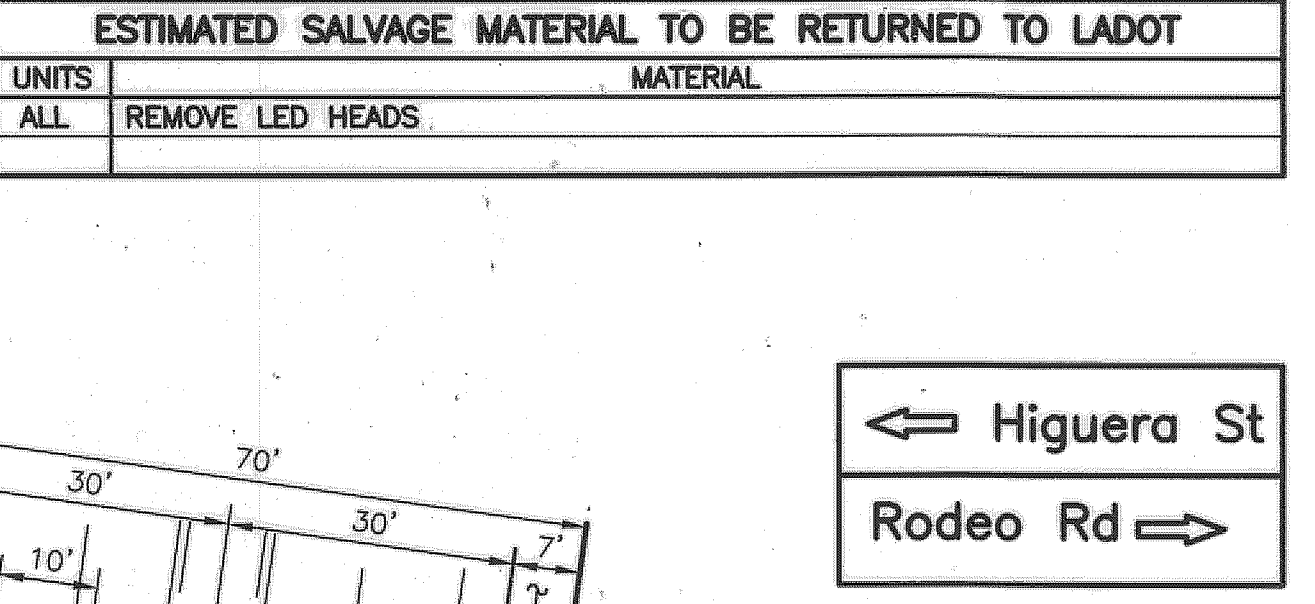
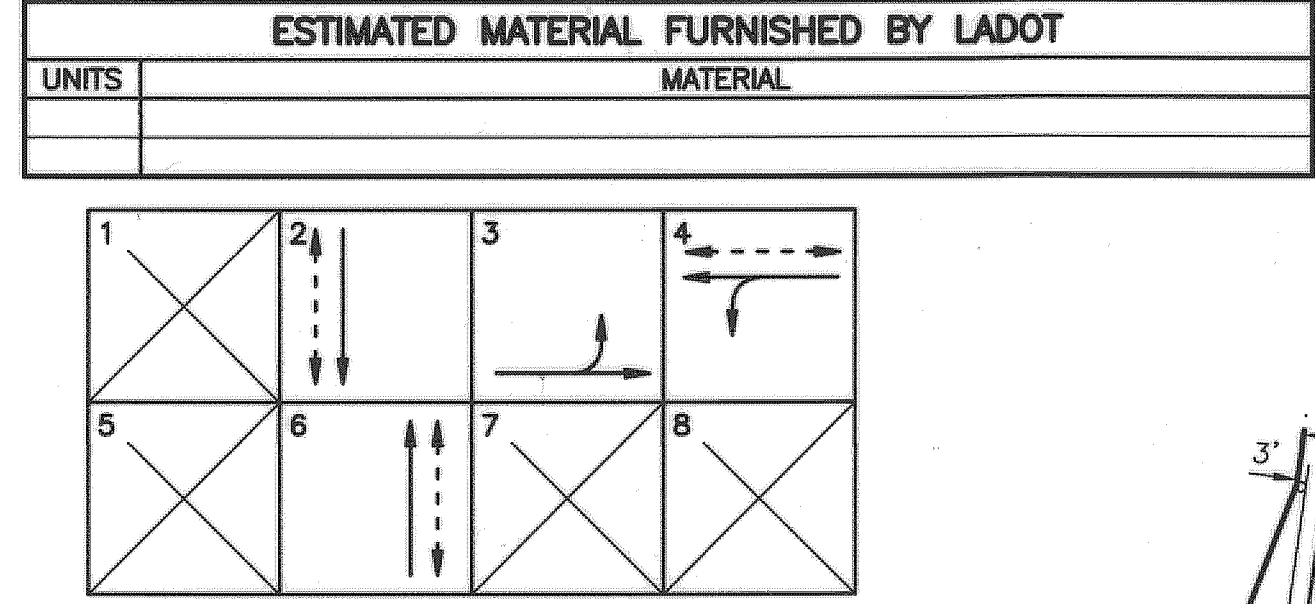
SHEET 10 OF 43 SHEETS





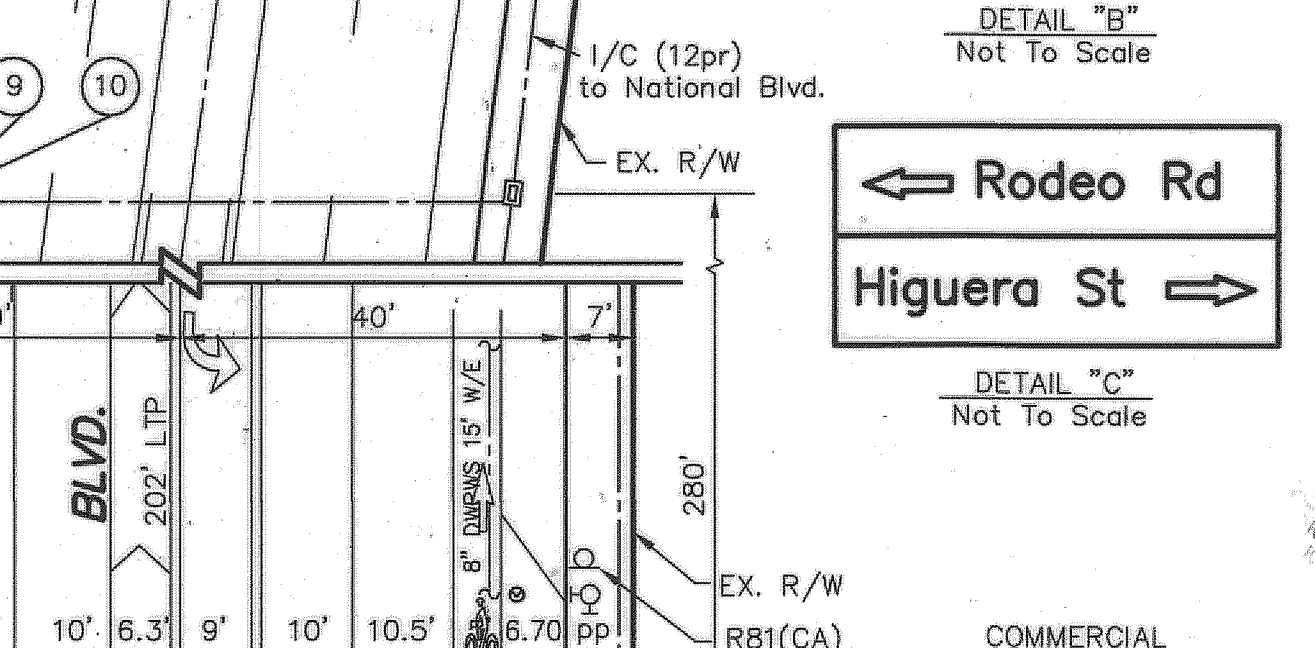
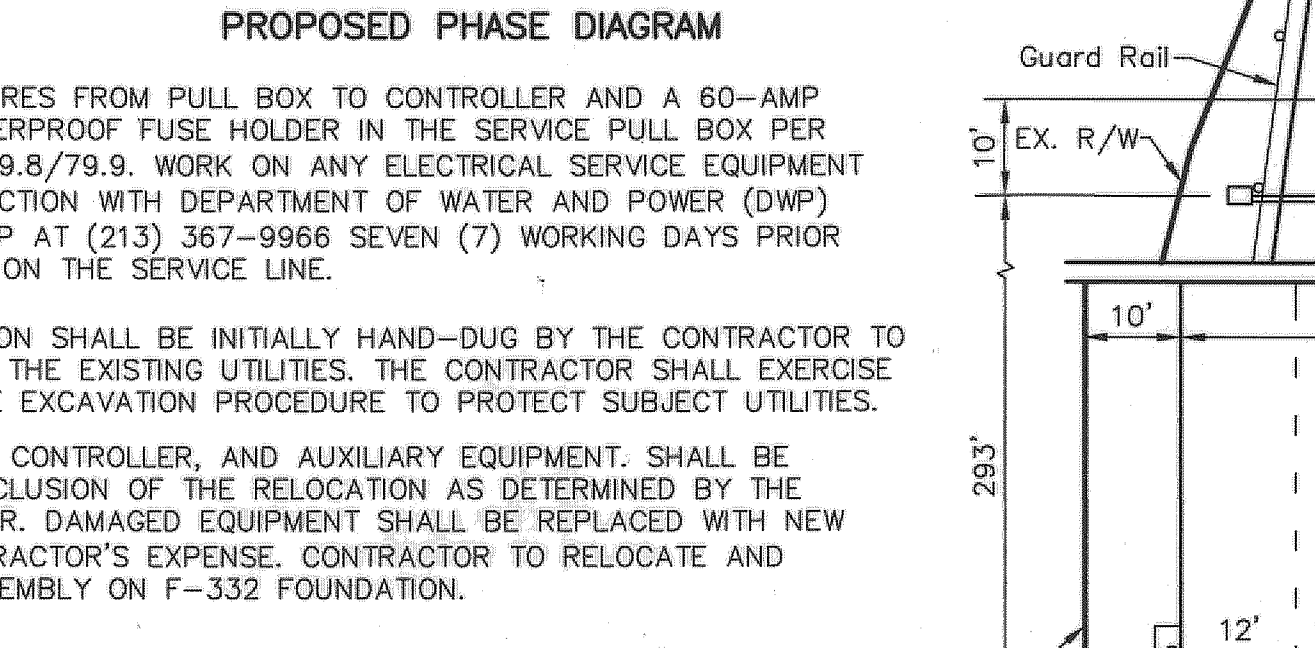


SIGNAL STANDARD SCHEDULE table with columns: No., TYPE, FOUND. TYPE, PED. PUSH BUTN, PHASE, REMARKS. Includes items 1 through 9 with details on cable types, foundations, and phases.

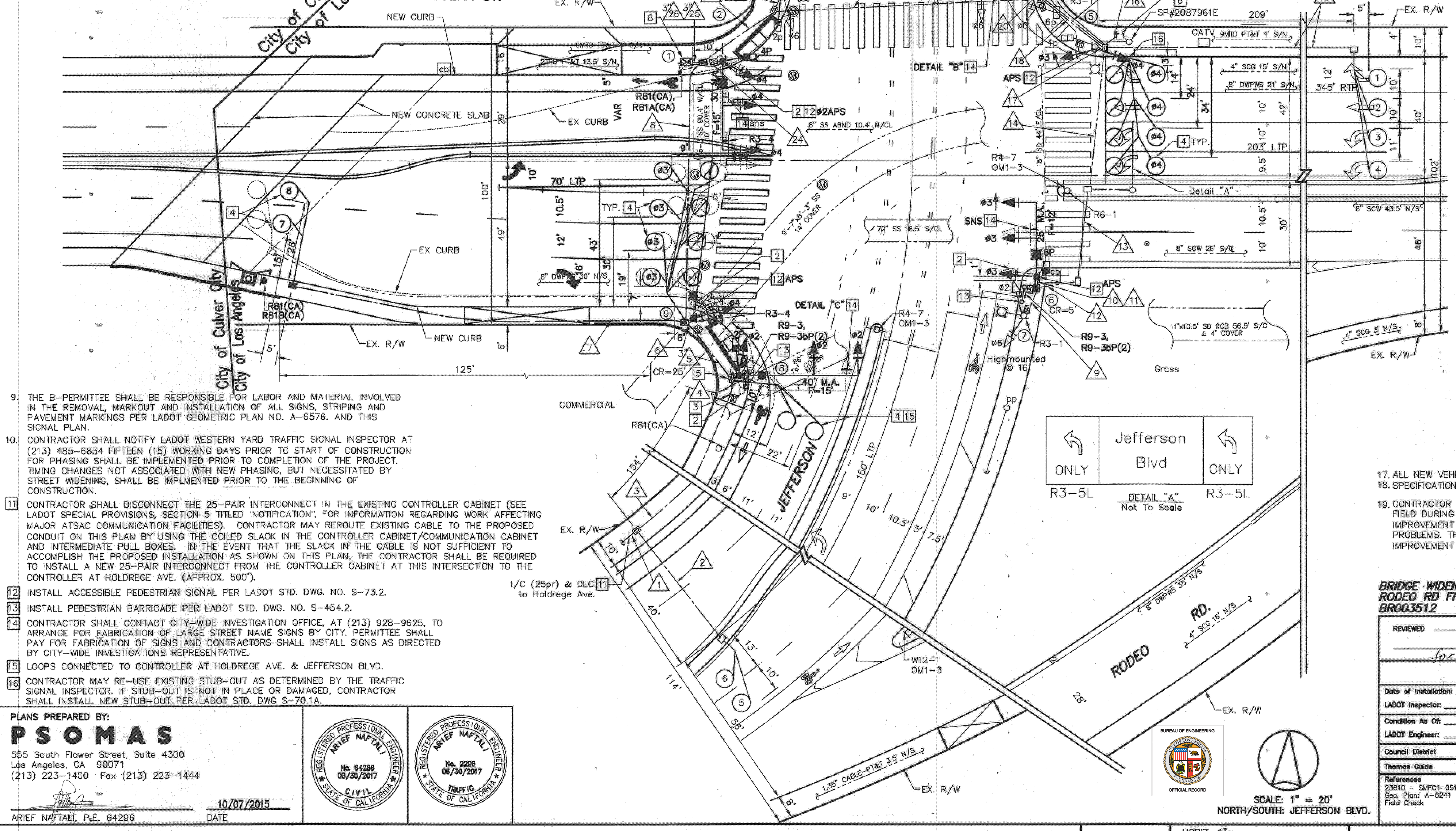


CONDUCTOR SCHEDULE table with columns: SIZE No., CABLE / WIRE, RUN. Includes details for conductor cables, service cables, and fiber optic cables.

NOTES: 1. SEMI-ACTUATED OPERATION (ATSAC 2070 CONTROLLER) ... 2. REMOVE TRAFFIC SIGNAL EQUIPMENT, FOUNDATION, PULL BOX, ABANDON CONDUITS. ... 3. INTERCEPT EXISTING CONDUIT, JOIN AND EXTEND INTO PULL BOX. ... 4. INSTALL DETECTOR LOOP(S) PER LADOT STD. DWG. NO. S-70.1A & S-70.1D (CASE II) ... 5. CONTRACTOR MAY RE-USE THE EXISTING DLC IN THE PULL BOX AS DETERMINED BY THE TRAFFIC SIGNAL INSPECTOR. IF DLC CABLE IS DAMAGED, NEW DLC CABLE SHALL BE INSTALLED FROM THE PULL BOX TO THE CONTROLLER



\* FOR EXISTING CONDUIT RUNS DESIGNATED WITH AN \*\* (ABOVE), THE CONTRACTOR SHALL ADD/INSTALL NEW CONDUCTORS/CABLES AND PROTECT AND MAINTAIN ALL EXISTING CONDUCTORS/CABLES.



NOTICE TO CONTRACTOR. 1. EXCEPT WHERE OTHERWISE INDICATED, MATERIALS AND INSTALLATION METHODS SHALL CONFORM TO THE LATEST EDITION AND SUPPLEMENT OF THE STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION ("GREENBOOK") AND THE CORRESPONDING ADDITIONS AND AMENDMENTS THAT ARE LISTED IN THE "BROWN BOOK" AS APPROVED BY THE CITY OF LOS ANGELES' BOARD OF PUBLIC WORKS, AND THE LATEST EDITION, WITH AMENDMENTS OF THE SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS ISSUED BY THE CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION (LADOT).

9. THE B-PERMITTEE SHALL BE RESPONSIBLE FOR LABOR AND MATERIAL INVOLVED IN THE REMOVAL, MARKOUT AND INSTALLATION OF ALL SIGNS, STRIPING AND PAVEMENT MARKINGS PER LADOT GEOMETRIC PLAN NO. A-6576. AND THIS SIGNAL PLAN. 10. CONTRACTOR SHALL NOTIFY LADOT WESTERN YARD TRAFFIC SIGNAL INSPECTOR AT (213) 485-6834 FIFTEEN (15) WORKING DAYS PRIOR TO START OF CONSTRUCTION FOR PHASING SHALL BE IMPLEMENTED PRIOR TO COMPLETION OF THE PROJECT. TIMING CHANGES NOT ASSOCIATED WITH NEW PHASING, BUT NECESSITATED BY STREET WIDENING, SHALL BE IMPLEMENTED PRIOR TO THE BEGINNING OF CONSTRUCTION. 11. CONTRACTOR SHALL DISCONNECT THE 25-PAIR INTERCONNECT IN THE EXISTING CONTROLLER CABINET (SEE LADOT SPECIAL PROVISIONS, SECTION 5 TITLED "NOTIFICATION", FOR INFORMATION REGARDING WORK AFFECTING MAJOR ATSAC COMMUNICATION FACILITIES). CONTRACTOR MAY REROUTE EXISTING CABLE TO THE PROPOSED CONDUIT ON THIS PLAN BY USING THE COILED SLACK IN THE CONTROLLER CABINET/COMMUNICATION CABINET AND INTERMEDIATE PULL BOXES. IN THE EVENT THAT THE SLACK IN THE CABLE IS NOT SUFFICIENT TO ACCOMPLISH THE PROPOSED INSTALLATION AS SHOWN ON THIS PLAN, THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A NEW 25-PAIR INTERCONNECT FROM THE CONTROLLER CABINET AT THIS INTERSECTION TO THE CONTROLLER AT HOLDREGE AVE. (APPROX. 500'). 12. INSTALL ACCESSIBLE PEDESTRIAN SIGNAL PER LADOT STD. DWG. NO. S-73.2. 13. INSTALL PEDESTRIAN BARRICADE PER LADOT STD. DWG. NO. S-454.2. 14. CONTRACTOR SHALL CONTACT CITY-WIDE INVESTIGATION OFFICE, AT (213) 928-9625, TO ARRANGE FOR FABRICATION OF LARGE STREET NAME SIGNS BY CITY. PERMITTEE SHALL PAY FOR FABRICATION OF SIGNS AND CONTRACTORS SHALL INSTALL SIGNS AS DIRECTED BY CITY-WIDE INVESTIGATIONS REPRESENTATIVE. 15. LOOPS CONNECTED TO CONTROLLER AT HOLDREGE AVE. & JEFFERSON BLVD. 16. CONTRACTOR MAY RE-USE EXISTING STUB-OUT AS DETERMINED BY THE TRAFFIC SIGNAL INSPECTOR. IF STUB-OUT IS NOT IN PLACE OR DAMAGED, CONTRACTOR SHALL INSTALL NEW STUB-OUT PER LADOT STD. DWG S-70.1A.

PLANS PREPARED BY: PSOMAS 555 South Flower Street, Suite 4300 Los Angeles, CA 90071 (213) 223-1400 Fax (213) 223-1444 10/07/2015 DATE

REGISTERED PROFESSIONAL ENGINEER ARIEF NAFATLI No. 64288 06/30/2017 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER ARIEF NAFATLI No. 2296 06/30/2017 CIVIL STATE OF CALIFORNIA

17. ALL NEW VEHICLE AND PEDESTRIAN TRAFFIC SIGNALS SHALL BE LED MODULE, PER LADOT SPECIFICATION 92-088-07 (LATEST EDITION). 19. CONTRACTOR SHALL CONTACT THE TRAFFIC CONSULTANT FOR ANY PROBLEMS ENCOUNTERED IN THE FIELD DURING CONSTRUCTION. THE TRAFFIC CONSULTANT SHALL CONTACT THE LADOT PUBLIC IMPROVEMENT SECTION AT (213) 928-9684 FOR RESOLUTION OF SIGNAL RELATED CONSTRUCTION PROBLEMS. THIS PLAN ASSUMES COMPLETION OF JEFFERSON BLVD. & RODEO RD. INTERSECTION IMPROVEMENT (PROJECT #TGF11034).

BRIDGE WIDENING PROJECT RESTORATION PLAN RODEO RD FROM JEFFERSON TO 240' W/O BR003512

Form with fields for REVIEWED, ACCEPTED, DATE, and SIGNATURE. Includes fields for LADOT Inspector, Condition As Of, LADOT Engineer, Council District, and Title. Also includes fields for File Name, Intersection No., and Proj. No.



THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

NOTICE TO CONTRACTORS  
GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF PUBLIC WORKS OF THE CITY OF LOS ANGELES ADOPTED EDITION AND SUPPLEMENTS TO THE "GREENBOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AS MODIFIED BY THE CORRESPONDING ISSUE OF THE BROWN BOOK, THE LATEST EDITION OF THE BUREAU OF STREET LIGHTING "SPECIAL SPECIFICATIONS", AND THE SPECIAL PROVISIONS.
- ELECTROLIER(S) SHALL BE INSTALLED WITH CENTERLINE 30" BEHIND THE CURB FACE, AND WITH LUMINAIRE ARM ORIENTED OVER THE STREET AND PERPENDICULAR TO ITS CENTER LINE, EXCEPT AS OTHERWISE SPECIFIED HEREON.
- ELECTROLIER(S) SPECIFIED TO BE LOCATED INSIDE OF THE CURB RETURN SHALL BE INSTALLED WITH THE CENTER OF THE ELECTROLIER 30 INCHES BEHIND THE CURB FACE MEASURED RADIALLY, AND WITH THE LUMINAIRE ARM ORIENTED OVER THE STREET AND PERPENDICULAR TO THE STREET CENTERLINE.
- ELECTROLIER(S) SHALL BE ERECTED SO THAT THE BASE DOOR IS PERPENDICULAR TO THE CURB AND LOCATED ON THE SIDE OF THE ELECTROLIER AWAY FROM ONCOMING TRAFFIC.
- ALL EXISTING ELECTROLIER(S) SPECIFIED TO BE REMOVED OR MODIFIED ON THIS PLAN SHALL BE MAINTAINED IN SERVICE UNTIL THE NEW ELECTROLIER LIGHTING SYSTEM IS PLACED IN SERVICE. UNLESS OTHERWISE SPECIFIED HEREON, ALL OTHER ELECTROLIER(S) ON CIRCUITS AFFECTED BY THIS PLAN SHALL BE MAINTAINED IN SERVICE. CONTRACTOR MAY PROVIDE ALTERNATE LIGHTING IN LIEU OF MAINTAINING EXISTING ELECTROLIER LIGHTS IN SERVICE PROVIDED THAT SUCH ARRANGEMENTS ARE APPROVED BY THE ENGINEER.
- ALL EQUIPMENT REQUIRED HEREON FOR FURNISHING ELECTRICAL SERVICE FOR EACH CIRCUIT SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY OTHER CONSTRUCTION ON THAT CIRCUIT UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL GIVE WRITTEN NOTICE, 72 HOURS IN ADVANCE OF THE REMOVAL OF AN ELECTROLIER, TO ANY PUBLIC AGENCY MAINTAINING EQUIPMENT SUPPORTED BY THAT ELECTROLIER.
- FOUNDATIONS AND PULLBOXES NOT REMAINING IN SERVICE SHALL BE REMOVED. THE RESULTING EXCAVATION SHALL BE FILLED WITH MATERIAL SIMILAR TO ADJACENT MATERIAL AND SATISFACTORILY COMPACTED WITH A MECHANICAL COMPACTOR IN LAYERS NOT EXCEEDING 12 INCHES. THE SURFACE SHALL BE FINISHED TO MATCH THE ADJACENT SURFACE.
- THE CONTRACTOR SHALL REQUEST A BURN TEST BY NOTIFYING THE BUREAU OF CONTRACT ADMINISTRATION PROJECT INSPECTOR A MINIMUM OF 7 CALENDAR DAYS IN ADVANCE OF THE DATE ON WHICH A BURN TEST IS DESIRED.
- CONTRACTOR SHALL GIVE WRITTEN WORKING DAYS NOTICE (PHONE 323-913-4743) PRIOR TO DELIVERY OF ANY EQUIPMENT SPECIFIED TO BE DELIVERED TO THE BUREAU OF STREET LIGHTING YARD AT 4550 SANTA MONICA BLVD. SUCH DELIVERIES SHALL BE BETWEEN 8:30 AM AND 3:00 PM AND SHALL INCLUDE ALL HANDLING AND LOADING FROM THE TRUCK BY THE CONTRACTOR. CONTRACTOR MUST SUPPLY A COPY OF THE STREET LIGHTING SHEETS WITH THE DELIVERY OF MATERIAL.
- PULLBOXES LOCATED ADJACENT TO DRIVEWAYS AND ALLEYS SHALL BE INSTALLED AT A MINIMUM DISTANCE OF FIVE FEET FROM THE TOP OF THE "X" OF A CASE 1 OR CASE 2 DRIVEWAY OR AT A MINIMUM DISTANCE OF TWO FEET FROM THE B.C. OF A CASE 3 OR CASE 4 DRIVEWAY OR FIVE FEET FROM TRAVELLED WAY OF THE ALLEY.
- PULLBOXES INSTALLED AT INTERSECTIONS OF LOCAL STREET SHALL BE INSTALLED NO CLOSER TO THE INTERSECTIONS THAN THE B.C.R. OF AN ASSUMED FUTURE 25' RADIUS CURB RETURN UNLESS OTHERWISE APPROVED BY THE ENGINEER. PULLBOXES INSTALLED AT INTERSECTIONS WHICH INVOLVE ONE OR MORE MAJOR OR SECONDARY STREETS SHALL BE INSTALLED NO CLOSER TO INTERSECTIONS THAN THE B.C.R. OF AN ASSUMED FUTURE 35' RADIUS CURB RETURN UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- CONDUIT SHALL BE INSTALLED AROUND ALL EXISTING AND/OR PROPOSED CATCH BASINS PER BUREAU OF STREET LIGHTING STANDARD DRAWING NO. L-304-0 UNLESS OTHERWISE SPECIFIED.
- ALL SCREWS PROVIDED FOR ELECTROLIER STANDARD BASE DOORS AND BASE COVERS SHALL BE CADMIUM PLATED STEEL, 1/4"-20NC MACHINE SCREWS, WITH PHILLIPS RECESSED ROUND HEADS.
- UNLESS OTHERWISE SPECIFIED HEREON, LUMINAIRES SHALL PROVIDE A MEDIUM, CUTOFF, TYPE III, LIGHTING DISTRIBUTION PATTERN CONFORMING TO I.E.S DESIGNATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING THE CONDITION OF ALL EXISTING EQUIPMENT TO BE REUSED, MODIFIED OR RETURNED TO THE BUREAU OF STREET LIGHTING YARD.
- EQUIPMENT INDICATED "DISPOSE" SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF BY THE CONTRACTOR.
- STREET LIGHTING CONDUIT SHALL BE INSTALLED BY JACKING OR DRILLING METHODS. INSTALLATION OF CONDUIT BY OPEN TRENCHING IS NOT PERMITTED UNLESS APPROVED BY THE DIRECTOR, BUREAU OF STREET LIGHTING.
- CONTRACTOR SHALL REPAIR AT HIS COST, THE DAMAGE CAUSED TO EXISTING SPRINKLER SYSTEMS DURING THE CONSTRUCTION OF THIS PROJECT. REPAIRS SHALL BE MADE WITHIN 5 WORKING DAYS AFTER DAMAGE OCCURS.
- ALL ELECTROLIER(S) SPECIFIED HEREON SHALL INCLUDE A TYPE 2 PULLBOX, TO BE SUPPLIED AND INSTALLED, UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL BE RESPONSIBLE TO ALL EXISTING ELECTROLIER(S) SPECIFIED TO BE RELOCATED AND MODIFIED ON THIS PLAN. PRIOR TO REINSTALLATION, CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING STREET LIGHTING FACILITIES FOUND TO BE DAMAGED PRIOR TO START OF OR DURING THE CONSTRUCTION OF THIS PROJECT AT NO COST TO THE CITY.

SUPPLEMENTAL NOTES

- CONTRACTOR SHALL LOCATE & PROTECT SUBSTRUCTURE(S) SHOWN HEREON, & SHALL PROVIDE FOR A MINIMUM 12" HORIZONTAL CLEARANCE BETWEEN FOUNDATION & SUBSTRUCTURES. IN THE EVENT A 12" CLEARANCE CANNOT BE ACHIEVED, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR RELOCATION OF SUBSTRUCTURES AT NO COST TO THE CITY.
- IN THE EVENT OF OVERHEAD LINES CONFLICT WITH ELECTROLIER(S) THE CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS WITH THE DEPT. OF WATER AND POWER TO RAISE THEIR OVERHEAD FACILITIES IN ORDER TO PROVIDE FOR THE FOLLOWING CLEARANCES WITH EXISTING AND/OR PROPOSED ELECTROLIER(S).  
LOW VOLTAGE: MINIMUM 3' CLEARANCE BETWEEN OVERHEAD LINES AND ELECTROLIER(S)  
HIGH VOLTAGE: MINIMUM 6' CLEARANCE BETWEEN OVERHEAD LINES AND ELECTROLIER(S)
- STREET TREES SHALL NOT BE PLANTED CLOSER THAN 20' FROM EXISTING OR PROPOSED ELECTROLIER, UNLESS OTHERWISE INDICATED.
- IN THE EVENT OF OVERHEAD COMMUNICATION LINE CONFLICT WITH ELECTROLIER(S), CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS TO PROVIDE A MINIMUM 12" CLEARANCE.
- PROPOSED ELECTROLIER FOUNDATIONS AND PULLBOXES SHALL BE INSTALLED OUTSIDE OF ACCESS RAMP AREAS. EXISTING FOUNDATIONS AND PULLBOXES SHALL BE RECONSTRUCTED TO CLEAR ACCESS RAMPS BY A MINIMUM OF 12". EXISTING CONDUIT SHALL BE LOWERED AS NECESSARY PER SEC. 307-2.5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- CONDUIT THAT IS TO BE ABANDONED SHALL HAVE WIRES REMOVED. THE CONDUIT SHALL BE REMOVED TO A DEPTH OF AT LEAST 12" BELOW THE SURFACE AND HAVE BOTH ENDS CRIMPED.
- NOTWITHSTANDING SECTION 16950.2 OF THE SPECIAL SPECIFICATIONS FOR THE CONSTRUCTION STREET LIGHTING SYSTEMS MAGNETIC REGULATING BALLASTS ARE REQUIRED IN ALL COBRA-HEAD LUMINAIRES.
- ALL #10 AWG WIRES USED FOR MULTIPLE CIRCUIT ELECTROLIER WIRING REFERENCED IN STANDARD DRAWING NO. L-301-1 SHALL BE #10 AWG SOLID COPPER CONDUCTORS.
- AT LEAST TWO (2) WORKING DAYS PRIOR TO STARTING ANY EXCAVATION, THE CONTRACTOR MUST OBTAIN AN INQUIRY I.D. NUMBER FROM UNDERGROUND SERVICE ALERT BY CALLING (800) 422-4133 OR BY DIALING 811.

SERIES CIRCUIT NOTES

- WARNING: SAFETY CLEARANCE SHALL BE OBTAINED DAILY FROM THE SERVING COMPANY, AND "MEN AT WORK" SIGNS SHALL BE POSTED AT THE SERVICE POINT BEFORE ANY WORK IS DONE OR ANY CONNECTIONS MADE ON AN EXISTING CIRCUIT. SEE SECTIONS 16430 AND 2100 OF SPECIAL SPECIFICATIONS.
- SERIES CIRCUIT WIRE SHALL BE NO. 8 AWG SOLID COPPER CONDUCTOR, INSULATED WITH 0.110" APPROVED POLYETHYLENE COMPOUND RATED FOR 5,000 VOLT OPERATION.
- TWO OR MORE TURNS OF SELF-ADHESIVE COLORED TAPE WITH A MINIMUM WIDTH OF 1/2 INCH SHALL BE APPLIED TO EACH CABLE IN ALL SERIES CIRCUITS WHERE WORK IS BEING DONE AND WHERE TWO OR MORE CIRCUITS EXIST IN A COMMON PULLBOX OR POST BASE. THE TAPE SHALL BE APPLIED ON THE CABLE BETWEEN THE SPLICES AND THE CONDUIT, USING ONE COLOR FOR EACH CIRCUIT. THE COLORS WHITE, GRAY, GREEN, AND ORANGE SHALL NOT BE USED.
- CONTRACTOR SHALL GIVE THE BUREAU OF STREET LIGHTING YARD (PHONE 323-913-4743) TWO WORKING DAYS NOTICE BEFORE ANY WORK IS DONE ON AN EXISTING SERIES CIRCUIT.

CIRCUIT DIAGRAM LEGEND

- |       |                               |   |                      |
|-------|-------------------------------|---|----------------------|
| —     | NEW WIRE                      | ○ | NEW LAMP             |
| —X—X— | EXISTING WIRE                 | □ | EXISTING LAMP        |
| —X—X— | DISCONNECT AND REMOVE WIRE    |   |                      |
| —○—   | CONNECT WIRE                  |   |                      |
| —○—○— | DISCONNECT WIRE AND TAPE ENDS | ⊗ | REMOVE EXISTING LAMP |

MULTIPLE CIRCUIT NOTES

- WARNING: SAFETY CLEARANCE SHALL BE OBTAINED DAILY FROM THE SERVING COMPANY BEFORE DOING ANY WORK OR MAKING ANY CONNECTIONS ON AN EXISTING CIRCUIT. SEE SECTIONS 16430 AND 2100 OF SPECIAL SPECIFICATIONS.
- MULTIPLE CIRCUIT WIRE SHALL BE NO. 8 AWG STRANDED COPPER CONDUCTOR. TYPE THWN/THHN INSULATION, UL APPROVED FOR 600 VOLT OPERATION UNLESS OTHERWISE SPECIFIED HEREON.
- THREE WIRES (COLOR CODE: 1-RED, 1-BLACK, 1-WHITE,) SHALL BE INSTALLED IN ALL MULTIPLE CIRCUIT CONDUIT UNLESS OTHERWISE PROVIDED FOR HEREON.
- EVEN NUMBERED ELECTROLIER(S) SHALL BE CONNECTED TO RED AND WHITE WIRES AND ODD NUMBERED ELECTROLIER(S) SHALL BE CONNECTED TO BLACK AND WHITE WIRES.
- ELECTROLIER(S) SHALL BE WIRED PER TYPICAL MULTIPLE CIRCUIT ELECTROLIER WIRING DETAIL, BUREAU OF STREET LIGHTING STANDARD DRAWING NO. L-301-1, UNLESS OTHERWISE SPECIFIED.
- MULTIPLE CIRCUITS IN CONDUITS CONTAINING MORE THAN THREE CONDUCTORS SHALL BE APPROPRIATELY IDENTIFIED BY LABELING CONDUCTORS "A", "B", ETC. WITH APPROVED SELF-LAMINATING LETTER TAPE WRAPPED AT LEAST TWICE AROUND THE CONDUCTOR IN EACH PULLBOX. (W.H. BRADY, SPECIAL SELF-LAMINATING WIRE MARKERS OR EQUIVALENT)

LEGEND

- |             |                                                                                                                                                                                                                                                                                                                              |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ⊗           | EXISTING ELECTROLIER TO BE RELOCATED                                                                                                                                                                                                                                                                                         |
| ⊗           | EXISTING UTILITARIAN LIGHTS ON WOODEN POLES WHICH SHALL BE MAINTAINED IN SERVICE UNTIL THE PERMANENT ELECTROLIER LIGHTING SYSTEM IS PLACED IN SERVICE. CONTRACTOR MAY PROVIDE ALTERNATE LIGHTING IN LIEU OF MAINTAINING EXISTING UTILITARIAN LIGHTS IN SERVICE PROVIDED THAT SUCH ARRANGEMENTS ARE APPROVED BY THE ENGINEER. |
| ⊗           | EXISTING ELECTROLIER TO BE REMOVED. (SEE GENERAL NOTE 8)                                                                                                                                                                                                                                                                     |
| ○           | NEW ELECTROLIER                                                                                                                                                                                                                                                                                                              |
| □           | EXISTING ELECTROLIER, NOT TO BE REMOVED OR MODIFIED                                                                                                                                                                                                                                                                          |
| □           | PULLBOX TYPE 2 UNLESS OTHERWISE SHOWN HEREON. ADDITIONAL PULLBOXES SHALL BE REQUIRED AS SPECIFIED. (SEE DELTA NO. 25 AND 28).                                                                                                                                                                                                |
| □           | EXISTING PULLBOX                                                                                                                                                                                                                                                                                                             |
| —           | EXISTING 1" CONDUIT                                                                                                                                                                                                                                                                                                          |
| ---         | EXISTING 1-1/2" CONDUIT                                                                                                                                                                                                                                                                                                      |
| ---         | EXISTING 2" CONDUIT                                                                                                                                                                                                                                                                                                          |
| ---         | NEW 1" CONDUIT                                                                                                                                                                                                                                                                                                               |
| ---         | NEW 1-1/2" CONDUIT                                                                                                                                                                                                                                                                                                           |
| ---         | NEW 2" CONDUIT                                                                                                                                                                                                                                                                                                               |
| ---X---X--- | ABANDON CONDUIT (SEE GENERAL NOTE NO.8 & SUPPLEMENTAL NOTE NO.6)                                                                                                                                                                                                                                                             |
| ⊗           | EXISTING ELECTROLIER FOUNDATION                                                                                                                                                                                                                                                                                              |
| ■           | FUTURE ELECTROLIER                                                                                                                                                                                                                                                                                                           |
| ■           | PROPOSED CATCH BASIN                                                                                                                                                                                                                                                                                                         |
| ⊗           | ELECTROLIER(S) TO BE INSTALLED AT THE INTERSECTION. FOR PROP. 218 SECTION USE ONLY. (GENERAL BENEFIT)                                                                                                                                                                                                                        |

NOTICE TO CONTRACTORS  
MATERIAL LIST

FOLLOWING IS A SUMMARY OF NEW ELECTROLIER(S), LUMINAIRES, LAMPS, BALLASTS, FOUNDATIONS, AND OTHER EQUIPMENT WHICH SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. THIS IS NOT INTENDED TO BE A COMPLETE LIST OF ALL MATERIALS REQUIRED

| SYMBOL | ITEM        | QUANTITY | DESCRIPTION                                                   | STANDARD PLAN NO. | REV. NO. | NOMINAL WATTAGE |
|--------|-------------|----------|---------------------------------------------------------------|-------------------|----------|-----------------|
| ⊗      | ELECTROLIER | 1        | CAL TYPE 26-4-100 W/ 45' M.A., 6' LUM ARM AND TYPE 2 PULL BOX | 26                | 26       | **              |
| ○      | LUMINAIRE   | 1        | 90 LED (LEOTEK)                                               | 29                |          | 159W            |
| ⊗      | ELECTROLIER | 1        | TYPE C-2-100 W/ 25' M.A., 6' LUM ARM AND TYPE 2 PULL BOX      | 26                | 26       | **              |
| ○      | LUMINAIRE   | 1        | 90 LED (LEOTEK)                                               | 29                |          | 159W            |
| ⊗      | ELECTROLIER | 1        | CAL TYPE 19-4-100 W/ 30' M.A., 6' LUM ARM AND TYPE 2 PULL BOX | 26                | 26       | **              |
| ○      | LUMINAIRE   | 1        | 90 LED (LEOTEK)                                               | 29                |          | 159W            |

- \* SET LUMINAIRE TO I.E.S., MEDIUM, CUTOFF, TYPE III LIGHTING DISTRIBUTION.  
\*\* REFER TO D.O.T. TRAFFIC SIGNAL SHEET (COMBINATION TRAFFIC SIGNAL/ST. LTG. POLE)

MATERIAL LIST NOTES

- ALL COBRAHEAD TYPE LUMINAIRES SHALL BE INSTALLED WITHOUT STARTER AND ADHERE TO GENERAL NOTE 16. ALL HPS LAMPS WITHIN COBRAHEAD TYPE LUMINAIRES SHALL BE "EYE IGNITRON" PER CORRESPONDING EYE LIGHTING INTERNATIONAL OF NORTH AMERICA CATALOG #S AS FOLLOWS, OR BSL APPROVED EQUAL:  
150W-59707, 200W-59914, 250W-60012, 310W-60050, 400W-60110
- ALL COBRAHEAD LUMINAIRES REGARDLESS OF WATTAGE ON LOW VOLTAGE, MULTIPLE CIRCUITS SHALL BE EQUIPPED WITH A MONITORING NODE. THE UNIT SHOULD BE PICKED UP AT THE BUREAU'S PLAN COUNTER AT 1149 S. BROADWAY, SUITE #200, LOS ANGELES, CA 90015. THE UNITS WILL BE PROVIDED FOR A NON-REFUNDABLE FEE (APPROXIMATELY \$ 100.00 PER UNIT). THE CONTRACTOR SHALL GIVE SEVEN WORKING DAYS NOTICE (TELEPHONE 231 847-1498) PRIOR TO PICKING UP THE MONITORING UNITS. NODES SHALL BE INSTALLED INTO THE PHOTOELECTRIC CONTROL STANDARD SOCKET PER INSI/NEMA C-136.10 AND SHALL BE ORIENTED IN A NORTHERLY DIRECTION. A SEPARATE P.E. CELL IS NOT REQUIRED FOR LUMINAIRES
- ⊗ INDICATES RELOCATE EXISTING ELECTROLIER CD-953C AND LED LUMINAIRE COMPLETE PER STANDARD PLAN B-3685, REV. 3. REMOVE AND DISPOSE OF EXISTING FOUNDATION AND PULLBOX. INSTALL NEW FOUNDATION AND NEW TYPE 2 PULLBOX AT NEW LOCATION. (SEE GENERAL NOTE NOS. 8, 21 AND DELTA NOTE 25).
- ⊗ INDICATES REMOVE AND DISPOSE OF EXISTING ELECTROLIER, PULLBOX AND FOUNDATION. REMOVE EXISTING LED LUMINAIRE FROM EXISTING ELECTROLIER(S) 24-3-70 AND CD-953C7, TO BE REMOVED, AND INSTALLED ON PROPOSED ELECTROLIER NO.6 (CAL TYPE C-2-100), NO. 5 (CAL TYPE 26-4-100) AND NO. 2 (CAL TYPE 19-4-100). (TOTAL: 3-90 LED LEOTEK)
- ⊗ INDICATES RELOCATE EXISTING ELECTROLIER CD-954 AND LED LUMINAIRE COMPLETE PER STANDARD PLAN S-51.9.6. REMOVE AND DISPOSE OF EXISTING FOUNDATION AND PULLBOX. INSTALL NEW EQUIPMENTS PER MATERIAL LIST. INSTALL NEW TYPE 2 PULLBOX (SEE GENERAL NOTE NO. 21 AND DELTA NOTE 25).

ALL CONSTRUCTION IS PROHIBITED ON MAJOR AND SECONDARY STREET BETWEEN:  
6:00 A.M. TO 9:00 A.M.  
3:30 P.M. TO 7:00 P.M.

NOTICE TO CITY INSPECTOR/CONTRACTOR NO. 1

THIS PROJECT IS IMPACTED BY PROPOSITION 218  
ELECTROLIER(S) SPECIFIED HEREON SHALL NOT BE INSTALLED UNTIL THE LEGAL REQUIREMENTS OF PROPOSITION 218 HAVE BEEN SATISFIED. THE CITY INSPECTOR SHALL CONTACT THE BUREAU OF STREET LIGHTING ENGINEERING AND TECHNICAL SERVICES DIVISION AT (213) 847 - 1431 FOR CONSTRUCTION CLEARANCE. UNDERGROUND FACILITIES MAY BE INSTALLED PRIOR TO PROPOSITION 218 CONSTRUCTION CLEARANCE.

NOTICE TO CITY INSPECTOR/CONTRACTOR NO. 2

THE STREET LIGHTING EQUIPMENT ON THIS PLAN MAY BE SUBJECT TO CHANGE ("GREEN BOOK" 2012 S 307). THE CONTRACTOR SHALL NOT ORDER ANY NEW STREET LIGHTING EQUIPMENT PRIOR TO APPROVAL BY THE BUREAU OF STREET LIGHTING EQUIPMENT APPROVAL SECTION (M-40) FORM). CONTACT (213) 847-1831 FOR MORE INFORMATION.

NOTICE TO CITY INSPECTOR/CONTRACTOR NO. 3

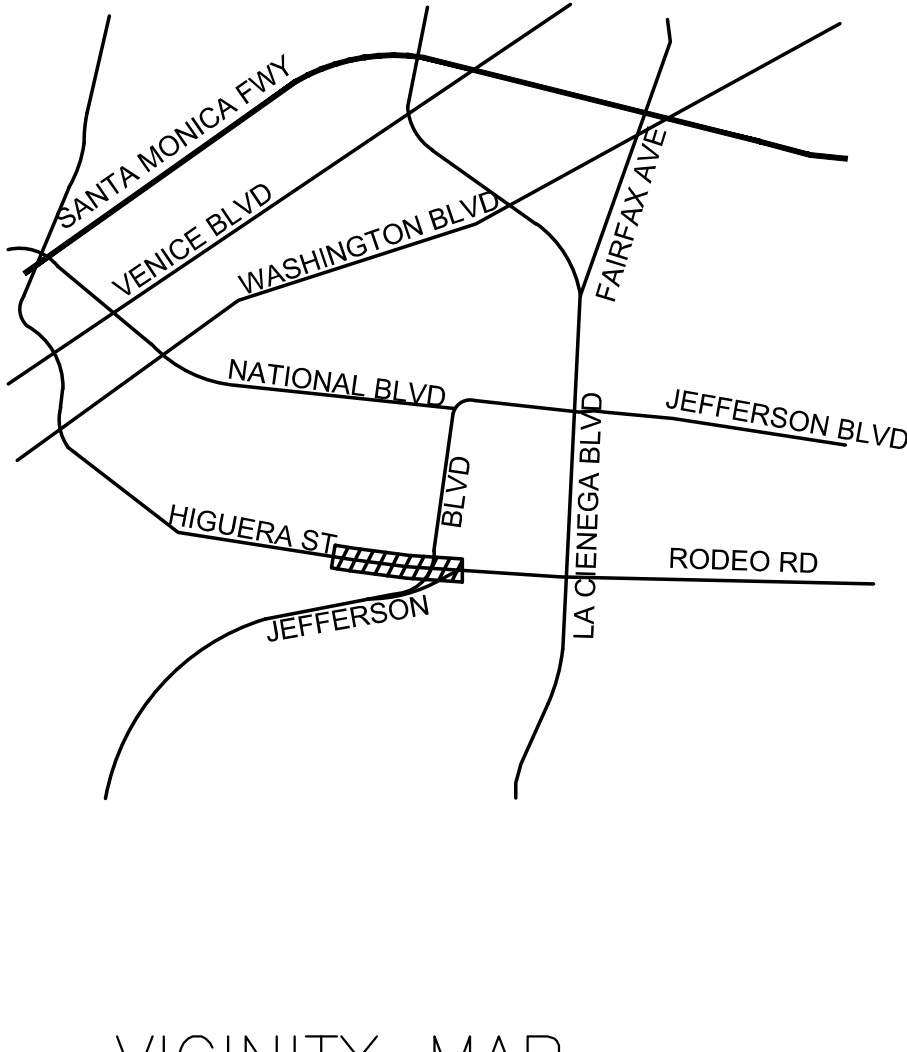
STREET LIGHTING CIRCUIT CLEARANCE

- HIGH VOLTAGE CIRCUIT CLEARANCE REQUEST SHALL BE MADE TO THE BUREAU OF STREET LIGHTING AND SHALL BE PERFORMED BY CITY CREWS.
- LOW VOLTAGE CIRCUIT CLEARANCE SHALL BE PERFORMED BY THE QUALIFIED CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT (2) COPIES OF THE STREET LIGHTING PLAN (24"x36") AND NOTIFY THE CON AD INSPECTOR TO SUBMIT "CONSTRUCTION START NOTICE" AND M-21 FORM TO LADWP STREET LIGHTING SUPPORT SECTION (111 N. HOPE ST., RM 109, LOS ANGELES, CA 90012).

FOR DETAILED PROCEDURES, SEE [balcity.org](http://balcity.org) (CLICK ON THE BUSINESS/CONTRACTORS LINK)

PLAN OF ELECTROLIER LIGHTING SYSTEM

| (M)=MAJOR, (S)=SECONDARY, (L)=LOCAL, (C)=COLLECTOR | STREET              | FROM                        | TO                          |
|----------------------------------------------------|---------------------|-----------------------------|-----------------------------|
|                                                    | RODEO RD. (S)       | CITY LIMIT WITH CULVER CITY | JEFFERSON BLVD. (M)         |
|                                                    | JEFFERSON BLVD. (M) | RODEO RD. (S)               | 400' SOUTH OF RODEO RD. (S) |



VICINITY MAP

SCALE: 1" = 500'



|                                                                         |               |
|-------------------------------------------------------------------------|---------------|
| CONTRACTOR: S.L.S.M. 14998                                              | P.M. NO.: 183 |
| INSPECTED BY: ELECTROLIER UNIT: 5                                       |               |
| DATE ENGRAVED: SUPPLIES PLAN NO: 07/14                                  |               |
| DATE ENGRAVED: COUNCIL DISTRICT: CENTRAL                                |               |
| CORRECTED TO "MS BLAT" BY: THOMAS GUIDE: 672, JT                        |               |
| COUNTY ASSESSOR'S PARCEL NO'S: 4204-005-001, 4205-027-017, 4205-027-019 |               |

| SIGNATURES                        | DATE     |
|-----------------------------------|----------|
| FIELD SURVEY BY: V.H.             | 07/14    |
| DRAWN BY: H.C.                    | 07/14    |
| DESIGNED BY: W.N.                 | 07/14    |
| CHECKED BY: <i>Johny Williams</i> | 05/14/15 |
| SUPERVISED BY: <i>W. Wang</i>     | 5/14/15  |



RODEO RD FROM JEFFERSON TO 240' W/O  
BR003512

CITY OF LOS ANGELES  
ED EBRAHIMIAN, DIRECTOR BUREAU OF STREET LIGHTING

| OTHER DEPARTMENT/BUREAU ACCEPTANCE |              |            | ACCEPTANCE                         |         |
|------------------------------------|--------------|------------|------------------------------------|---------|
| DEPARTMENT OR BUREAU               | ENGINEER     | DATE       |                                    |         |
| ENGINEERING, DISTRICT OFFICE       | <i>Ch...</i> | 08/22/2016 | STREET LIGHTING ENGINEER           | 5/15/15 |
| DEPT. OF TRANSPORTATION            |              |            | by <i>Johny Williams</i>           | DATE    |
| STREET SERVICES, URBAN FORESTRY    |              |            | SENIOR STREET LIGHTING ENGINEER    | DATE    |
| ENGINEERING, STRUCTURAL            |              |            | for <i>Johny Williams</i>          | 5/15/15 |
|                                    |              |            | DIRECTOR BUREAU OF STREET LIGHTING | DATE    |

CULVER CITY PUBLIC WORKS DEPARTMENT

REVIEWED BY :

SAMMY ROMO, P.E.  
ASSOCIATE ENGINEER

DATE:

PLANS PREPARED BY:

**PSOMAS**

555 South Flower Street, Suite 4300  
Los Angeles, CA 90071  
(213) 223-1400, Fax (213) 223-1444  
[www.psomas.com](http://www.psomas.com)

SIGNATURE

5/12/2015

DATE



SCALE OF ORIGINAL PLAN: 1" = 40'

SHEET 13 OF 43 SHEET(S)

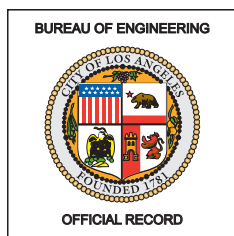
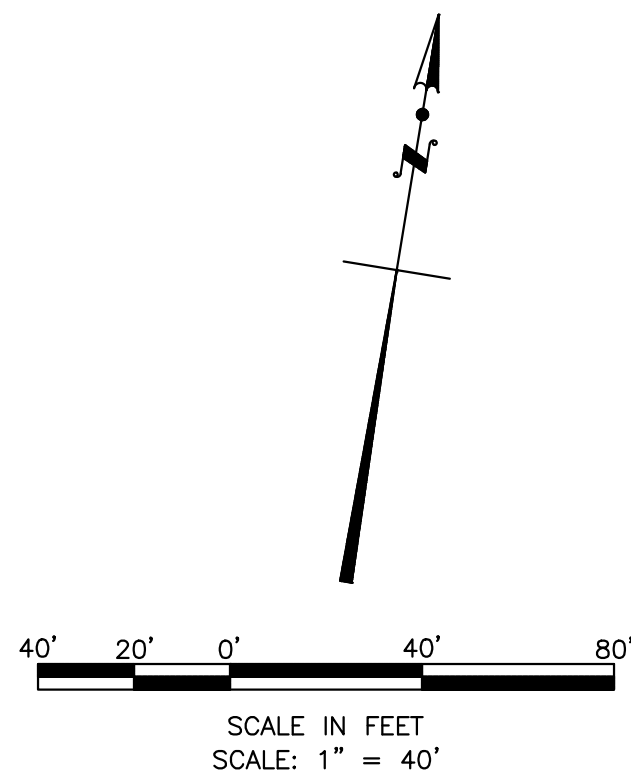
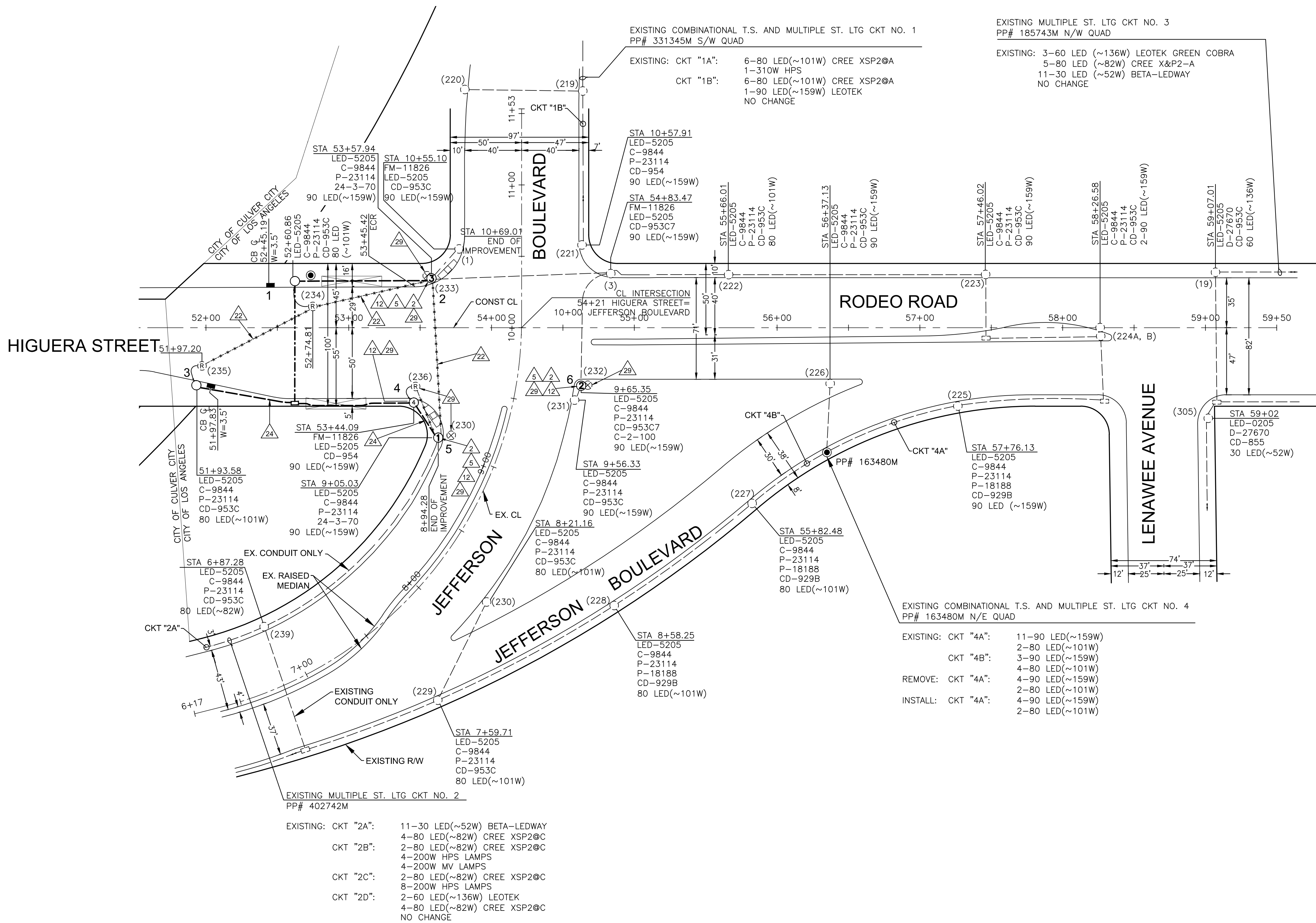
INDEX NUMBER

P-38252



THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

M:\YDC010100\Public\_Works\Sheets\SL-02.dwg May 12, 2015 8:46am



W. R. R. R.  
LABSL 5/14/15

|                                                            |                        |                                                                                                                                                             |  |  |
|------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| CULVER CITY PUBLIC WORKS DEPARTMENT                        |                        | PLANS PREPARED BY:<br><b>PSOMAS</b><br>555 South Flower Street, Suite 4300<br>Los Angeles, CA 90071<br>(213) 223-1400, Fax (213) 223-1444<br>www.psomas.com |  |  |
| REVIEWED BY:<br><br>SAMMY ROMO, P.E.<br>ASSOCIATE ENGINEER | DATE:<br><br>5/12/2015 | SIGNATURE<br><br>DATE<br><br>5/12/2015                                                                                                                      |  |  |

|                                                 |  |                                                                          |                  |
|-------------------------------------------------|--|--------------------------------------------------------------------------|------------------|
| RODEO RD FROM JEFFERSON TO 246' W/O<br>BR003512 |  | CITY OF LOS ANGELES<br>ED EBRAHIMIAN, DIRECTOR BUREAU OF STREET LIGHTING |                  |
| ACCEPTED:                                       |  | DATE:<br>5/15/15                                                         | DATE:<br>5/15/15 |



# WORKSITE TRAFFIC CONTROL NOTES:

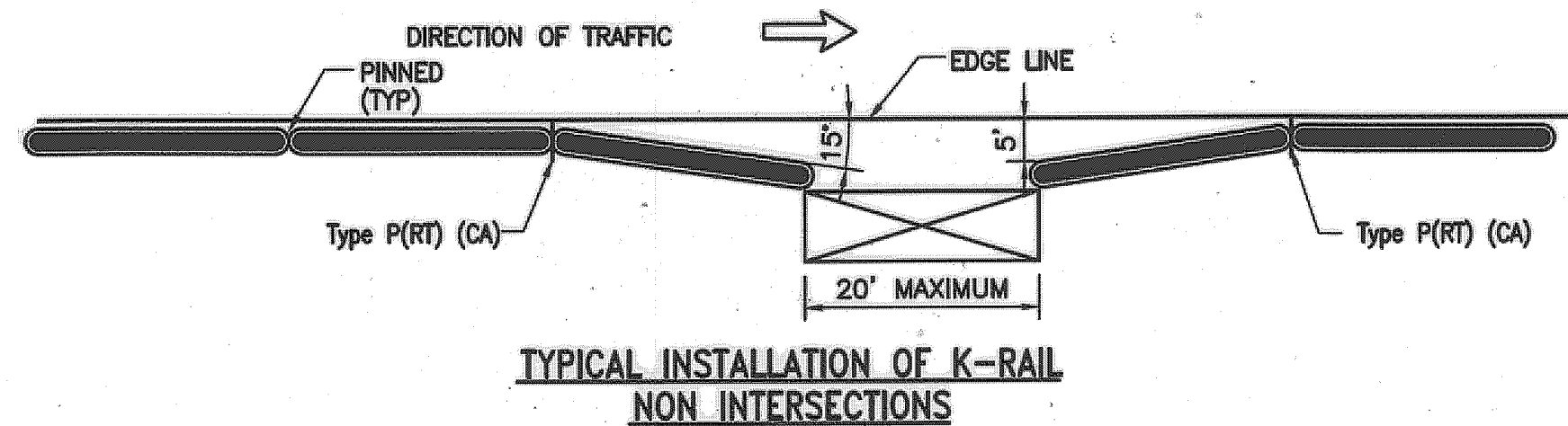
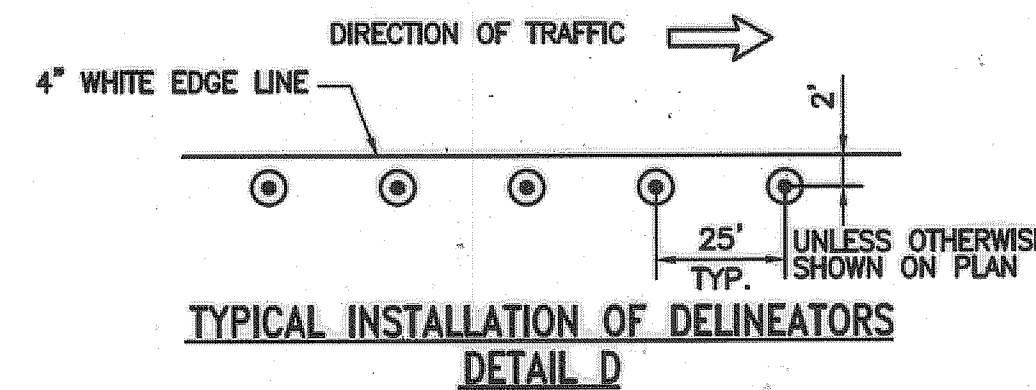
- THESE WORKSITE TRAFFIC CONTROL STAGES ARE FOR THE REPLACEMENT OF HIGUERA - RODEO BRIDGE.
- EXPECTED START DATE IS JULY 7, 2015 FOR THE DURATION OF 20 MONTHS. TEMPORARY 1 WEEK CLOSURE FROM MAY 25-29, 2015.
- CONTACT DON SCHIMA AT (213) 972-5968 FOR LADOT PERSONNEL RESPONSIBLE FOR WTCP IMPLEMENTATION/MAINTENANCE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND MATERIAL INVOLVED IN THE REMOVAL, INSTALLATION, AND MAINTENANCE OF ALL STRIPING, PAVEMENT MARKINGS, SIGNING, BARRICADING, DELINEATORS, ETC SHOWN ON THESE TRAFFIC CONTROL PLANS/ DETOUR PLANS AND AS CONSTRUCTION STAGING NECESSITIES. LINES AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING/GRINDING IN ACCORDANCE WITH THE CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION (LADOT) SPECIFICATION NO. 79-016-10. PAINTING OVER THE EXISTING STRIPING WITH BLACK PAINT IS NOT PERMITTED. TEMPORARY REFLECTIVE PAVEMENT MARKERS (SEE LADOT STANDARD PLANS, S-453.0) SHALL BE MAINTAINED BY THE CONTRACTOR ADJACENT TO THE SCAR OF THE SANDBLASTED CENTERLINE OR TAPED CENTERLINE.
- THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE LADOT TEMPORARY TRAFFIC MANAGEMENT SECTION AT VICTOR.YANG@LACITY.ORG (EMAIL) AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION WITH THE DATE(S) OF IMPLEMENTATION & TYPE OF TEMPORARY TRAFFIC CONTROL IMPLEMENTATION (INCLUDE ACCEPTANCE DATE ON PLAN & SHEET NUMBER) & BRIEF DESCRIPTION OF WORK. DEPARTMENT OF TRANSPORTATION RESERVES THE RIGHT TO OBSERVE THESE CONTROL PLANS IN USE AND TO MAKE NECESSARY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL SUPERSEDE THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL TRAFFIC CONTROL DEVICES NECESSARY TO ENSURE PUBLIC SAFETY AT ALL TIMES DURING CONSTRUCTION.
- ALL CONSTRUCTION RELATED WARNING SIGNS SHALL BE IN BLACK LEGEND WITH ORANGE BACKGROUND AND IN CONFORMANCE WITH THE CALIFORNIA MUTCD (2012 EDITION).
- THE SIGNING AND STRIPING SHOWN FOR REMOVAL ON THESE PLANS MAY BE DIFFERENT FROM WHAT EXISTS AT TIME OF INSTALLATION OF A CONSTRUCTION STAGE. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND STRIPING, WHETHER OR NOT IT IS DEPICTED ACCURATELY ON THESE PLANS.
- CONTRACTOR SHALL NOTIFY METRO AT (213) 922-4632 OR ANY OTHER AFFECTED TRANSIT SERVICES AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION.
- ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE, EFFECTIVENESS, AND CONTINUITY.
- CONTRACTOR SHALL PROVIDE FLAGGERS AS DEEMED NECESSARY BY CITY. A FLAGGER SHALL USE THE APPROVED OCTAGONAL STOP/SLOW PADDLE, SHALL WEAR YELLOW TYPE III SAFETY VEST (PADDLE AND VEST MUST BE REFLECTORIZED FOR NIGHT WORK) AND HARD HAT, AS REQUIRED BY THE WATCH MANUAL, AND MUST BE PROPERLY TRAINED BY THE CONTRACTOR FOR PERFORMING THE WORK SAFELY. APPROPRIATE ADVANCE SIGNS MUST ALSO BE INSTALLED, PER THE WATCH MANUAL.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED FOLLOWING COMPLETION OF EACH CONSTRUCTION STAGE AND THE PERMANENT TRAFFIC CONTROL DEVICES SHALL BE RESTORED BY THE CONTRACTOR UPON REMOVAL OF DETOUR STRIPING.
- ALL SIGNS, DELINEATORS, BARRICADES, ETC., SHALL BE CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS LATEST EDITION, "2012 CALIFORNIA MUTCD," 2012 WATCH MANUAL, AND NOTICE TO CONTRACTORS-COMPREHENSIVE, STANDARD PLAN S-610 (LATEST EDITION).
- CONTRACTOR SHALL NOTIFY LADOT'S SIGNAL MAINTENANCE SUPERVISOR AT (213) 485-7721 FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION WITHIN 10-FOOT OF EXISTING TRAFFIC SIGNAL DETECTOR LOOPS, CONDUIT, INTERCONNECT, OR ATSC FIBER OPTIC CABLE.
- ANY DAMAGE TO TRAFFIC SIGNAL DETECTOR LOOPS, CONDUITS, INTERCONNECT, OR FIBER OPTIC CABLE SHALL BE REPAIRED IMMEDIATELY BY A QUALIFIED CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. LADOT HAS THE OPTION TO DO THE REPAIR AND BILL THE CONTRACTOR. DELAYS IN REPAIR OF INTERCONNECT OR ATSC FIBER OPTIC CABLE WILL REQUIRE THE PAYMENT OF LIQUIDATION DAMAGE TO THE CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION. IMMEDIATELY NOTIFY LADOT SIGNAL REPAIR PERSONNEL AT (213) 485-7721 OF ANY DAMAGES.
- FOR WTCP IMPLEMENTATION DURATION OF LESS THAN ONE (1) MONTH, THE CONTRACTOR SHALL CONTACT THE LADOT SPECIAL TRAFFIC CONTROLS OFFICE AT (213) 485-2298 AT LEAST FIVE (5) WORKING DAYS IN ADVANCE OF EACH NEW CONSTRUCTION STAGE FOR THE INSTALLATION OF TEMPORARY "TOW AWAY NO STOPPING ANY TIME" SIGNS. INSTALLATION OF THE TEMPORARY "TOW AWAY NO STOPPING ANY TIME" SIGNS AT PARKING METER ZONES SHALL ALSO INCLUDE COVERING METER HEADS AND THE ASSOCIATED PARKING RESTRICTION. FOR WTCP IMPLEMENTATION DURATION OF MORE THAN ONE (1) MONTH, THE CONTRACTOR SHALL FURNISH AND INSTALL "TOW AWAY NO STOPPING ANY TIME" SIGN PER CITY SPECIFICATION (METAL AND REFLECTORIZED). CONTACT LADOT TEMPORARY TRAFFIC MANAGEMENT ENGINEER FOR SAMPLES.
- THERE SHALL BE NO STORAGE OF CONSTRUCTION MATERIALS OR EQUIPMENT OUTSIDE THE DESIGNATED WORK AREA AS INDICATED IN THE WTCP. STORAGE OF CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THE DESIGNATED AREA SHALL BE DONE IN A MANNER NOT TO CREATE VISIBILITY OBSTRUCTIONS TO THE MOTORING PUBLIC.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES AND SHALL COORDINATE WITH RESIDENTS/BUSINESSES ANY CLOSURE/LIMITED ACCESS TO THEIR DRIVEWAYS.
- NOTIFY FILM LA (JOSH MINGO) AT (213)977-8600 AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION TO COORDINATE WITH FILMING ACTIVITIES.
- CONTRACTOR SHALL PERFORM WORK IN ONLY ONE STAGE AT A TIME. THE CONTRACTOR SHALL ONLY UTILIZE THAT PORTION OF THE DESIGNATED "WORK AREA" WHICH IS NEEDED FOR CONSTRUCTION AT ANY GIVEN TIME.
- THE CROSSWALKS ACROSS THREE LEGS OF ANY SIGNALIZED INTERSECTION SHALL BE MAINTAINED AT ALL TIMES. "NO PED CROSSING" R9-3/R9-3b SIGNS SHALL BE INSTALLED WHEN A PAINTED CROSSWALK IS UNAVAILABLE FOR USE DUE TO CONSTRUCTION. PEDESTRIAN SIGNAL INDICATIONS FOR THE CLOSED CROSSWALK SHALL BE COVERED PER WATCH MANUAL (SECTION 6-2).
- CONTRACTOR SHALL INSTALL R3-18 (NO LEFT AND NO U-TURN) SIGNS AT INTERSECTIONS WHERE THE LEFT TURN LANE HAS BEEN CLOSED FOR CONSTRUCTION. SIGNS SHOULD BE INSTALLED ON MAST ARMS AND FAR LEFT OF THE INTERSECTION OR AT LOCATIONS WHERE THEY WILL BE CLEARLY VISIBLE BY THE THRU TRAFFIC.
- FOR OTHER REQUIREMENTS RELATED TO TRAFFIC CONTROL PLANS AND WORK AREA MAINTENANCE, THE CONTRACTOR SHALL FOLLOW THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2012 EDITION, "WORK AREA TRAFFIC CONTROL HANDBOOK" (WATCH MANUAL) LATEST EDITION, ALL RELATED SECTIONS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, INCLUDING SECTION 7-10 "PUBLIC CONVENIENCE AND SAFETY," AND 302-4.4 "PUBLIC CONVENIENCE AND TRAFFIC CONTROL."
- CONTRACTOR SHALL PROVIDE CHANGEABLE MESSAGE SIGNS AS FIELD CONDITIONS/DETOURS WARRANT AND AS DEEMED NECESSARY BY LADOT, EVEN IF THEY ARE NOT SHOWN ON THESE PLANS.
- ALL TEMPORARY SIGNAGE INSTALLED ADJACENT TO PEDESTRIAN TRAVEL WAY MUST ALLOW FOR ADA-COMPLIANT PASSAGeways.
- CONCRETE K-RAIL SECTIONS TO BE CONTINUOUSLY CONNECTED. IN AREAS WITH LESS THAN 2-Feet TO EXCAVATION, SECURE K-RAIL TO PAVEMENT PER CALTRANS SPECIFICATIONS.
- ANY CHANGES TO WORK AREAS, WORK HOURS, AND/OR APPROVED PLANS SHALL BE SUBMITTED TO LADOT FOR REVIEW AND APPROVAL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRIPING (PROPOSED AND EXISTING) SHOWN ON THIS WTCP TO BE IN GOOD CONDITION AND VISIBLE. THE CONTRACTOR SHALL REPAINT ANY FADED EXISTING STRIPING AS DIRECTED BY THE LADOT ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY MISSING OR DAMAGED SIGNS (DUE TO CONSTRUCTION) ACCORDING TO THE LATEST LADOT SPECIFICATIONS.
- THE CONTRACTOR SHALL INSTALL SIDE REFLECTORS WITH CUBE-CORNER LENSES OR TOP-MOUNTED REFLECTORS (FACING THE DRIVER) ON ALL K-RAIL BARRIERS.
- NEED BOARD OF PUBLIC WORKS APPROVAL FOR ANY LANE OR SIDEWALK CLOSURES.
- ALL STREET, LANE, AND SIDEWALK CLOSURES SHALL BE APPROVED BY THE BOARD OF PUBLIC WORKS (OR THEIR DESIGNEE). IN ADDITION, AND EXEMPTION OF THE MAYOR'S EXECUTIVE DIRECTIVE NO. 2 (RUSH HOUR CONSTRUCTION ON CITY STREET) SHALL BE APPROVED BY THE BUREAU OF ENGINEERING FOR ANY PEAK HOUR LANE CLOSURE.
- THE CONTRACTOR SHALL CONTACT THE LADOT PARKING METER PLANNING SECTION AT (213) 473-8270 FIVE (5) WORKING DAYS IN ADVANCE OF CONSTRUCTION AFFECTING PARKING METERS AND SIGNS AS NEEDED AND, UPON COMPLETION OF THE PROJECT, THE REINSTALLATION OF METERS, SIGNS, AND/OR PAINT AS NEEDED. REMOVAL AND REINSTALLATION COSTS WILL BE DEDUCTED FROM THE CONTRACTOR'S DEPOSIT. FAILURE TO NOTIFY LADOT WILL MAKE THE CONTRACTOR LIABLE FOR THE COST OF ANY MISSING OR DAMAGED METERS, SIGNS, ETC., WHICH LADOT'S RECORDS INDICATE WERE PRESENT.

## TEMPORARY STRIPING NOTES:

- REMOVE ALL CONFLICTING STRIPING PRIOR TO INSTALLATION OF WTCP/TCP.
- WHEN REMOVAL IS REQUIRED BY CONSTRUCTION, CROSSWALK MARKINGS AND PEDESTRIAN SIGNAL HEADS SHALL BE REMOVED SIMULTANEOUSLY.
- BUBBLE NOTES: (SEE PLAN SHEETS)
- WHEN REQUIRED BY CONSTRUCTION, THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH LACMTA, OR THE APPROPRIATE TRANSIT OPERATION, FOR THE TEMPORARY RELOCATION OF BUS STOPS/ZONE. COORDINATE RELOCATION WITH LADOT FOR INSTALLATION OF "TEMPORARY TOW AWAY NO STOPPING-BUS ZONE" SIGNS.
- CONTRACTOR SHALL PROVIDE REFLECTORIZED CONES AT TYPE III BARRICADE SUPPORTS TO ALERT PEDESTRIANS TO THE BARRICADE SUPPORT.
- FIELD CONDITIONS MAY VARY FROM THOSE SHOWN ON THE WTCP. IN THE EVENT FIELD CONDITIONS ARE DIFFERENT, THE CONTRACTOR SHALL COORDINATE WITH LADOT AND THE AUTHORITY BEFORE IMPLEMENTING THE WTCP. THE CONTRACTOR MAY BE REQUIRED TO SUBMIT A REVISED WTCP TO LADOT AND THE AUTHORITY FOR APPROVAL PRIOR TO IMPLEMENTATION.

## RESTORATION STRIPING NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LABOR AND MATERIAL INVOLVED IN THE MARKOUT AND INSTALLATION OF ALL RESTORATION STRIPING/PAVEMENT MARKING. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE REMOVAL OF ALL CONFLICTING DETOUR, STRIPING, SIGNING, AND OTHER DETOUR-RELATED TRAFFIC CONTROL DEVICES PRIOR TO THE INSTALLATION OF THE FINAL STRIPING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAINTING OF ALL EXISTING STRIPING THAT HAS BEEN DAMAGED DURING THE CONSTRUCTION PROCESS.
- WHEN EXISTING LANE(S) WILL REMAIN OPEN AFTER THE MARKOUT IS ACCOMPLISHED, THE MARKOUT SHALL CONSIST ONLY OF MARKED CONTROL POINTS. WHEN THE MARKOUT WILL BE DONE AS PART OF A CONTINUOUS OPERATION TO MODIFY STRIPING, THEN THE MARKOUT SHALL BE HEAVY PAINT BRUSH MARKINGS OVER A PULLED ROPE IN THE RESPECTIVE WHITE AND YELLOW COLORS OF THE PROPOSED STRIPING. STRIPING AND PAVEMENT MARKING SHALL BE IN HOT APPLIED ALKYL THERMOPLASTIC IN ACCORDANCE WITH LADOT SPECIFICATION NO. S-51-005-10 AND 76-012-15.
- THE CONTRACTOR SHALL CONTACT LADOT TEMPORARY TRAFFIC MANAGEMENT SECTION AT DON.SCHIMA@LACITY.ORG (EMAIL) AT LEAST (5) WORKING DAYS BEFORE BEGINNING OF MARKOUT. THE CONTRACTOR SHALL CORRECT ALL ERRORS IN MARKOUT REQUESTED BY LADOT. THE INSTALLATION OF THERMOPLASTIC STRIPING MAY PROCEED ONLY AFTER APPROVAL OF MARKOUT BY THE LADOT ENGINEER.
- TEMPORARY REFLECTIVE RAISED PAVEMENT MARKERS SHALL BE MAINTAINED ADJACENT TO ANY TEMPORARY CENTERLINE, MARKOUT CENTERLINE, OR A SCAR OF A SANDBLASTED CENTERLINE, AS APPLICABLE, AS PER LAYOUT STANDARD PLAN NO. S-453.0 IF CONTRACTOR IS UNABLE TO RESTORE STRIPING AS PLANNED.



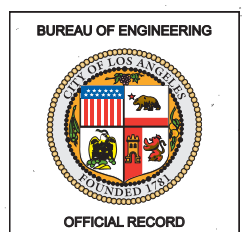
## LEGEND:

- EXISTING STRIPING & MARKINGS TO REMAIN
- EXISTING STRIPING & MARKINGS TO BE REMOVED
- PROPOSED STRIPING & MARKINGS
- EXISTING RED CURB MARKINGS TO REMAIN
- EXISTING RED CURB MARKINGS TO BE REMOVED
- PROPOSED RED CURB MARKINGS
- EXISTING SIGN AND POST
- EXISTING SIGN AND POST TO BE REMOVED OR RELOCATED
- PROPOSED SIGN AND POST
- SIGNALIZED INTERSECTION
- PROPOSED TYPE III BARRICADE WITH SIGN(S)
- PROPOSED WORK AREA
- TEMPORARY DELINEATORS WITH REFLECTIVE SHEETING (SPACED AS SHOWN ON PLAN)
- PORTABLE CHANGEABLE MESSAGE SIGN
- PROPOSED 20' K-RAIL (INTERCONNECTED)
- PROPOSED FLASHING ARROW BOARD "DIAMOND"

## NOTES:

- LENGTH OF DESIGN : 500 ±

|                         |                             |                      |
|-------------------------|-----------------------------|----------------------|
| THRU TRAFFIC MERGE LEFT | ROAD CLOSED AHEAD           | LANE CLOSED          |
| W4-7                    | W20-3                       | C30(CA)              |
| ONLY                    | ROAD WORK AHEAD             | DETOUR               |
| R3-5                    | W20-1                       | M4-10                |
| NO PEDESTRIAN CROSSING  | OM-1 (YELLOW)               | STOP                 |
| W3-1                    | OM-1 (YELLOW)               | R1-1                 |
| END                     | SPEED LIMIT 35              | R3-1                 |
| R9-3                    | R2-1                        | R3-4                 |
| R81B(CA)                | R3-2                        | R3-4                 |
| ONLY                    | RIGHT LANE MUST TURN RIGHT  |                      |
| R3-5A                   | R3-7                        |                      |
| R3-18                   | R4-7                        |                      |
| ONE WAY                 | R6-1                        | R9-3A                |
| USE CROSSWALK           | USE CROSSWALK               |                      |
| R9-3B                   | R9-3B                       |                      |
| NO TURN ON RED          | ROAD CLOSED TO THRU TRAFFIC |                      |
| R10-11                  | R11-4                       |                      |
| ROAD CLOSED             | BIKE LANE                   |                      |
| R11-2                   | R81(CA)                     |                      |
| BEGIN                   | SW44(CA)                    |                      |
| R81A(CA)                | W4-1                        | W12-1                |
| DETOUR AHEAD            | DETOUR AHEAD                | END ROAD WORK        |
| W20-2                   | G20-2                       |                      |
| DATE                    | 1/15/15                     | DATE                 |
| BY                      | US                          | PRINCIPAL            |
| SUPERVISOR              | DISTRICT                    | TE/SR                |
| DATE                    | DATE                        | REVISION DESCRIPTION |
| NO.                     | NO.                         | NO.                  |



NOTES, LEGEND AND DETAILS  
WORKSITE TRAFFIC CONTROL PLAN  
HIGUERA STREET BRIDGE REPLACEMENT  
PROJECT BR003512

|                                                                                            |                                        |                                |              |
|--------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------|--------------|
| REVIEWED                                                                                   | May 13, 2015                           | ACCEPTED                       | May 13, 2015 |
| for Transportation Engineer                                                                |                                        | Senior Transportation Engineer |              |
| CITY OF LOS ANGELES<br>DEPARTMENT OF TRANSPORTATION<br>SELETA J. REYNOLDS, GENERAL MANAGER |                                        |                                |              |
| HIGUERA STREET<br>EASTHAM DRIVE TO JEFFERSON BOULEVARD                                     |                                        |                                |              |
| PROJECT NO.                                                                                | BR003512                               | DRAWING NO.                    | D-0312       |
| THOMAS GUIDE                                                                               | DISTRICT                               | 672, JI                        | WILSHIRE     |
| ACCEPTED BY:                                                                               | SAHMY ROMO, P.E.<br>ASSOCIATE ENGINEER | DATE:                          | 05/13/2015   |

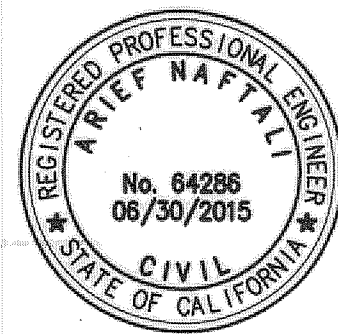
NOTICE : IF THE PLAN HAS NOT BEEN IMPLEMENTED WITHIN TWO (2) YEARS OF THE APPROVAL DATE, IT MUST BE RESUBMITTED TO LADOT FOR REVIEW AND ACCEPTANCE.

LADOT HAS DETERMINED THAT THERE WILL BE SIGNIFICANT IMPACT TO TRAFFIC CIRCULATION DUE TO THE REQUESTED EXEMPTION FOR LANE CLOSURES DURING PEAK PERIODS. LADOT'S ACCEPTANCE OF THIS WORKSITE PLAN DOES NOT CONSTITUTE A MITIGATION FOR SUCH AN IMPACT.

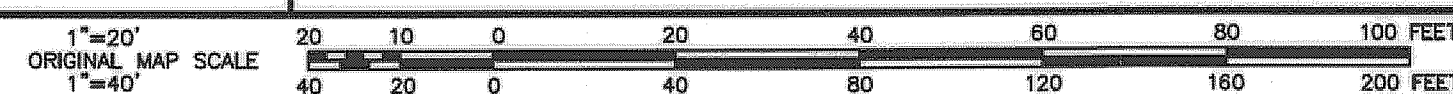
CULVER CITY PUBLIC WORKS DEPARTMENT

ACCEPTED BY:  
SAHMY ROMO, P.E.  
ASSOCIATE ENGINEER  
DATE: 05/13/2015

PLANS PREPARED BY:  
**PSOMAS**  
555 South Flower Street, Suite 4300  
Los Angeles, CA 90071  
(213) 223-1400 Fax (213) 223-1444



05/11/2015  
DATE



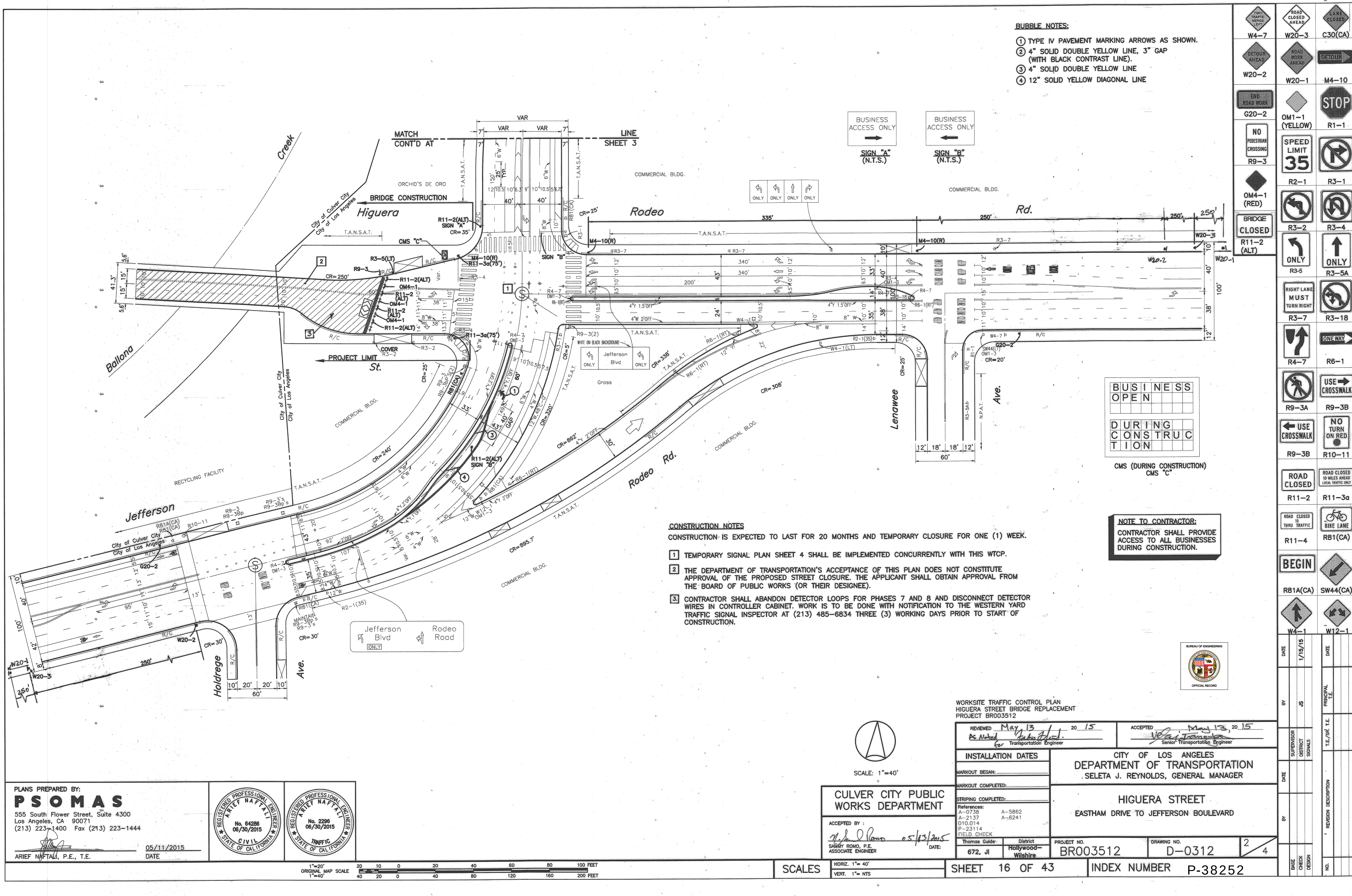
SCALES

HORIZ. 1"= NTS  
VERT. 1"= NTS

SHEET 15 OF 43

INDEX NUMBER P-38252

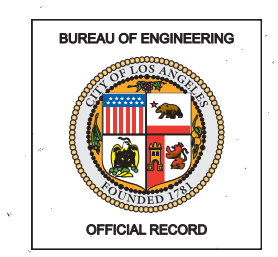




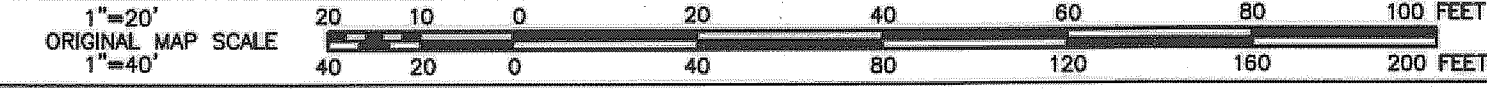
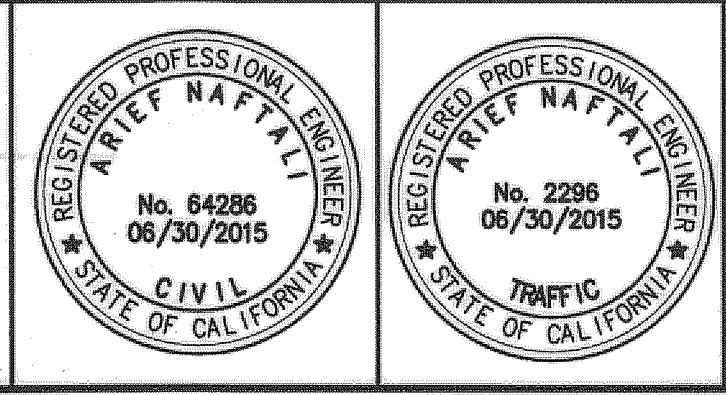
- BUBBLE NOTES:**
- ① TYPE IV PAVEMENT MARKING ARROWS AS SHOWN.
  - ② 4" SOLID DOUBLE YELLOW LINE, 3" GAP (WITH BLACK CONTRAST LINE).
  - ③ 4" SOLID DOUBLE YELLOW LINE
  - ④ 12" SOLID YELLOW DIAGONAL LINE

- CONSTRUCTION NOTES**
- CONSTRUCTION IS EXPECTED TO LAST FOR 20 MONTHS AND TEMPORARY CLOSURE FOR ONE (1) WEEK.
- ① TEMPORARY SIGNAL PLAN SHEET 4 SHALL BE IMPLEMENTED CONCURRENTLY WITH THIS WTOP.
  - ② THE DEPARTMENT OF TRANSPORTATION'S ACCEPTANCE OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THE PROPOSED STREET CLOSURE. THE APPLICANT SHALL OBTAIN APPROVAL FROM THE BOARD OF PUBLIC WORKS (OR THEIR DESIGNEE).
  - ③ CONTRACTOR SHALL ABANDON DETECTOR LOOPS FOR PHASES 7 AND 8 AND DISCONNECT DETECTOR WIRES IN CONTROLLER CABINET. WORK IS TO BE DONE WITH NOTIFICATION TO THE WESTERN YARD TRAFFIC SIGNAL INSPECTOR AT (213) 485-6834 THREE (3) WORKING DAYS PRIOR TO START OF CONSTRUCTION.

**NOTE TO CONTRACTOR:**  
CONTRACTOR SHALL PROVIDE ACCESS TO ALL BUSINESSES DURING CONSTRUCTION.



PLANS PREPARED BY:  
**PSOMAS**  
555 South Flower Street, Suite 4300  
Los Angeles, CA 90071  
(213) 223-1400 Fax (213) 223-1444



**CULVER CITY PUBLIC WORKS DEPARTMENT**

ACCEPTED BY: *Sammy Romo* 05/13/2015  
SAMMY ROMO, P.E.  
ASSOCIATE ENGINEER

|                                                                                    |  |                                                                                            |  |
|------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------|--|
| REVIEWED: <i>May 13, 2015</i><br><i>Ps Nafati</i> Transportation Engineer          |  | ACCEPTED: <i>May 13, 2015</i><br><i>V. J. Reynolds</i> Senior Transportation Engineer      |  |
| INSTALLATION DATES                                                                 |  | CITY OF LOS ANGELES<br>DEPARTMENT OF TRANSPORTATION<br>SELETA J. REYNOLDS, GENERAL MANAGER |  |
| MARKOUT BEGAN:                                                                     |  | HIGUERA STREET<br>EASTHAM DRIVE TO JEFFERSON BOULEVARD                                     |  |
| MARKOUT COMPLETED:                                                                 |  | PROJECT NO. <b>BR003512</b>                                                                |  |
| STRIPING COMPLETED:                                                                |  | DRAWING NO. <b>D-0312</b>                                                                  |  |
| References:<br>A-0738 A-5862<br>A-2137 A-6241<br>010.014<br>P-23114<br>FIELD CHECK |  | SHEET <b>16 OF 43</b>                                                                      |  |
| Thomas Guide: District<br>672, JI Hollywood-Wilshire                               |  | INDEX NUMBER <b>P-38252</b>                                                                |  |
| DATE: <i>05/13/2015</i>                                                            |  | NO. <b>2</b>                                                                               |  |











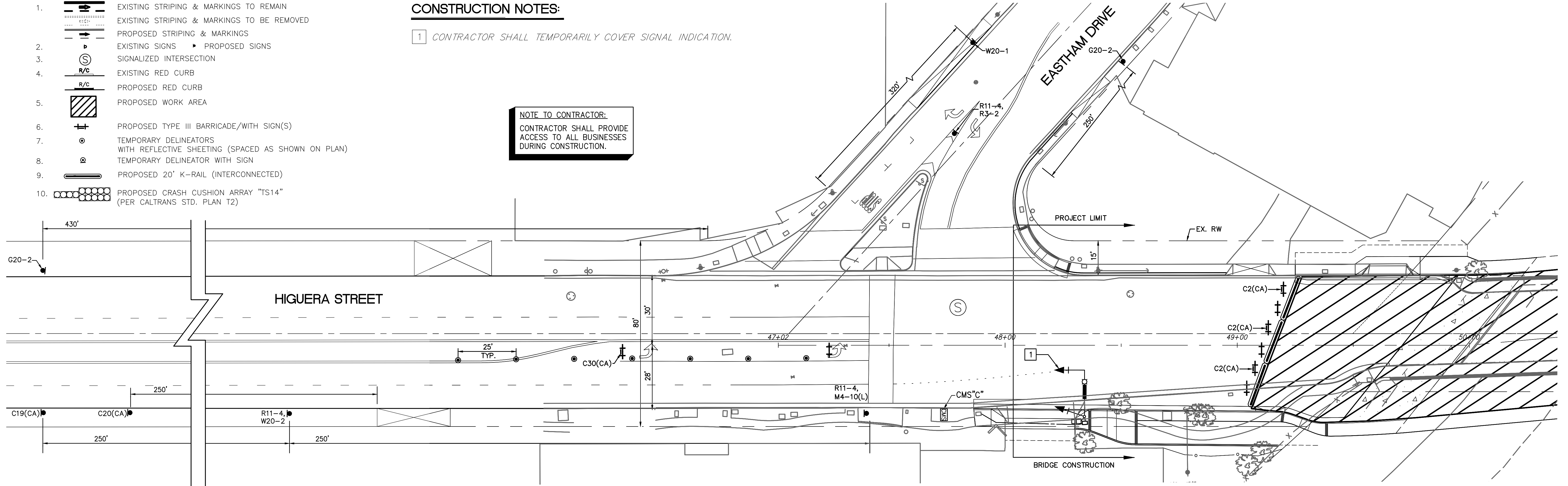
M:\1100010100\Public\_Works\Sheets\TC-04.dwg [TC-04] Mon, 26 Sep 2016, 8:56 AM - vincent.hellens

- LEGEND**
1. EXISTING STRIPING & MARKINGS TO REMAIN
  2. EXISTING STRIPING & MARKINGS TO BE REMOVED
  3. PROPOSED STRIPING & MARKINGS
  4. EXISTING SIGNS
  5. PROPOSED SIGNS
  6. SIGNALIZED INTERSECTION
  7. EXISTING RED CURB
  8. PROPOSED RED CURB
  9. PROPOSED WORK AREA
  10. PROPOSED TYPE III BARRICADE/WITH SIGN(S)
  11. TEMPORARY DELINEATORS WITH REFLECTIVE SHEETING (SPACED AS SHOWN ON PLAN)
  12. TEMPORARY DELINEATOR WITH SIGN
  13. PROPOSED 20' K-RAIL (INTERCONNECTED)
  14. PROPOSED CRASH CUSHION ARRAY "TS14" (PER CALTRANS STD. PLAN T2)

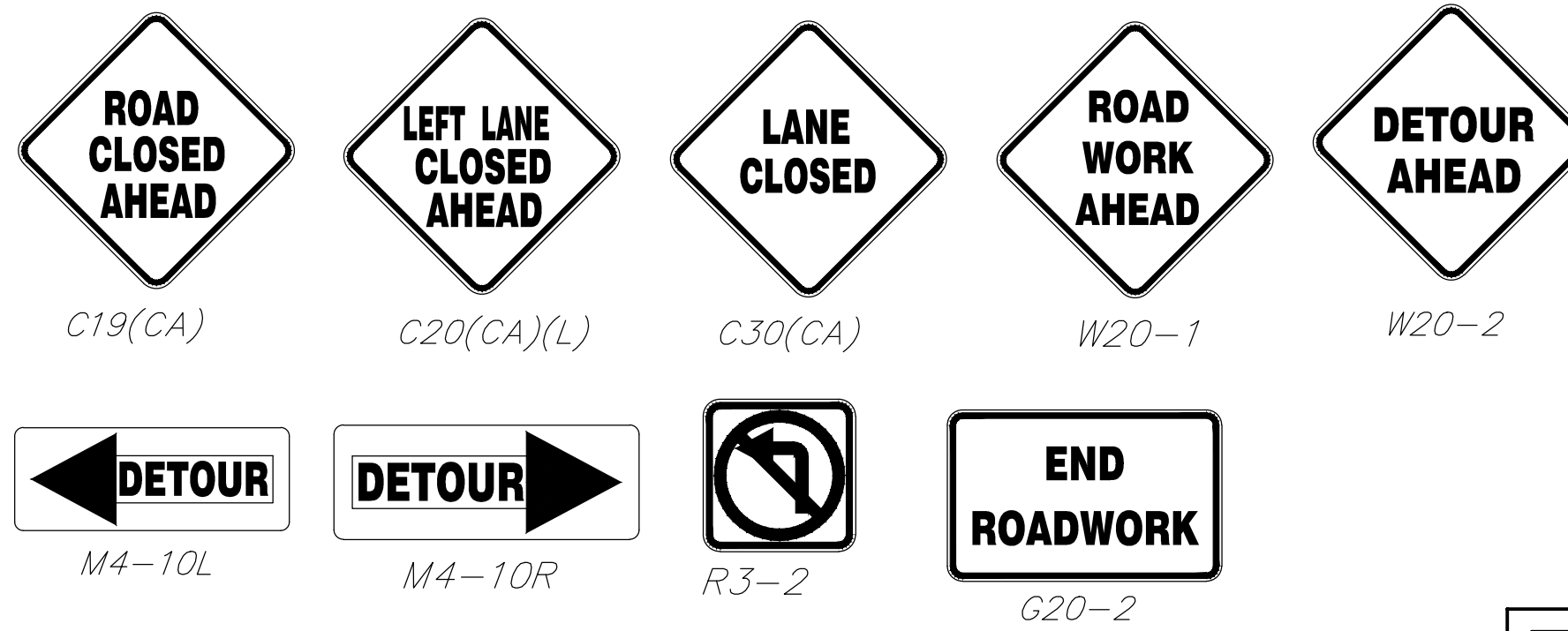
**CONSTRUCTION NOTES:**

1. CONTRACTOR SHALL TEMPORARILY COVER SIGNAL INDICATION.

**NOTE TO CONTRACTOR:**  
CONTRACTOR SHALL PROVIDE ACCESS TO ALL BUSINESSES DURING CONSTRUCTION.



**SIGN LEGEND:**

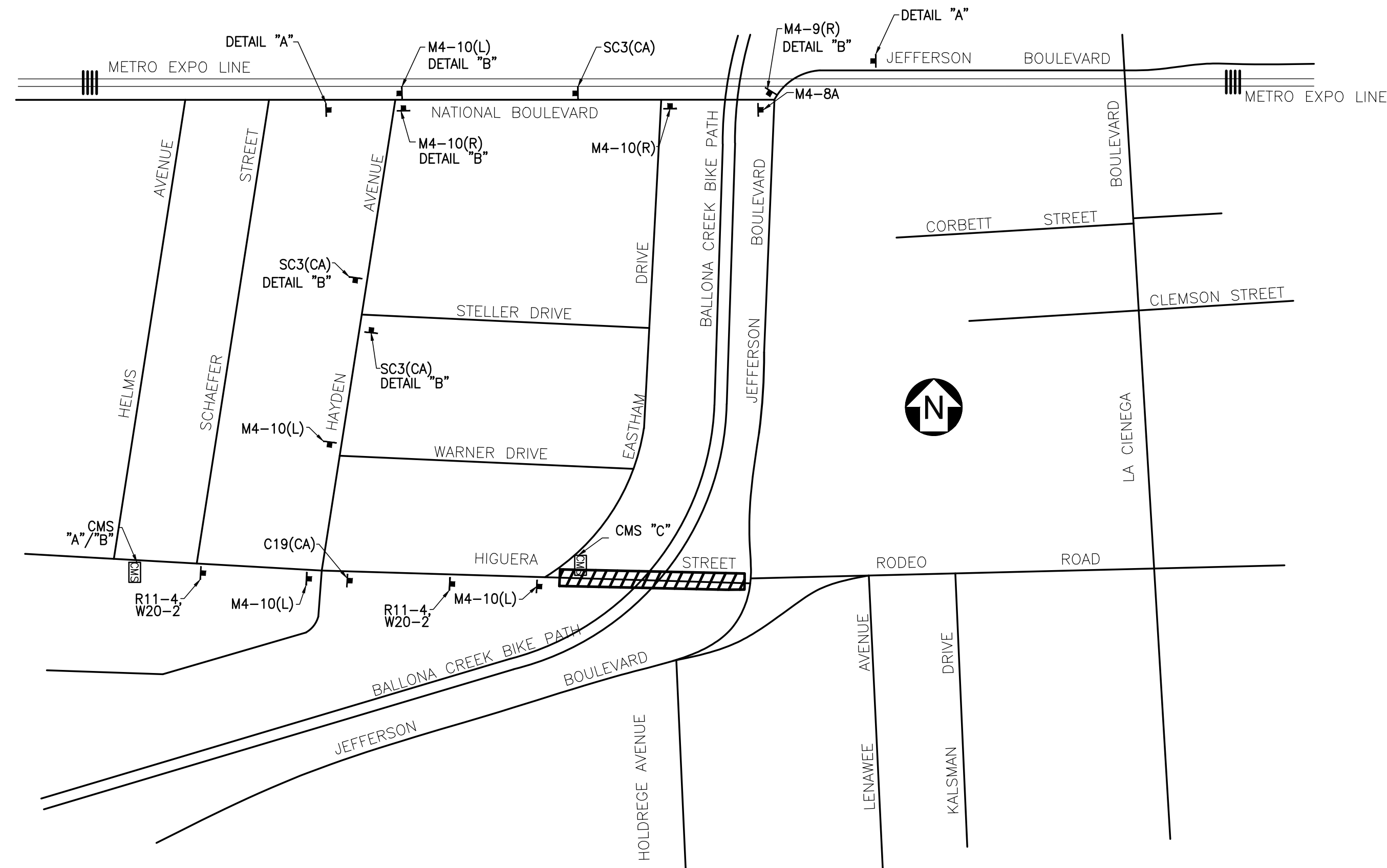


HIGUERA ST  
CLOSED  
AT  
JEFFERSON  
USE DETOUR

HIGUERA ST

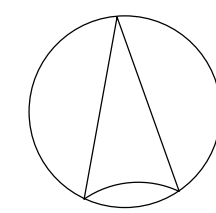
DETAIL "A"

DETAIL "B"



**DETOUR MAP**

NTS



SCALE: 1"=40'

REVIEWED BY :

SAMMY ROMO, P.E.  
ASSOCIATE ENGINEER

DATE:

PLANS PREPARED BY:

**PSOMAS**

555 South Flower Street, Suite 4300  
Los Angeles, CA 90071  
(213) 223-1400 Fax (213) 223-1444

ARIEF NAFTALI, T.E. 2296

Sep 26, 2016



HIGUERA BRIDGE REPLACEMENT PROJECT

CULVER CITY PUBLIC WORKS DEPARTMENT

HIGUERA STREET  
AT EASTHAM DRIVE

TRAFFIC CONTROL PLAN

BR003512

JOB

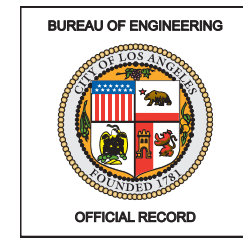
DWG

SHEET 19 OF 43

P-38252



# NOT USED



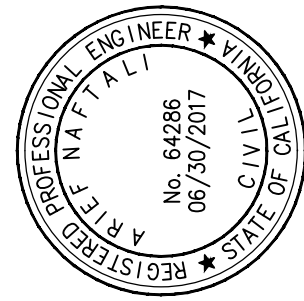
**CULVER CITY PUBLIC  
WORKS DEPARTMENT**

SAMMY ROMO, P.E.  
ASSOCIATE ENGINEER

PLANS PREPARED BY:  
**P S O M A S**

555 South Flower Street, Suite 4300  
Los Angeles, CA 90071  
(213) 223-1400 Fax (213) 223-1444

ARIEF NAFTALI, P.E. 84286

**PLANS PREPARED BY:**

IDC Consulting Engineers, Inc.

203 WEST CERRITOS AVENUE,  
ANAHEIM, CA 92805  
Tel (714) 520-9070 Fax (714) 520-9068

CITY OF LOS ANGELES

VERTICAL CONTROL: BM# 13-00910 AND BM# 13-00930 NAVD88 2000ADJ  
HORIZONTAL CONTROL: SEE PLAN SHEETS FOR CONTROL LINE REFERENCE

|              |                                                     |
|--------------|-----------------------------------------------------|
| SHEET TITLE: | REVOCABLE PERMIT                                    |
| PROJECT:     | RODEO RD FROM JEFFERSON<br>TO 246' W/O              |
| ADDRESS:     | HIGUERA STREET FROM EASTHAM DR<br>TO JEFFERSON BLVD |

DRAWING NO.

20

SHEET **20** OF **43** SHEETS

DEPARTMENT OF PUBLIC WORKS

PSOMAS

DESIGNED BY: VINCENT HELLENS

DRAWN BY: STAFF

CHECKED BY: ARIEF NAFTALI, PE

APPROVED BY: ARIEF NAFTALI, PE

01/15/10

BUREAU OF ENGINEERING  
APPROVAL:

OFFICE: CENTRAL DISTRICT  
CHECKED BY: (PRINTED NAME)

|            |       |
|------------|-------|
| SIGNATURE: | DATE: |
|            |       |
|            |       |

|       |            |       |     |
|-------|------------|-------|-----|
| ▽ NO. | REVISIONS: | DATE: | BY: |
|       |            |       |     |

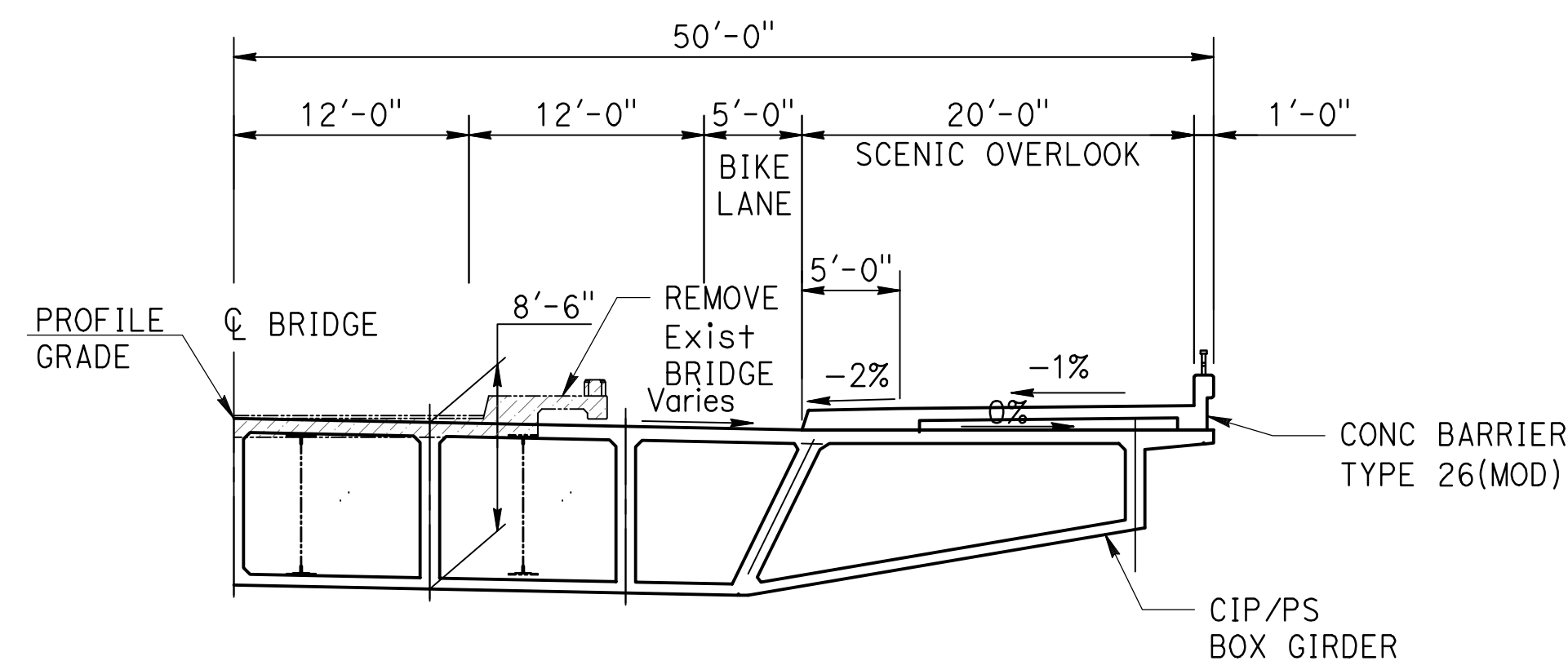
[illegible]

|                   |                         |
|-------------------|-------------------------|
| WORK ACCEPTED     | SERIAL NO.              |
| INDEX NO. D-38252 | B - PERMITS<br>BB003512 |

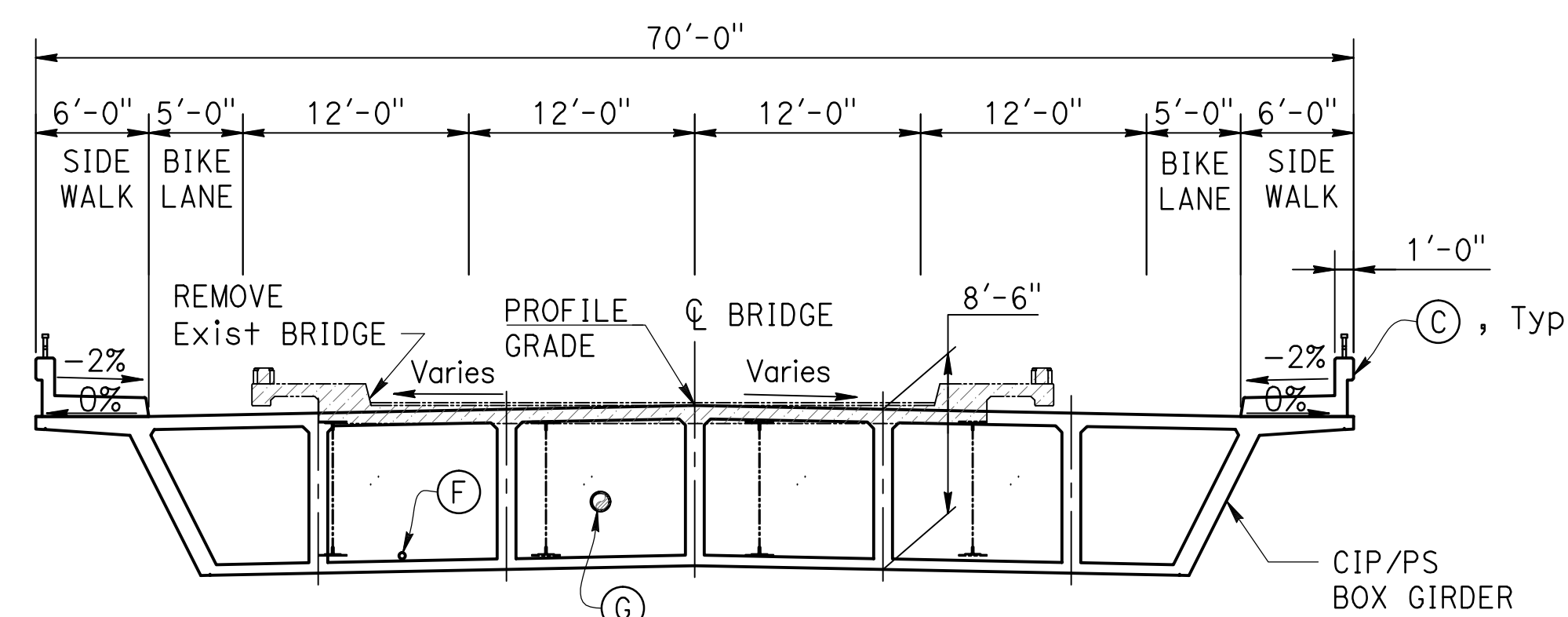


CITY OF LOS ANGELES





PART TYPICAL SECTION AT OVERLOOK



TYPICAL SECTION  
1/8" = 1'-0"

**LEGEND:**

- Existing Structure  
 ————— New Structure  
 Existing Structure Removal  
 Direction of Traffic  
 Direction of Flow

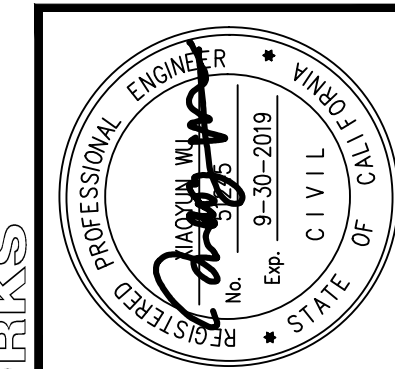
**KEY NOTES:**

- (A) Point of Minimum Vertical Clearance
- (B) Paint "Bridge No. 54-0781"
- (C) Paint "HIGUERA STREET BRIDGE"
- (D) Concrete Barrier Type 26
- (E) Structure Approach Type N(30S)
- (F) Deck Drain, Type D-2
- (G) AT&T TELEPHONE LINE
- (H) 12"Ø WATER LINE
- (I) SHADE STRUCTURE BY OTHERS, SEE ARCHITECTURAL PLAN

NOTES:

1. For removal details, see "DEMOLITION PLAN" sheet.
2. For limits of slope paving and details, see "SLOPE PAVING" sheet.

**NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.**



DEPARTMENT OF PUBLIC WORKS

| APPROVED          |             | DATE     |
|-------------------|-------------|----------|
| PROJECT ENGINEER: | S. SHARIFAN | 10/04/16 |
| DESIGNED BY:      | L. LIU      | 2/27/15  |
| DRAWN BY:         | G. ESTEPA   | 2/27/15  |
| CHECKED BY:       | M. SOLTANI  | 2/27/15  |

SEE SHEET TTL-01 FOR HORIZONTAL AND VERTICAL CONTROL

**GENERAL PLAN**

DRAWING NO

**S-1**

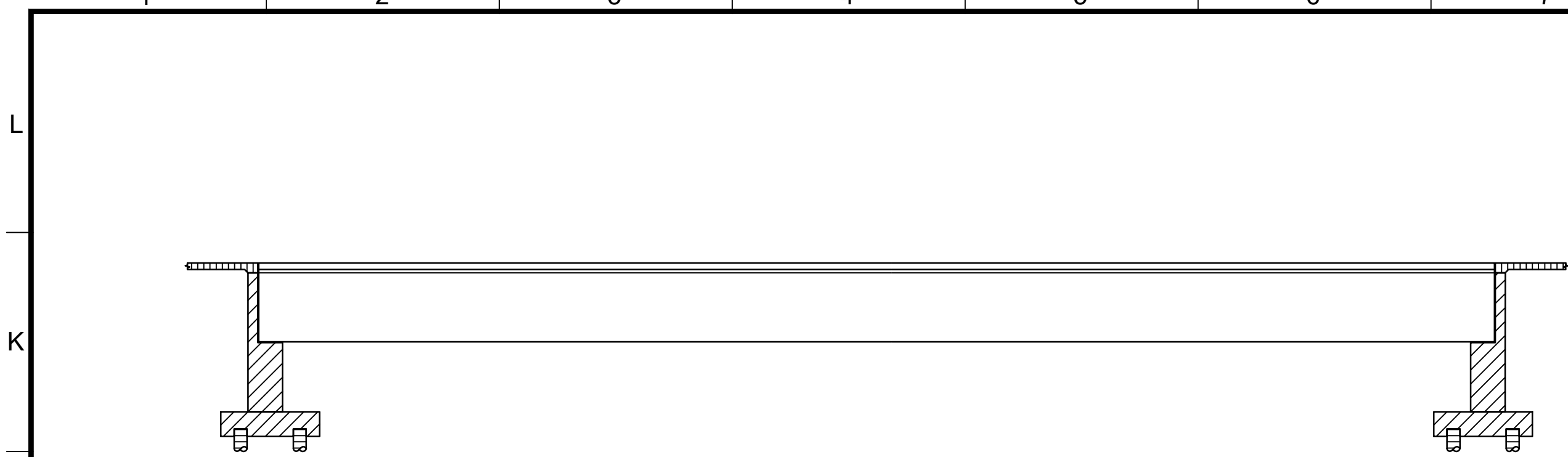
SHEET 21 OF 45 SHEETS





Z:\Dropbox\IDC\CAD\206-01-10\_Culver\_City\FINAL Bridge\5300876-a-to-dwg [Index to Plans] Wed, 12 Jun 2019, 2:38 PM - IDCNET  
THE CITY OF CULVER CITY OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES  
(DESIGN STAGE ONLY)



CONCRETE STRENGTH AND TYPE LIMITS

NO SCALE

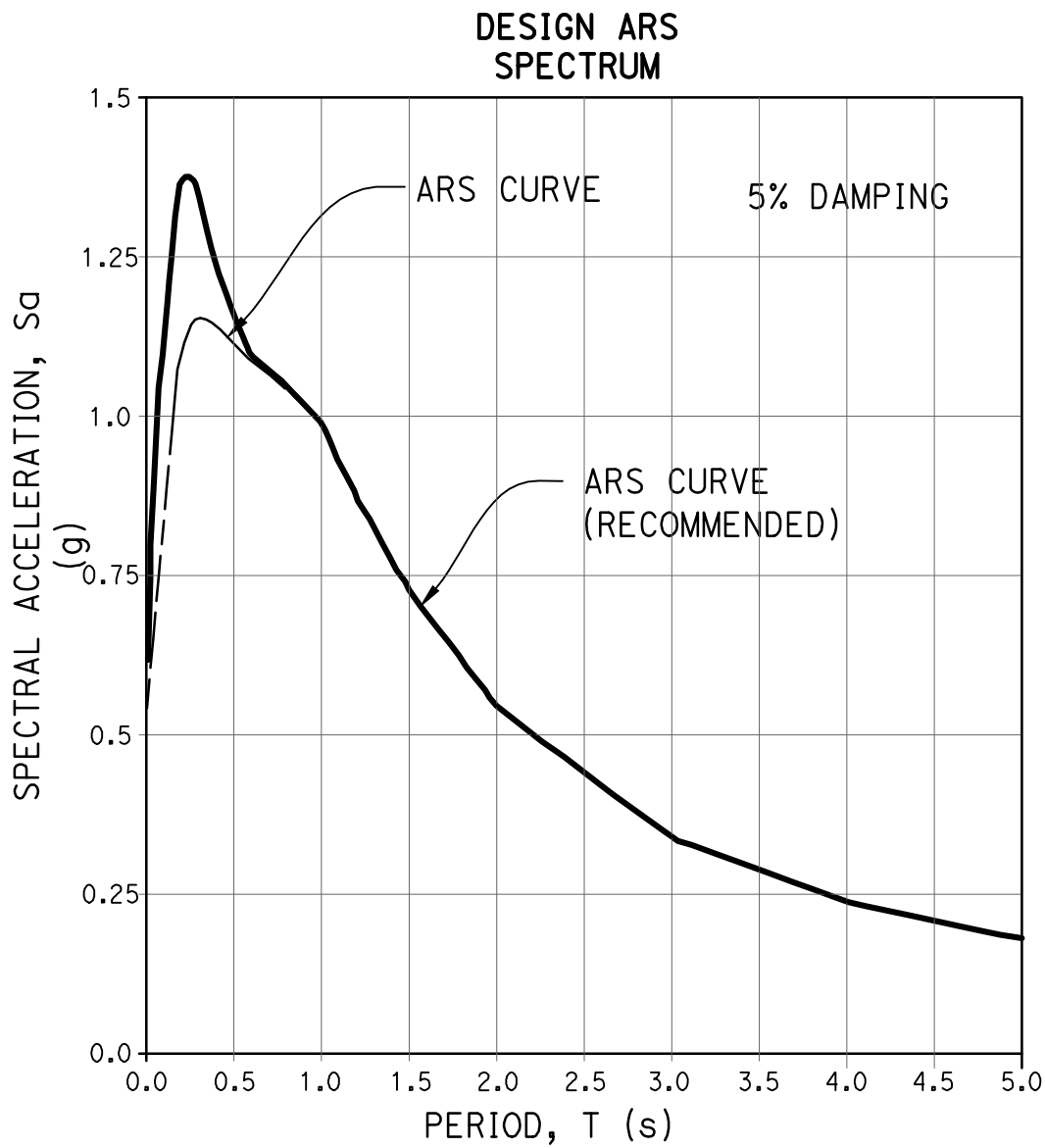
CONCRETE LEGEND:

- Structural Concrete, Bridge (6 ksi @ 28 days)
- Structural Concrete, Bridge Footing and Abutment
- Structural Concrete, Cast-in-Drilled-Hole Piles
- Structural Concrete, Approach Slab (3.6 ksi @ 28 days)

GENERAL NOTES

LOAD AND RESISTANCE FACTOR DESIGN:

- DESIGN: AASHTO LRFD Bridge Design Specification, Sixth Edition with California Amendments - 2014
- DEAD LOAD: Includes 35 psf for future wearing surface
- LIVE LOADING: HL93 with Low-boy and permit (CA-P15) Design Load and Pedestrian Load = 75 psf
- SEISMIC DESIGN: CALTRANS Seismic Design Criteria (SDC), Version 1.7 dated April 2013
- SEISMIC LOADING: Shear Wave Velocity (Vs30) = 1,090.9 ft/sec, in top 100 ft of soil  
Peak Ground Acceleration = 0.59g  
Moment Magnitude = 6.6 Max



- REINFORCED CONCRETE: fy = 60 ksi  
f'c = 4 ksi, unless noted otherwise  
N = 8

- PRESTRESSED CONCRETE: See "PRESTRESSING NOTES" on "GIRDER LAYOUT" Sheet.

HYDROLOGIC SUMMARY

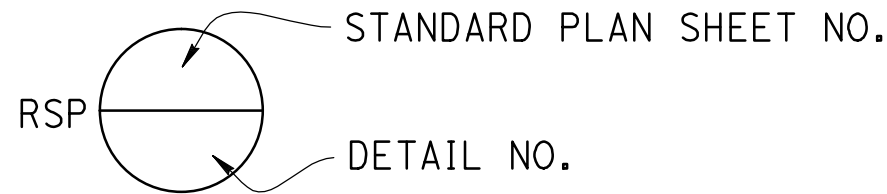
| DRAINAGE AREA: 130 SQUARE MILES                                                                                                                                                                                                                                       |            |              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|
| FREQUENCY (YEARS)                                                                                                                                                                                                                                                     | BASE FLOOD | BULKED FLOOD |
|                                                                                                                                                                                                                                                                       | 100        | -            |
| DISCHARGE<br>(CUBIC FEET PER SECOND)                                                                                                                                                                                                                                  | 30,000     | -            |
| WATER SURFACE<br>(ELEVATION AT BRIDGE; FOOT)                                                                                                                                                                                                                          | 74.3       | -            |
| FLOOD PLAIN DATA ARE BASED UPON INFORMATION AVAILABLE WHEN THE PLANS WERE PREPARED AND ARE SHOWN TO MEET FEDERAL REQUIREMENTS. THE ACCURACY OF SAID INFORMATION IS NOT WARRANTED BY THE STATE AND INTERESTED OR AFFECTED PARTIES SHOULD MAKE THEIR OWN INVESTIGATION. |            |              |

INDEX TO PLANS

| SHEET No. | TITLE                                          |
|-----------|------------------------------------------------|
| S-1       | GENERAL PLAN                                   |
| S-2       | INDEX TO PLANS, STANDARD PLANS & GENERAL NOTES |
| S-3       | GENERAL NOTES                                  |
| S-4       | DEMOLITION PLAN                                |
| S-5       | DECK CONTOUR PLAN                              |
| S-6       | FOUNDATION PLAN                                |
| S-7       | ABUTMENT 1 LAYOUT                              |
| S-8       | ABUTMENT 2 LAYOUT                              |
| S-9       | ABUTMENT DETAILS NO. 1                         |
| S-10      | ABUTMENT DETAILS NO. 2                         |
| S-11      | RETAINING WALL DETAILS NO. 1                   |
| S-12      | RETAINING WALL DETAILS NO. 2                   |
| S-13      | RETAINING WALL DETAILS NO. 3                   |
| S-14      | RETAINING WALL & RETURN WALL DETAILS           |
| S-15      | TYPICAL SECTION                                |
| S-16      | GIRDER LAYOUT                                  |
| S-17      | ADDITIONAL DECK & SOFFIT REINFORCEMENT         |
| S-18      | DECK DRAIN LAYOUT                              |
| S-19      | SLOPE PAVING                                   |
| S-20      | STRUCTURE APPROACH DRAINAGE DETAILS            |
| S-21      | STRUCTURE APPROACH TYPE N(30S)                 |
| S-22      | MISCELLANEOUS DETAILS NO.1                     |
| S-23      | MISCELLANEOUS DETAILS NO.2                     |
| S-24      | LOG OF TEST BORINGS - 1 & 3                    |
| S-25      | LOG OF TEST BORING 2                           |

CALTRANS STANDARD PLANS 2010

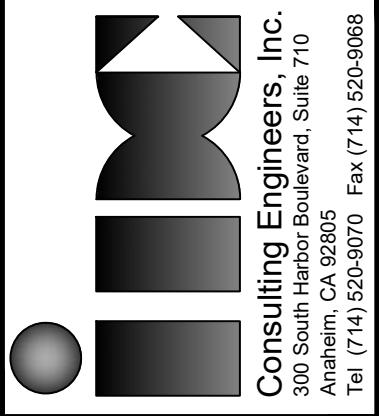
- A10A ABBREVIATIONS (SHEET 1 OF 2)
- RSP A10B ABBREVIATIONS (SHEET 2 OF 2)
- A10C LINES AND SYMBOLS (SHEET 1 OF 3)
- A10D LINES AND SYMBOLS (SHEET 2 OF 3)
- A10E LINES AND SYMBOLS (SHEET 3 OF 3)
- A10F LEGEND - SOIL (SHEET 1 OF 2)
- A10G LEGEND - SOIL (SHEET 2 OF 2)
- A62C LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
- B0-1 BRIDGE DETAILS
- B0-3 BRIDGE DETAILS
- B0-5 BRIDGE DETAILS
- B0-13 BRIDGE DETAILS
- B2-3 16" & 24" CAST-IN-DRILLED-HOLE CONCRETE PILE
- B6-21 JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
- B7-1 BOX GIRDER DETAILS
- B7-6 DECK DRAINS - TYPES D-1 AND D-2
- B7-8 DECK DRAINAGE DETAILS
- B7-10 UTILITY OPENING - BOX GIRDER
- RSP B8-5 CAST-IN-PLACE PRESTRESSED GIRDER DETAILS
- B11-51 TUBULAR HAND RAILING
- RSP B11-54 CONCRETE BARRIER TYPE 26



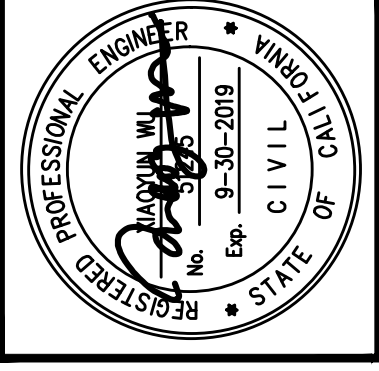
NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



|            |  |
|------------|--|
| BY:        |  |
| DATE:      |  |
| REVISIONS: |  |
| NO         |  |



Consulting Engineers, Inc.  
Professional Engineers  
Anaheim, CA 92805  
Tel (714) 920-9070 Fax (714) 920-9068



|                   |          |
|-------------------|----------|
| APPROVED          | DATE     |
| PROJECT ENGINEER: | 10/04/16 |
| DESIGNED BY:      | 22/7/15  |
| DRAWN BY:         | 22/7/15  |
| CHECKED BY:       | 22/7/15  |

|              |                                                |
|--------------|------------------------------------------------|
| SHEET TITLE: | INDEX TO PLANS, STANDARD PLANS & GENERAL NOTES |
| PROJECT:     | CULVERCITY HIGUERA STREET BRIDGE REPLACEMENT   |
| ADDRESS:     | HIGUERA STREET CULVERCITY CALIFORNIA           |

|                       |
|-----------------------|
| DRAWING NO.           |
| S-2                   |
| SHEET 22 OF 45 SHEETS |



Z:\Dropbox\IDC\CA0\206-01-10\_Culver\_City\FINAL Bridge\53-0876-a-tp1.dwg [General & Construction Notes] Wed, 12 Jun 2019, 2:39 PM - IDCNET  
THE CITY OF CULVER CITY OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.  
REVISION DATES (DESIGN STAGE ONLY)

GENERAL NOTES / NOTICE TO CONTRACTORS:

- STANDARD SPECIFICATIONS: EXCEPT FOR STRUCTURAL ITEMS OF WORK, ALL WORK SHALL CONFORM TO THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC). ALL STRUCTURAL WORK SHALL CONFORM TO THE JULY 2010 EDITION OF STANDARD SPECIFICATIONS FOR CONSTRUCTION OF LOCAL STREETS AND ROADS BY CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS).
- IMPROVEMENT CONSISTS OF WORK CALLED FOR ONLY ON THIS PLAN.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE STARTING WORK INCLUDING ORDERING OF MATERIALS. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL EXERCISE CARE THAT NO EXCAVATED MATERIAL OR DEBRIS RESULTING FROM HIS OR HER OPERATIONS IS DEPOSITED INTO THE LOS ANGELES RIVER WATER. ANY SUCH SLOUGHED MATERIAL OR DEBRIS SHALL BE REMOVED AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE.
- EXISTING TREES AND SHRUBBERY WHEN NOT IN DIRECT CONFLICT WITH CONSTRUCTION ACTIVITIES SHALL BE PROTECTED, UNLESS OTHERWISE NOTED. IF TREES OR OTHER LANDSCAPING REQUIRE REMOVAL, THEY SHALL BE REPLACED BY THE CONTRACTOR IN ACCORDANCE TO THE CITY OF LOS ANGELES' POLICIES FOR THE INSTALLATION AND PRESERVATION OF LANDSCAPING AND TREES ON PUBLIC PROPERTY AND AUTHORIZED BY THE ENGINEER.
- EXISTING IMPROVEMENTS WITHIN THE CONSTRUCTION LIMITS THAT INTERFERE WITH THE PROPOSED WORK SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR UNLESS OTHERWISE NOTED. ALL MATERIAL SUCH AS VEGETATION, TIMBER, ROCKS, CONCRETE, METAL RAILINGS, ASPHALT, AND EXCESS SOIL, SHALL BE REMOVED AND DISPOSED OFF BY THE CONTRACTOR.
- EXISTING IMPROVEMENTS REMAINING IN PLACE WHICH ARE DAMAGED BY THE CONTRACTOR'S OPERATIONS OR ARE RELOCATED TO FACILITATE THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL UTILITY COMPANIES RESPONSIBLE FOR WORK TO BE PERFORMED ON THEIR RESPECTIVE FACILITIES. IN THE EVENT THAT THE CONTRACTOR'S OPERATION REQUIRES UTILITY (INCLUDING UTILITY BOXES) RELOCATION IN ADDITION TO THAT SPECIFIED ON THE PLAN, SUCH ADDITIONAL WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- CONSTRUCTION IN CLOSE PROXIMITY TO HIGH-VOLTAGE OVERHEAD LINES SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST PROVISIONS OF ARTICLE 86, STATE OF CALIFORNIA HIGH VOLTAGE ELECTRIC SAFETY ORDER.
- EXACT LOCATIONS AND SPECIFICATIONS FOR NEW UTILITIES SHALL BE PROVIDED BY THEIR RESPECTIVE COMPANIES/AGENCIES DURING CONSTRUCTION.
- UNDERGROUND SERVICE ALERT (USA): WITHIN 10 DAYS BEFORE STARTING REMOVAL OPERATIONS OR EXCAVATION WORK, THE CONTRACTOR SHALL CALL 1-(800) 227-2600 AND OBTAIN A USA INQUIRY IDENTIFICATION NUMBER. AFTER OBTAINING THE NUMBER, REMOVALS OR EXCAVATIONS SHALL NOT PROCEED FOR TWO WORKING DAYS TO ALLOW FOR NOTIFICATION OF UTILITY OWNERS. THE NUMBER SHALL ALSO BE REPORTED TO THE INSPECTOR WHEN REQUESTING INSPECTION OF VALLEY DISPATCH (818) 989-8335. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES, WHICH HAVE BEEN MARKED BY THEIR RESPECTIVE OWNERS, AND COORDINATE THEIR RELOCATION DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS TO PROTECT AND MAINTAIN CONTINUOUS SERVICE OF OVERHEAD UTILITY LINES. ANY NECESSARY POTHOLES AND RELOCATION OF OVERHEAD UTILITY LINES SHALL BE AT THE CONTRACTOR'S EXPENSE.
- ALL EXISTING SUBSTRUCTURE LOCATIONS AND ELEVATIONS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS AND LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. ALL SUBSTRUCTURE SHALL BE PROTECTED AND/OR SUPPORTED PER STD PLAN S-253-0 AND S-255-1.
- THE CONTRACTOR, IN CONFORMANCE WITH THE LOS ANGELES CITY ORDINANCE 150478, SHALL POTHOLE EXISTING LIVE AND ABANDONED SUBSURFACE INSTALLATIONS CARRYING OR KNOWN TO HAVE CARRIED UNSTABLE SUBSTANCE TO DETERMINE THEIR LOCATIONS AND ELEVATIONS PRIOR TO COMMENCING EXCAVATION. NO POWER TOOLS PERMITTED, EXCEPT TO BREAK PAVEMENT.
- ALL CONDITIONS OF THE UNITED STATES ARMY CORPS OF ENGINEERS PERMIT AND THE LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD CERTIFICATION SHALL BE COMPLIED WITH.
- FOR USE OF EXISTING RAMPS (UPSTREAM OR DOWNSTREAM) DOWN TO THE CHANNEL FLOOR, THE CONTRACTOR SHALL CONTACT LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AT (626) 458-6177 OR (818) 896-0594 TO OBTAIN APPROVAL. THE WATER LEVEL IN CHANNEL WILL VARY OVER TIME. THIS UNKNOWN OR THE NEED TO FORECAST IS AT THE CONTRACTOR'S RISK.
- ALL PROVISIONS OF THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PERMIT SHALL BE COMPLIED WITH. THE CONTRACTOR SHALL NOT ENTER THE LOS ANGELES RIVER AT ANY TIME DURING THE RAINY SEASON (OCTOBER 15TH THROUGH APRIL 15TH) WITHOUT PRIOR NOTICE AND AUTHORIZATION BY THE ENGINEER.
- COMPACTION EQUIPMENT USED TO PLACE BACKFILL BEHIND CHANNEL WALL MUST NOT EXCEED 35,000 POUNDS INCLUDING DYNAMIC FORCE FROM VIBRATOR COMPACTOR. A DISTANCE OF EQUAL TO TWICE OF THE WALL HEIGHT OR MINIMUM 20 FEET SHALL BE MAINTAINED TO THE EXISTING WALLS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL RIGHTS TO USE PROPERTIES OUTSIDE THE PUBLIC RIGHT-OF-WAY AND TEMPORARY EASEMENTS, WHICH HE DEEMS NECESSARY TO PERFORM ANY OF THE WORK UNDER THIS CONTRACT AT NO ADDITIONAL COST TO THE CITY.
- REFERENCE PLANS: COPIES OF THE FOLLOWING PLANS MAY BE OBTAINED FROM CITY OF LOS ANGELES CENTRAL RECORDS, 1149 SOUTH BROADWAY STREET , LOS ANGELES, CA 90015. (AS-BUILT PLAN DESIGNATION - EXISTING BRIDGE.)
- IN ADDITION TO SIGNS REQUIRED BY THE PROVISIONS OF THE "WORK AREA TRAFFIC CONTROL HANDBOOK", 2012 EDITION, SIGNS FOR GIVING ADVANCE NOTICE TO MOTORISTS OF TRAFFIC DISRUPTION MUST BE FURNISHED AND PLACED AS A PART OF THIS PROJECT IN ACCORDANCE WITH STANDARD PLAN S-791-1. ALL COST INCURRED IN FURNISHING, INSTALLING AND REMOVING THE SIGNS SHALL BE INCLUDED IN OTHER ITEMS FOR WHICH BIDS ARE ENTERED. USE TYPE 1 CREDIT SIGN.

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FUGITIVE DUST AND CONSTRUCTION EMISSION REGULATIONS SPECIFIED BY THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT.
- ALL WORK SHALL CONFORM TO STANDARD SPECIFIED IN THE WORK AREA TRAFFIC CONTROL HANDBOOK AND SHALL BE CONSISTENT WITH THE APPROVED TRAFFIC MANAGEMENT PLAN.
- NO NON-RUBBER-TIRED CONSTRUCTION EQUIPMENT OR STOCKPILES OF MATERIAL SHALL BE PLACED WITHIN THE CHANNEL DURING CONSTRUCTION.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITY LINE BETWEEN THE BRIDGE GIRDERS.
- NO WORK WILL BE PERMITTED BETWEEN DECEMBER 1 AND THE END OF THE FIRST WEEK IN JANUARY OF THE FOLLOWING YEAR. ALL SIDEWALK, TRAFFIC LANES AND PARKING LANES, INCLUDING THOSE ON ADJOINING SIDE STREETS, SHALL BE CLEAR OF ALL OBSTRUCTIONS AND OPEN TO TRAFFIC DURING THIS PERIOD. THE CONTRACTOR SHALL PROTECT ALL UNCOMPLETED WORK AND TAKE ANY NECESSARY CORRECTIVE ACTIONS TO ALLOW SAFE AND FREE FLOW OF BOTH PEDESTRIAN AND VEHICULAR TRAFFIC DURING THE HOLIDAY SEASON.
- AT LEAST TEN (10) DAYS BEFORE THE START OF CONSTRUCTION, THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ABUTTING PROPERTY OWNERS OR OCCUPANTS OF THE PROPOSED CONSTRUCTION START AND COMPLETION DATES.
- SCRRA IS NOT A MEMBER OF DIGALERT. THE CONTRACTOR SHALL CALL SCRRA'S SIGNAL DEPARTMENT AT (909) 859-4100 A MINIMUM OF 72-HOURS PRIOR TO BEGINNING CONSTRUCTION TO MARK SIGNAL AND COMMUNICATION CABLES AND CONDUITS. TO ASSURE CABLES AND CONDUITS HAVE BEEN MARKED, NO WORK MAY PROCEED UNTIL YOU HAVE BEEN PROVIDED WITH AN SCRRA DIG NUMBER. IN CASE OF SIGNAL EMERGENCIES OR GRADE CROSSING PROBLEMS, THE CONTRACTOR SHALL CALL SCRRA'S 24-HOUR SIGNAL EMERGENCY NUMBER 1-888-446-9721.
- NO EQUIPMENT IN EXCESS OF H-20 HIGHWAY LOADING WILL BE PERMITTED TO OPERATE ON THE INVERT OF THE CHANNEL. ONLY RUBBER-TIRED, LEGALLY LOADED EQUIPMENT SHALL BE OPERATED ON THE EXPOSED CHANNEL INVERT. IF STEEL CRAWLER TYPE EQUIPMENT IS USED, WOODEN MATTING SHALL BE PROVIDED OVER THE INVERT IN THE OPERATING AREA. LOADS FROM TRUCK VEHICLES SHALL NOT EXCEED 300 PSF ON A SURFACE AT THE BOTTOM OF THE INVERT SLAB.
- PROVISION SHALL BE MADE TO PREVENT DEBRIS FROM FALLING INTO CHANNEL DURING CONSTRUCTION.

CONSTRUCTION NOTES:

SITE WORK

- ALL FOUNDATIONS SHALL BE POURED AGAINST UNDISTURBED EARTH OR COMPACTED FILL. THE CITY OF CULVER CITY SHALL INSPECT ALL FOUNDATION SOIL PRIOR TO PLACING REINFORCING STEEL.
- ALL EXCAVATION, REMOVAL, AND RECOMPACTION OF SOIL, DEWATERING, AND PILE INSTALLATION SHALL CONFORM TO THE RECOMMENDATIONS OF THE SOIL REPORT BY HUSHMAND ASSOCIATES, INCORPORATED DATED FEBRUARY 2, 2015.
- THE CITY OF CULVER CITY OR ENGINEER SHALL INSPECT AND APPROVE ALL EXCAVATIONS, PILE HOLE DRILLING, SHORING INSTALLATIONS, BACKFILL MATERIALS, AND BACKFILLING PROCEDURES.
- ALL BACKFILL SHALL BE MECHANICALLY COMPACTED TO A DENSITY OF AT LEAST EQUAL TO 95 PERCENT OF THE MAXIMUM DENSITY OBTAINED BY THE ASTM D1557-58T METHOD OF COMPACTION, UNLESS OTHERWISE SPECIFIED. JETTING IS NOT PERMITTED.
- THE CONTRACTOR SHALL INCLUDE IN HIS/HER BID, ALL COSTS TO DIVERT AND DEWATER THE SITE FOR CONSTRUCTION ACTIVITIES INCLUDING:
  - RESTORATION OF CHANNEL FLOOR, WALL OR SLOPE IN KINDS
  - MAINTENANCE FOR SATISFACTORY OPERATION THROUGHOUT CONSTRUCTION
  - INCORPORATION OF LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PERMIT REQUIREMENTS
- TEMPORARY CUT SLOPES ARE TO BE MADE ONLY AFTER DEWATERING IS COMPLETED.
  - TEMPORARY CUT SLOPE \_\_\_\_\_ 1 : 1 (HORIZONTAL TO VERTICAL)
  - MAXIMUM UNSHORED EXCAVATION \_\_\_\_\_ 5 FT
- ALL SHORING DESIGN AND INSTALLATION ARE THE RESPONSIBILITY OF THE CONTRACTOR. SHORING DESIGN AND INSTALLATION SHALL COMPLY WITH APPLICABLE SAFETY REGULATIONS. REFER TO SOIL REPORT.
- PERMANENT CUT AND FILL SLOPES SHALL MATCH EXISTING ADJACENT SLOPES. CHANNEL WALL SHALL BE RESTORED TO ITS ORIGINAL CONDITION AFTER CONSTRUCTION OF NEW SUBSTRUCTURES.
- NO EQUIPMENT IN EXCESS OF H-10 HIGHWAY LOADING (AASHTO) AND NO STOCKPILING OF MATERIAL WILL BE PERMITTED ALONG THE CHANNEL WITHIN A DISTANCE OF ONE-HALF WALL LENGTH.

CONCRETE REMOVAL NOTES

- WHERE A SECTION OF AN EXISTING STRUCTURE IS TO BE SEPARATED FROM A NEW STRUCTURE, AND THE REINFORCEMENT IS TO BE CUT AT THE POINT OF SEPARATION, THE CONTRACTOR SHALL SAWCUT THROUGH THE WALL WITH AN APPROVED CONCRETE SAW. ANY SAW CUT OR IRREGULARITIES IN THE SURFACE OF THE REMAINING WALL OR JOINT SHALL BE FILLED WITH AN EPOXY GROUT MIXTURE TO OBTAIN A SMOOTH PLANE SURFACE. THE REINFORCING STEEL EXPOSED BY CONCRETE REMOVAL SHALL BE BURNED OFF ONE (1) INCH BELOW THE SURFACE OF THE REMAINING CONCRETE AND THE RESULTING VOIDS SHALL BE PATCHED WITH EPOXY ADHESIVE. EPOXY SHALL BE COMMERCIAL QUALITY, TWO-COMPONENT MIXTURE, SPECIALLY MANUFACTURED FOR THE INTENDED PURPOSE, AND BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. ONE-HALF INCH THICK PREMOLDED EXPANSION JOINT MATERIAL SHALL BE USED TO SEPARATE THE FACES OF THE EXISTING AND NEW WALL/PIER.
- WHERE REINFORCEMENT IS REQUIRED TO EXTEND THROUGH THE NEW JOINT, CONCRETE SHALL BE REMOVED IN THE FOLLOWING SEQUENCE.
  - A SAW CUT SHALL BE MADE ONE AND ONE-HALF INCHES DEEP AT THE REMOVAL LIMITS. CARE SHALL BE EXERCISED IN SAWING AT THE REMOVAL LIMITS SO AS NOT TO CUT THE REINFORCING STEEL IN THE REMAINING SLAB. THE EXISTING REINFORCING STEEL SHALL BE RETAINED AND EXTENDED INTO THE NEW CONSTRUCTION AS INDICATED ON THE PLANS.
  - USING HANDHELD EQUIPMENT, THE CONCRETE SHALL BE CAREFULLY REMOVED FOR THE FULL DEPTH OF THE WALL OR SLAB AND FOR A MINIMUM DISTANCE FROM THE SAWCUT EQUAL TO THE LONGEST EXTENSION OF THE EXISTING BARS TO BE EXTENDED INTO THE NEW CONSTRUCTION. THIS EXTENSION SHALL BE 30 BAR DIAMETERS, UNLESS OTHERWISE SHOWN.
  - EXISTING REINFORCEMENT SHALL BE CUT TO THE REQUIRED BAR EXTENSION.
  - THE REMAINING CONCRETE MAY BE REMOVED BY ANY SUITABLE METHOD UPON APPROVAL OF THE ENGINEER, WHO SHALL BE THE SOLE JUDGE OF THE USE OF ANY CONCRETE REMOVAL EQUIPMENT. EXPLOSIVES, WRECKING BALL, OR OTHER SIMILAR DEVICES, WHICH ARE LIKELY TO DAMAGE THE CONCRETE TO BE LEFT IN PLACE, SHALL NOT BE USED.

DECK CONCRETE NOTES

- DECK CONCRETE SHALL NOT BE PLACED UNTIL ALL INTERMEDIATE DIAPHRAGMS HAVE BEEN CONSTRUCTED.
- DECK CONCRETE BETWEEN EXPANSION JOINTS, EXCEPT CLOSURE POUR, SHALL BE PLACED AS A SINGLE POUR WITHIN THE SAME WORK DAY.
- CLOSURE POUR BETWEEN EXPANSION JOINTS SHALL BE PLACED AS A SINGLE POUR WITHIN THE SAME WORK DAY.
- FINISH MACHINE FOR DECK CONCRETE SHALL BE INSPECTED AND SET UP 24 HOURS IN ADVANCE OF POUR.
- TRANSVERSE DECK CONSTRUCTION JOINTS SHALL NOT BE PERMITTED.
- LONGITUDINAL DECK CONSTRUCTION JOINTS ARE ALLOWED SUBJECT TO THE APPROVAL OF THE ENGINEER.
- REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS.
- REFER TO THE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
- DURING PLACEMENT OF DECK CONCRETE, EXCEPT THAT IN DECK CLOSURE POUR, REINFORCEMENTS PROTRUDING FROM THE NEW DECK INTO THE CLOSURE SPAN SHALL BE COMPLETELY FREE OF CONTACT WITH EXISTING STRUCTURE.
- DURING CLOSURE POUR, THE BRIDGES SHALL BE LIMITED TO TRAFFIC MOVING AT 10 MPH TO AVOID VIBRATIONS. THE CONTRACTOR SHALL COORDINATE AND PERFORM ALL DETOURS TO THE SATISFACTION OF LOS ANGELES DEPARTMENT OF TRANSPORTATION.
- FALSEWORK SHALL NOT BE RELEASED LESS THAN 28 DAYS AFTER THE LAST CONCRETE HAS BEEN PLACED. THE CLOSURE POUR CONCRETE SHALL BE PLACED A MINIMUM OF 14 DAYS AFTER THE FALSEWORK HAS BEEN RELEASED.

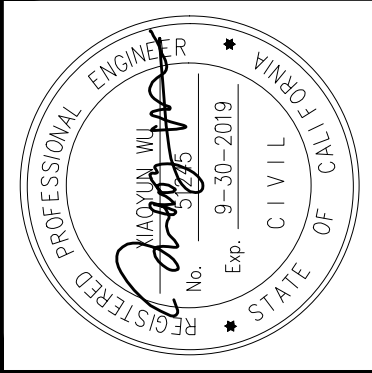
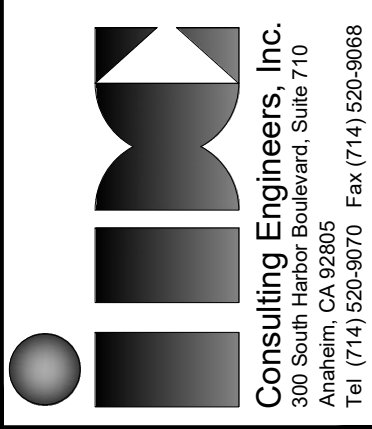
S. CALIFORNIA AREA CHANNEL DESIGN CAPACITY REQUIREMENTS

IN ORDER TO ASSURE THAT THE REPLACEMENT OF THE BRIDGE DOES NOT REDUCE CHANNEL DESIGN CONVEYANCE CAPACITY, THE FOLLOWING MINIMUM CHANNEL CAPACITIES ARE REQUIRED:

- FROM 15 APRIL TO 31 MAY AND 1 SEPTEMBER TO 15 OCTOBER, 33.3% OF THE ORIGINAL CHANNEL DESIGN CAPACITY MUST BE PRESERVED.
- FROM 15 OCTOBER TO 15 APRIL, 100% OF THE ORIGINAL CHANNEL DESIGN CAPACITY MUST BE PRESERVED; i.e. NO WORK IN THE CHANNEL WILL BE ALLOWED UNLESS A WAIVER IS OBTAINED THROUGH THE LOS ANGELES DISTRICT CORPS OF ENGINEERS' ENGINEERING DIVISION.
- FROM 1 JUNE TO 31 AUGUST, 5% OF THE ORIGINAL CHANNEL DESIGN CAPACITY IS REQUIRED.
- IN THE EVENT THAT THE PERMIT APPLICANT PROPOSES TO AFFECT A SECTION OF THE CHANNEL THAT IS THE DOWNSTREAM OF A CORPS REGULAR FLOOD CONTROL BASIN, THE APPLICANT MUST AS A MINIMUM, COORDINATE THEIR-IN CHANNEL ACTIVITIES WITH THE CORPS OF ENGINEERS' RESERVOIR REGULATION SECTION.



| DATE: BY: |  | REVISIONS: |  |
|-----------|--|------------|--|
|           |  | NO         |  |



| APPROVED          |  | DATE        |  |
|-------------------|--|-------------|--|
| PROJECT ENGINEER: |  | S. SHARIFAN |  |
| DESIGNED BY:      |  | L. LIU      |  |
| DRAWN BY:         |  | G. ESTEPA   |  |
| CHECKED BY:       |  | M. SOLTANI  |  |

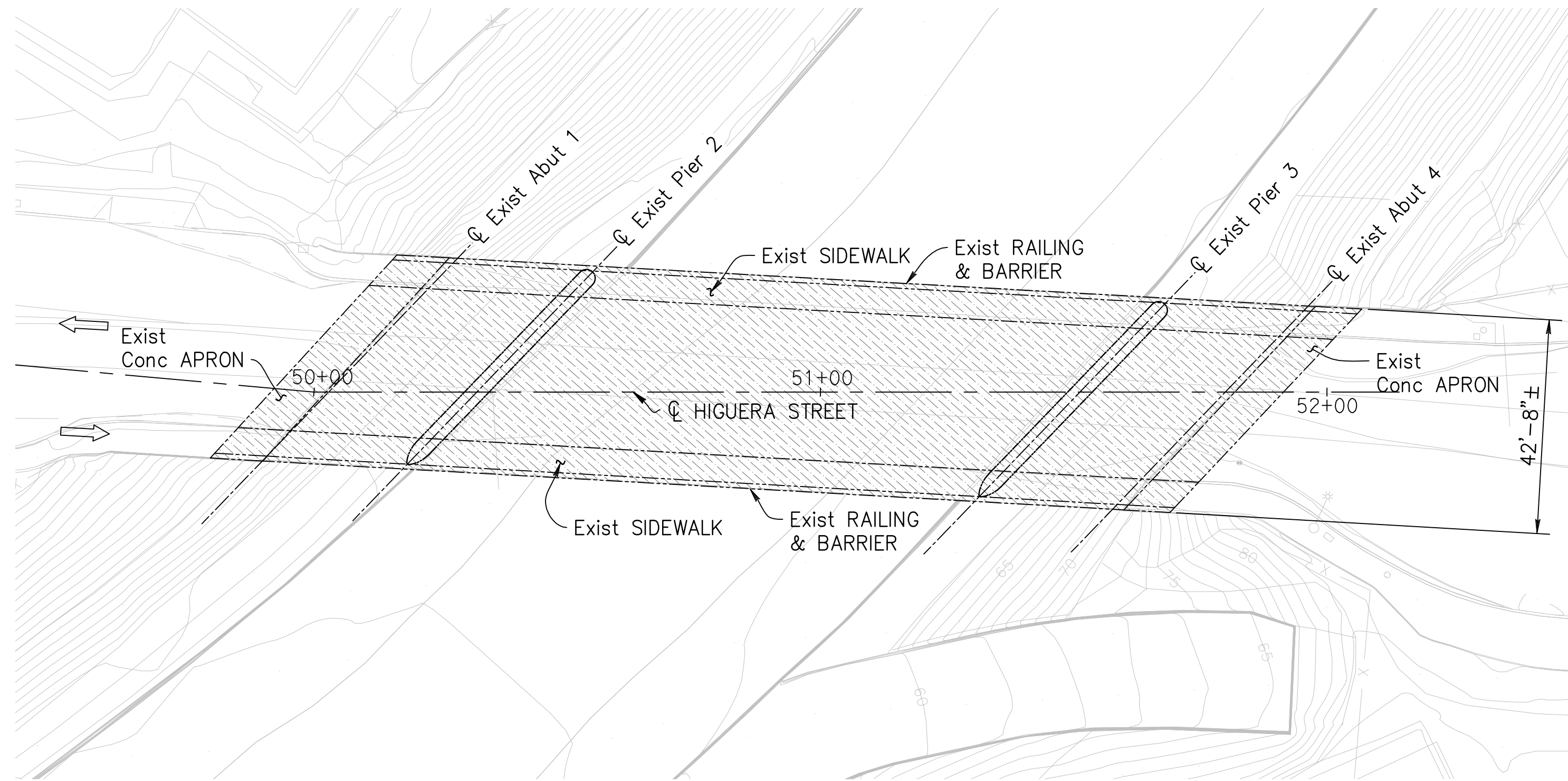
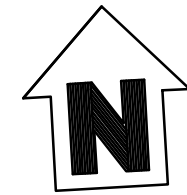
| GENERAL NOTES                                         |  |
|-------------------------------------------------------|--|
| PROJECT: CULVERCITY HIGUERA STREET BRIDGE REPLACEMENT |  |
| ADDRESS: HIGUERA STREET CULVERCITY CALIFORNIA         |  |

| DRAWING NO.           |  |
|-----------------------|--|
| S-3                   |  |
| SHEET 23 OF 45 SHEETS |  |

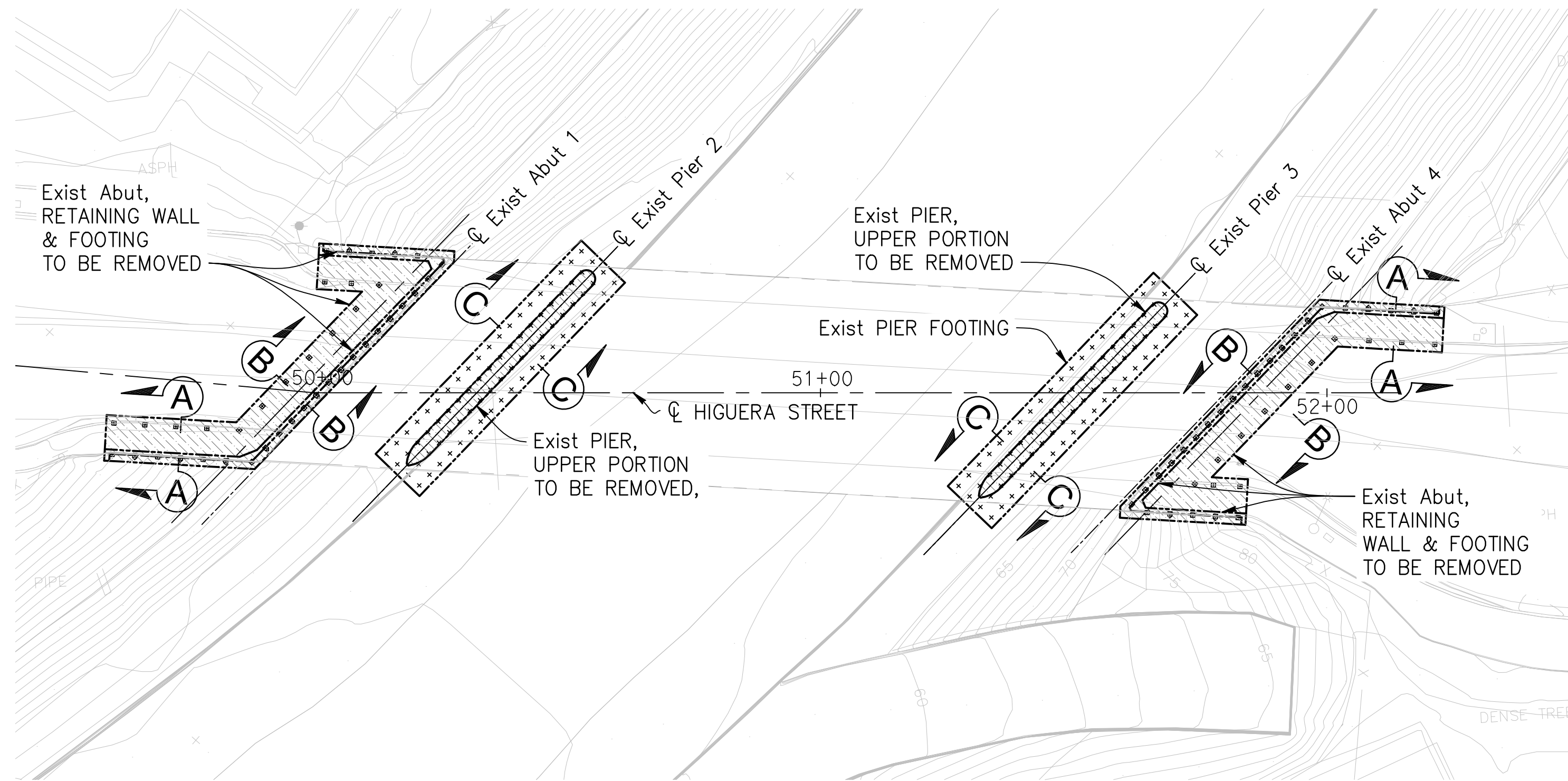
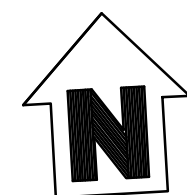


Z:\Dropbox\IDC\CAD\206-01-10\_Culver\_City\FINAL Bridge\5300876-c-demo.dwg [Bridge Demo Plan] Wed, 12 Jun 2019, 2:39 PM - IDCNET  
THE CITY OF CULVER CITY OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES  
(DESIGN STAGE ONLY)

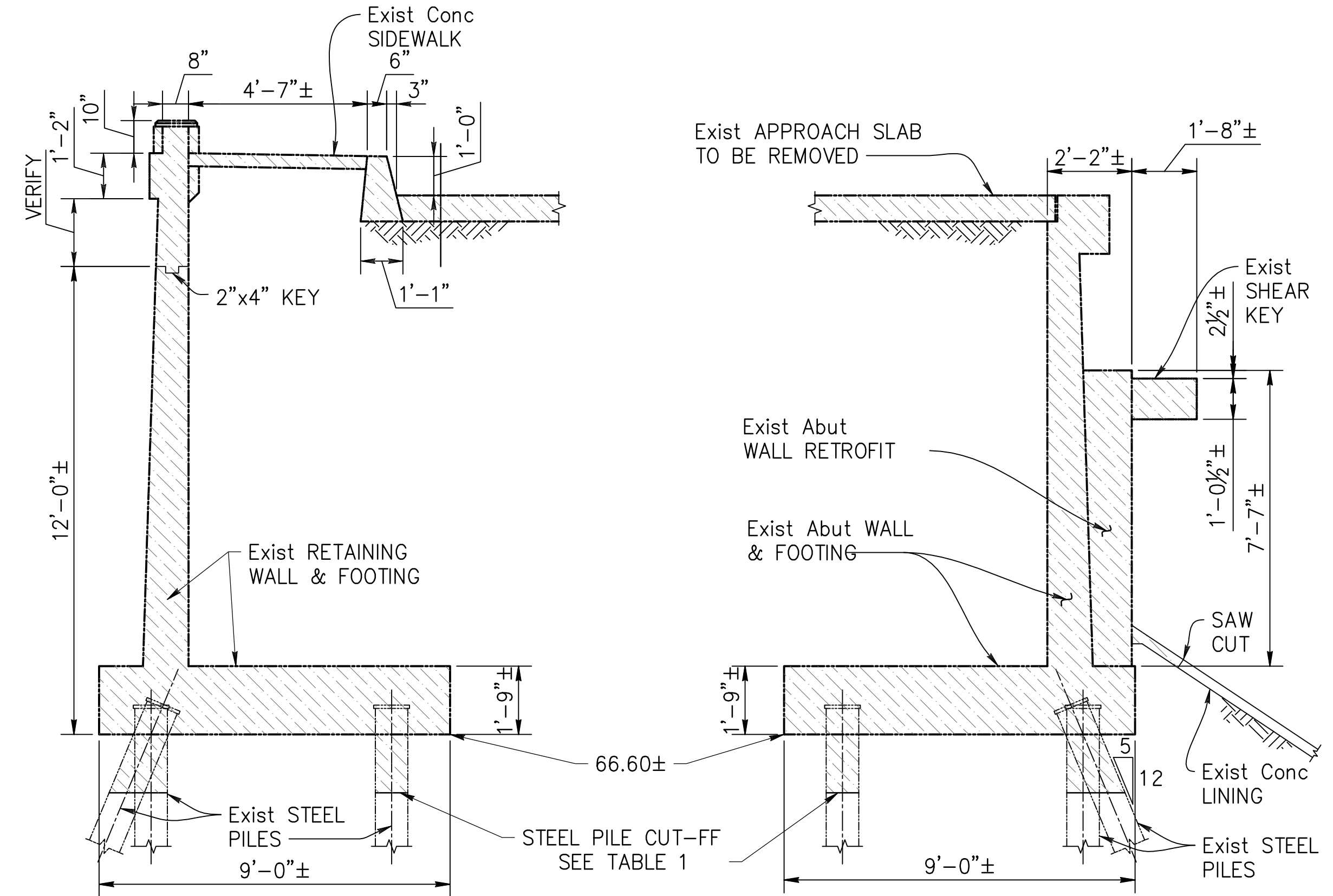


PLAN - EXIST DECK  
1" = 20'



PLAN - EXIST FOUNDATION  
1" = 20'

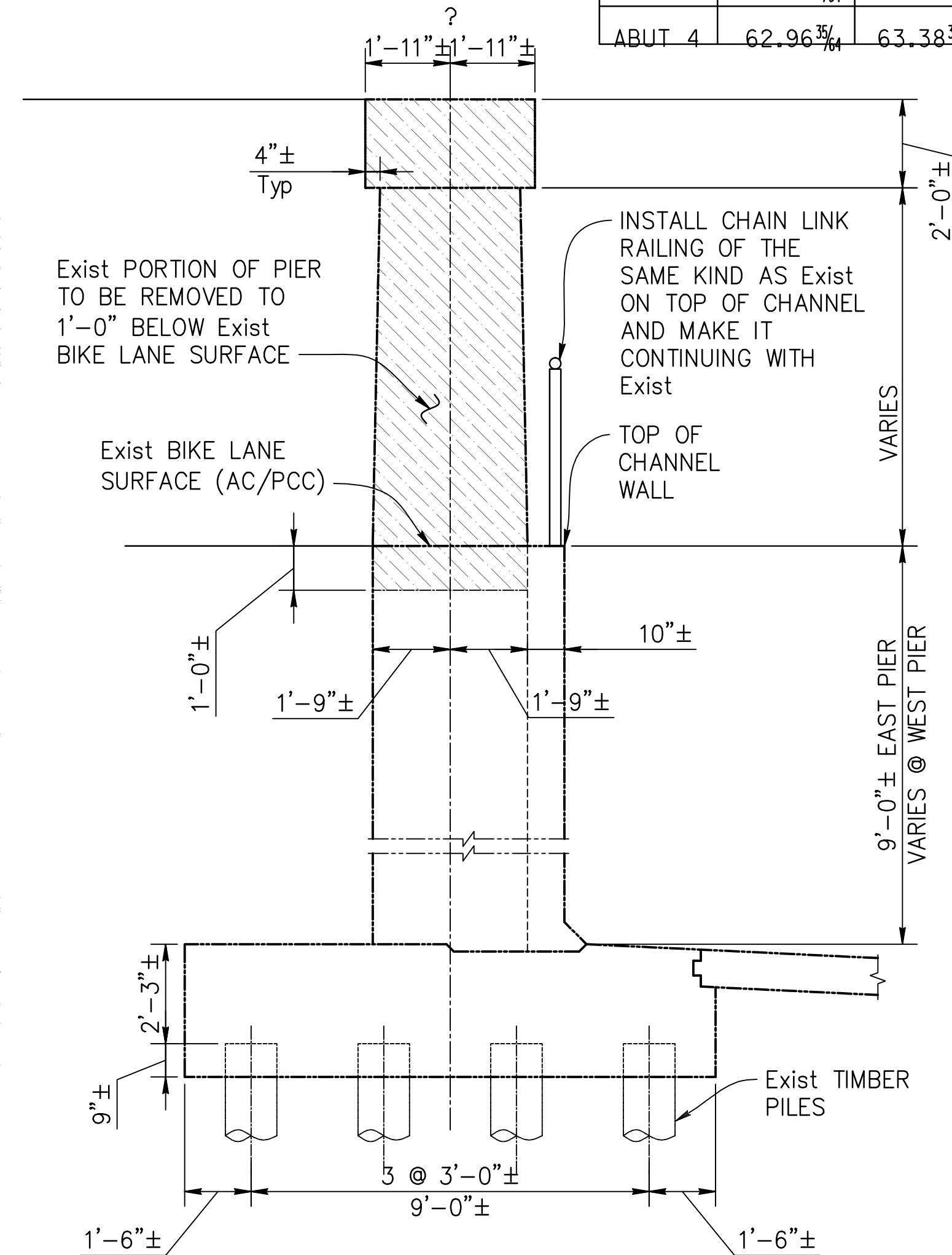
NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



SECTION A-A  
3/8" = 10'

SECTION B-B  
3/8" = 10'

|        | TABLE 1- STEEL PILE CUT-OFF         |                                     |
|--------|-------------------------------------|-------------------------------------|
|        | BEYOND NEW FTG                      | WITHIN NEW FTG                      |
| ABUT 1 | 59.46 <sup>5/8</sup> / <sub>4</sub> | 59.88 <sup>5/8</sup> / <sub>4</sub> |
| ABUT 4 | 62.96 <sup>5/8</sup> / <sub>4</sub> | 63.38 <sup>5/8</sup> / <sub>4</sub> |



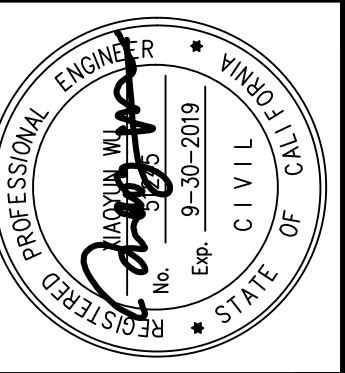
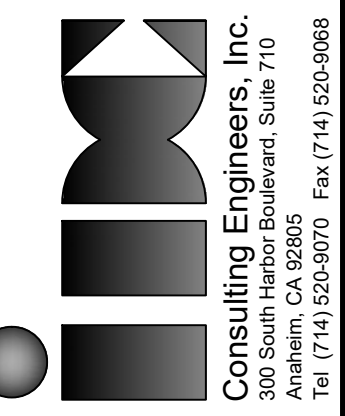
SECTION C-C  
3/8" = 10'

- LEGEND:**
- XX.XX Bottom of Footing Elevation
  - x & □ Existing Pile
  - Existing Batter Pile
  - Existing Structure Removal

- DEMOLITION NOTES:**
1. Cut Top of Existing Abutment Piles 2'-6" below Existing Footing Elevation.
  2. Remove Batter Piles if it obstructs construction of New CIDH Piles.
  3. For Existing Footing Elevations, see "FOUNDATION PLAN" Sheet.
  4. Any channel concrete lining damaged due to bridge construction/excavation shall be restored in kind. For channel concrete lining repair details, see "CONC REVETMENT/CHANNEL LINING JOINING DETAIL" on "SLOPE PAVING" Sheet.
  5. For existing bridge dimensions, details and information not shown, see As-Built plans.
  6. Contractor shall submit his/her demolition schedule, list of equipment and safety plan to Army Corps of Engineers for approval before any work on the creek begins.



| DATE:      | BY: |
|------------|-----|
|            |     |
| REVISIONS: | NO  |
|            |     |
|            |     |
|            |     |
|            |     |
|            |     |
|            |     |



| APPROVED                                                                   | DATE        |
|----------------------------------------------------------------------------|-------------|
| CHARLES D. HERBERTSON, P.E., L.S.<br>PUBLIC WORKS DIRECTOR / CITY ENGINEER | 10/04/16    |
| PROJECT ENGINEER:                                                          | S. SHARIFAN |
| DESIGNED BY:                                                               | L. LIU      |
| DRAWN BY:                                                                  | G. ESTEPA   |
| CHECKED BY:                                                                | M. SOLTANI  |

| SHEET TITLE: | DEMOLITION PLAN                                 |
|--------------|-------------------------------------------------|
| PROJECT:     | CULVERCITY HIGUERA STREET<br>BRIDGE REPLACEMENT |
| ADDRESS:     | HIGUERA STREET<br>CULVERCITY CALIFORNIA         |

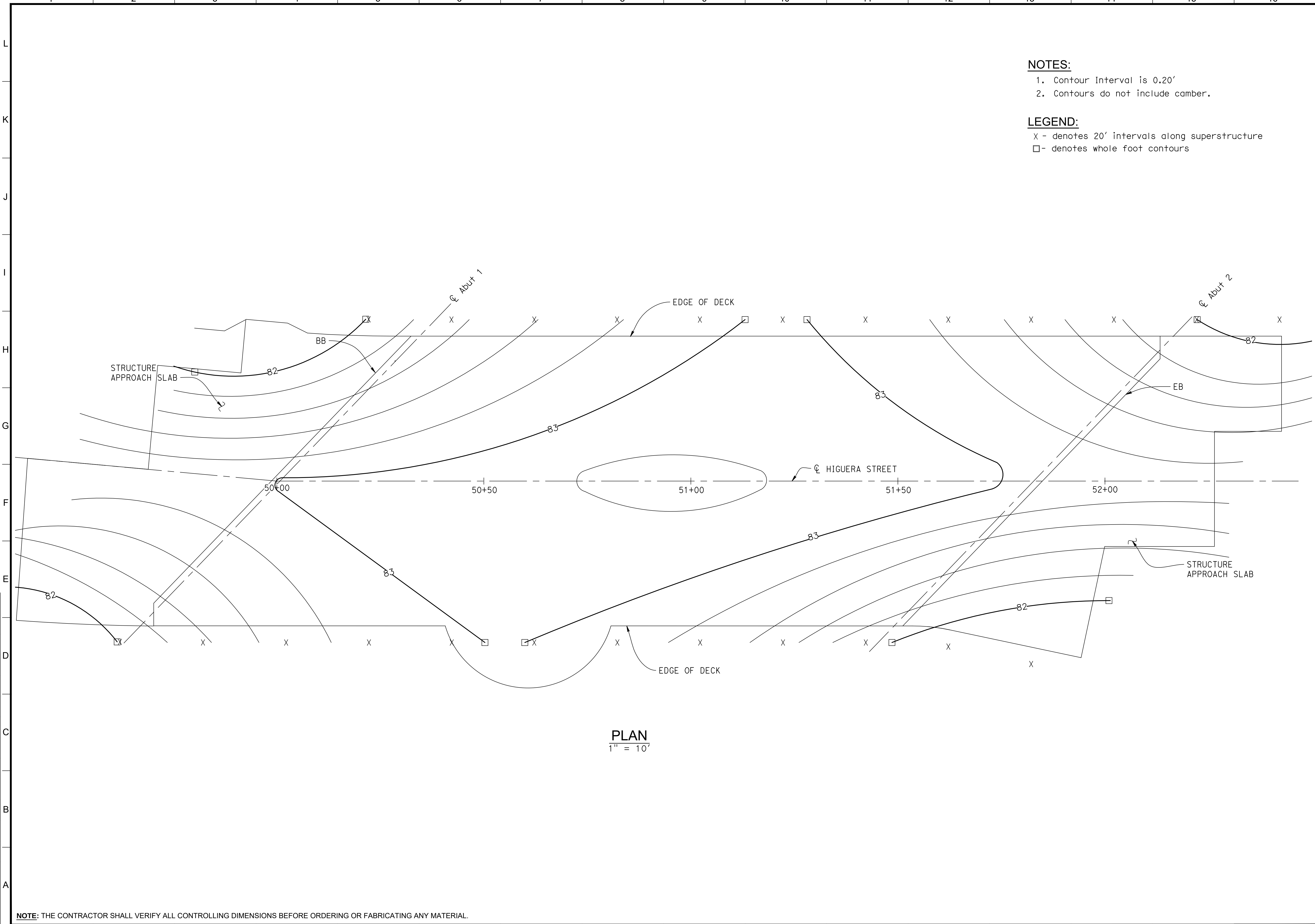
DRAWING NO.

S-4

SHEET 24 OF 45 SHEETS

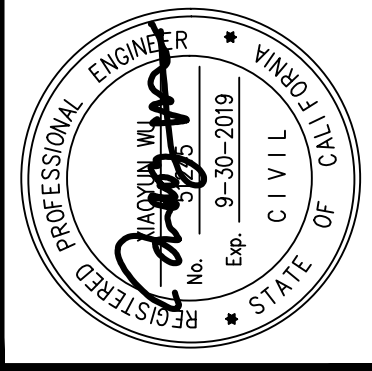
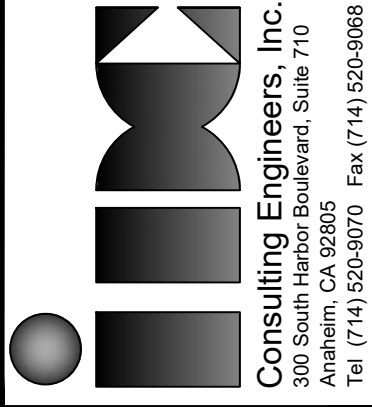


Z:\Dropbox\IDC\CAD\206-01-10\_Culver\_City\FINAL Bridge\530876-d-4c01.dwg [Deck Contour Plan] Wed, 12 Jun 2019, 2:39 PM - IDCNET  
REVISION DATES (DESIGN STAGE ONLY)  
THE CITY OF CULVER CITY OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



- NOTES:**
- 1. Contour Interval is 0.20'
  - 2. Contours do not include camber.

- LEGEND:**
- X - denotes 20' intervals along superstructure
  - - denotes whole foot contours



|                   |  |          |
|-------------------|--|----------|
| APPROVED          |  | DATE     |
| PROJECT ENGINEER: |  | 10/04/16 |
| DESIGNED BY:      |  | 2/27/15  |
| DRAWN BY:         |  | 2/27/15  |
| CHECKED BY:       |  | 2/27/15  |

|                                                       |  |
|-------------------------------------------------------|--|
| SEE SHEET TTL-01 FOR HORIZONTAL AND VERTICAL CONTROL  |  |
| SHEET TITLE: DECK CONTOUR PLAN                        |  |
| PROJECT: CULVERCITY HIGUERA STREET BRIDGE REPLACEMENT |  |
| ADDRESS: HIGUERA STREET CULVERCITY CALIFORNIA         |  |



|            |           |
|------------|-----------|
| DATE: BY:  |           |
| REVISIONS: |           |
| NO         | REVISIONS |

CITY OF CULVER CITY DEPARTMENT OF PUBLIC WORKS



Z:\Dropbox\IDC\CAD\206-01-10\_Culver\_City\FINAL Bridge\5300876-a-fp01.dwg [Foundation Plan] Wed, 12 Jun 2019, 2:40 PM - IDONT  
THE CITY OF CULVER CITY OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.  
REVISION DATES (DESIGN STAGE ONLY)

PILE DATA TABLE

| LOCATION | PILE TYPE | NOMINAL RESISTANCE |                | CUT-OFF ELEVATION (ft) | DESIGN TIP ELEVATION (ft)           | SPECIFIED TIP ELEVATION (ft) |
|----------|-----------|--------------------|----------------|------------------------|-------------------------------------|------------------------------|
|          |           | COMPRESSION (KIPS) | TENSION (KIPS) |                        |                                     |                              |
| Abut 1   | 24"Ø CIDH | 540                | N/A            | 59.71                  | -1.54 (a)                           | -1.54                        |
| Abut 2   | 24"Ø CIDH | 540                | N/A            | 63.21                  | 1.96 (a)                            | 1.96                         |
| RW 4     | 24"Ø CIDH | 480                | 40             | 67.46                  | 12.46 (a)<br>49.46 (b)<br>36.71 (c) | 12.46                        |

NOTES:  
1. Design tip elevations are controlled by the following demands : (a) Compression, (b) Tension, (c) Lateral Load, (d) Settlement.  
2. The specified tip elevations shall not be raised above the design tip elevations for lateral load. The specified tip elevation for CIDH shall not be raised.

BENCHMARKS

| NAME<br>BM No. | Elev (ft) | DESCRIPTION                                                                                                                                                                     |
|----------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Y9331          | 79.600    | Watts Quad, being RDBM tag in NE Cor C.B. @ Jefferson Bl & Hetzler Rd 12.2m (40 ft) S/O & 9.8m (32 ft) W/O Approx C/L Int having elevation value as indicated, 2005 Adjustment. |
| Y10987         | 85.247    | Watts Quad, being L&FLT HD SPK in W C.B. @ BCR @ SW Cor Jefferson Bl & Holdrege Ave (N End C.B.) having elevation value as indicated, 2005 Adjustment.                          |
| Y11349         | 99.371    | Watts Quad, being LRG SPK in C.B. @ S End C.B. 6.3m (20.7 ft) S/O BCR @ SW Cor Rodeo Rd & La Cienega Bl having elevation as indicated, 2005 Adjustment.                         |

SURVEY CONTROL:  
Horizontal control for this survey is based on the California Coordinate System, Zone 5, US Survey feet, North American Datum of NAD83 (NSRS2007).  
Vertical control is the North American Vertical Datum of 1988 (NAVD88).  
The conversion factor between (NBVD29) and (NAVD88) is 2.345 ft.

UTILITY TABLE

| UTILITY                 | OWNER                      | DISPOSITION         |
|-------------------------|----------------------------|---------------------|
| 1 8"Ø Water Line        | GOLDEN STATE WATER COMPANY | See Note            |
| 2 Telephone Line        | AT&T                       | Owner Will Relocate |
| 3 10"Ø Storm Sewer Line | TBD                        | Protect in Place    |
| 4 Overhead Power Line   | SCE                        | Protect in Place    |
| 5 12"Ø Storm Sewer Line | TBD                        | To be relocated     |
| 6 18"Ø Storm Sewer Line | TBD                        | To be relocated     |
| 7 12"Ø Water Line       | GOLDEN STATE WATER COMPANY | New                 |
| 8 18"Ø Storm Sewer Line | TBD                        | To be relocated     |
| 9 24"Ø Storm Sewer Line | TBD                        | To be relocated     |

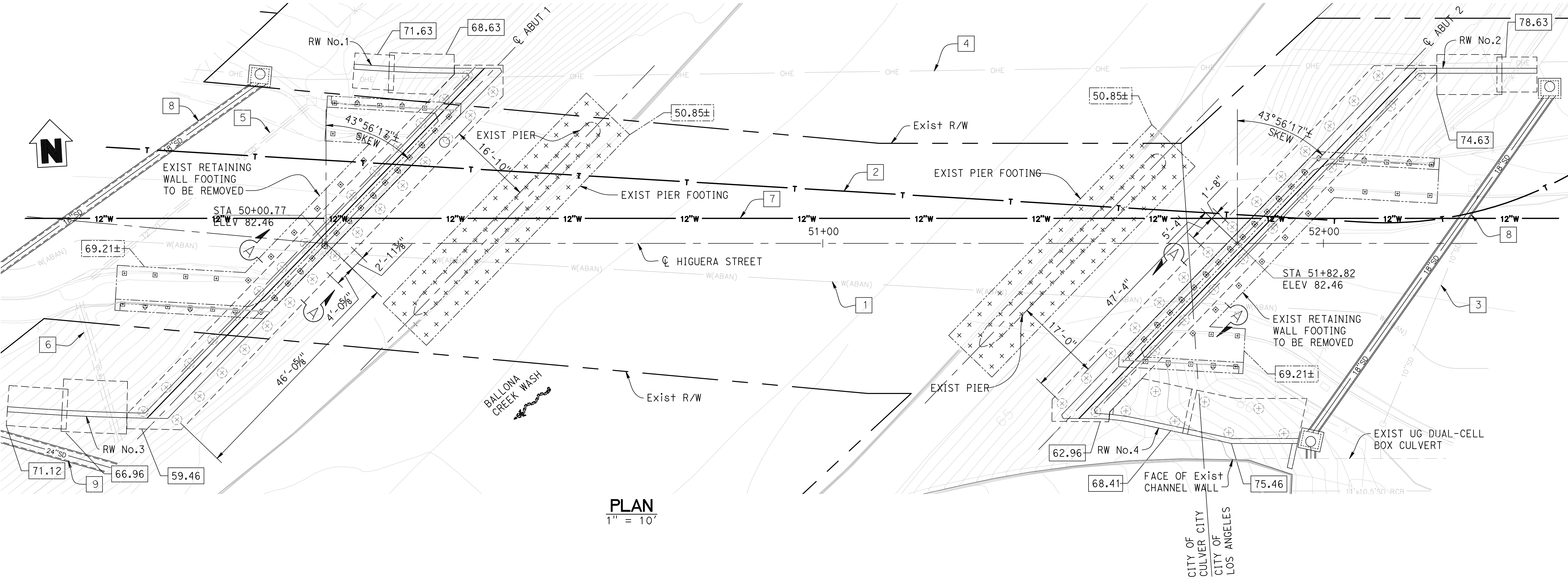
NOTE: Will be protected in place, then will be removed after Golden State Water Company abandons it.

LEGEND:

- XX.XX Denotes bottom of footing elevation  
XX.XX± Denotes Bottom of existing footing elevation  
Existing Abutment Pile  
+ Existing Pier Pile  
Existing Batter Pile  
⊕ 24"Ø CIDH Pile

NOTES:

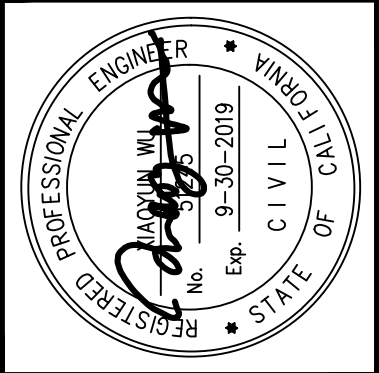
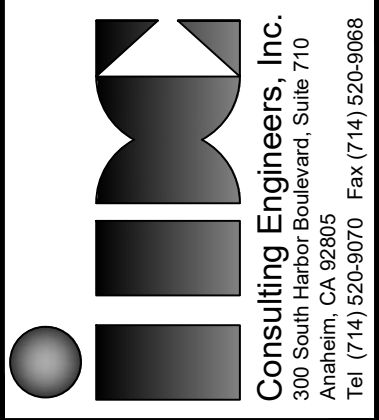
1. For Section A-A, see "ABUTMENT DETAILS NO. 1" Sheet.  
2. For RETAINING WALLS Nos. 1 & 2, see "RETAINING WALL DETAILS NO. 1" Sheet.  
3. For RETAINING WALL No. 3, see "RETAINING WALL DETAILS NO. 2" Sheet.  
4. For RETAINING WALL No. 4, see "RETAINING WALL DETAILS NO. 3" Sheet.



NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



| DATE:      |  |
|------------|--|
| REVISIONS: |  |
| NO         |  |

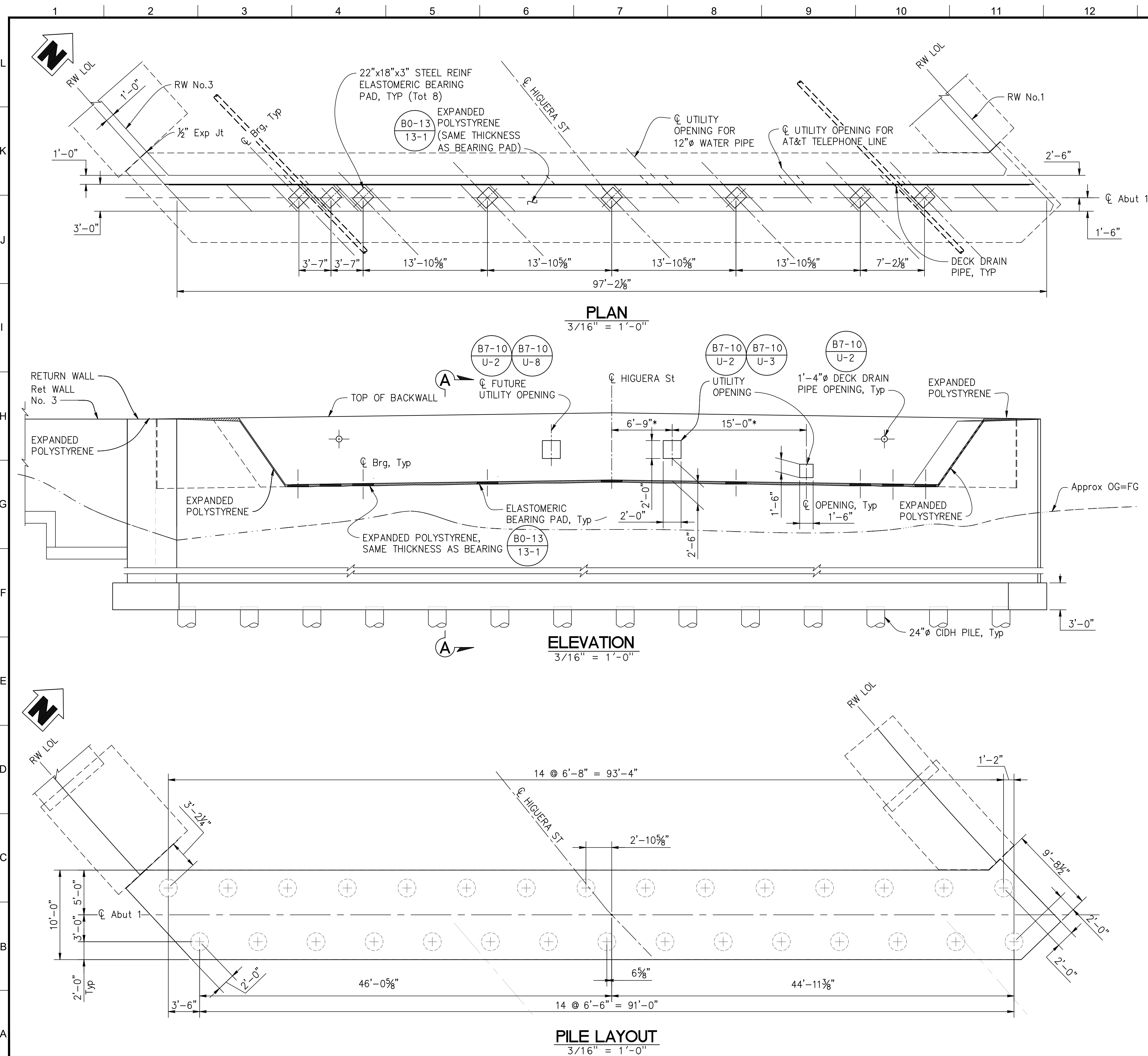


| APPROVED                      | DATE     |
|-------------------------------|----------|
| PROJECT ENGINEER: S. SHARIFAN | 10/04/16 |
| DESIGNED BY: L. LIU           | 2/27/15  |
| DRAWN BY: G. ESTEPA           | 2/27/15  |
| CHECKED BY: M. SOLTANI        | 2/27/15  |

| SHEET TITLE: | FOUNDATION PLAN                              |
|--------------|----------------------------------------------|
| PROJECT:     | CULVERCITY HIGUERA STREET BRIDGE REPLACEMENT |
| ADDRESS:     | HIGUERA STREET CULVERCITY CALIFORNIA         |

DRAWING NO.





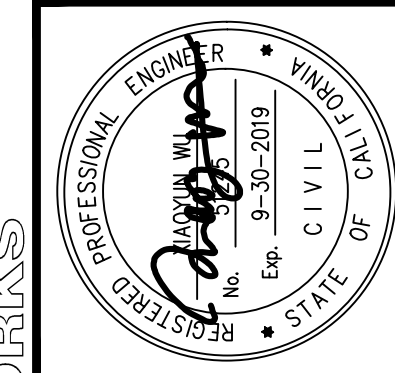
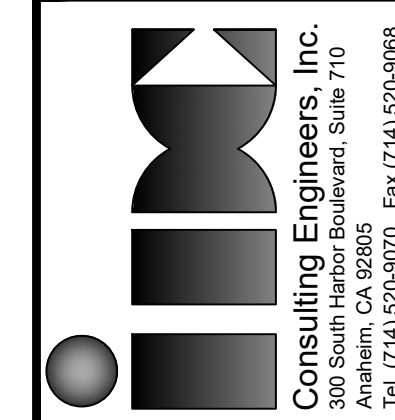
**NOTE:** THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

**LEGEND:**

- \_\_\_\_\_ New Structure  
 ⊕ Existing Pile  
 ⊕ Existing Batter Pile  
 ⊕ 24"Ø CIDH Pile  
 \* Measured along exterior face of backwall

**NOTES:**

1. For Section A-A and Bearing Details, see "ABUTMENT DETAILS No. 1" sheet.
2. For Abutment Shear Key Details, see "ABUTMENT DETAILS No. 2" sheet.
3. For Drainage Outlet Details, see "STRUCTURE APPROACH DRAINAGE DETAILS" sheet.
4. For Utility Opening, see "TYPICAL SECTION" sheet.
5. For Deck Drain Details, see "DECK DRAIN LAYOUT" sheet.
6. Any channel concrete lining damaged due to bridge construction/excavation shall be restored in kind. For channel concrete lining repair details, see "SLOPE PAVING" sheet.

[illegible]

| APPROVED _____    |             | DATE _____ |
|-------------------|-------------|------------|
| PROJECT ENGINEER: | S. SHARIFAN | 10/04/16   |
| DESIGNED BY:      | L. LIU      | 2/27/15    |
| DRAWN BY:         | G. ESTEPA   | 2/27/15    |
| CHECKED BY:       | M. SOLTANI  | 2/27/15    |

|                                                                 |
|-----------------------------------------------------------------|
| SEE SHEET T11-01 FOR HORIZONTAL AND VERTICAL CONTROL            |
| <b>SHEET TITLE:</b>                                             |
| <b>PROJECT:</b> CULVERTITY HIGUERA STREET<br>BRIDGE REPLACEMENT |
| <b>ADDRESS:</b> HIGUERA STREET<br>CULVERTITY CALIFORNIA         |

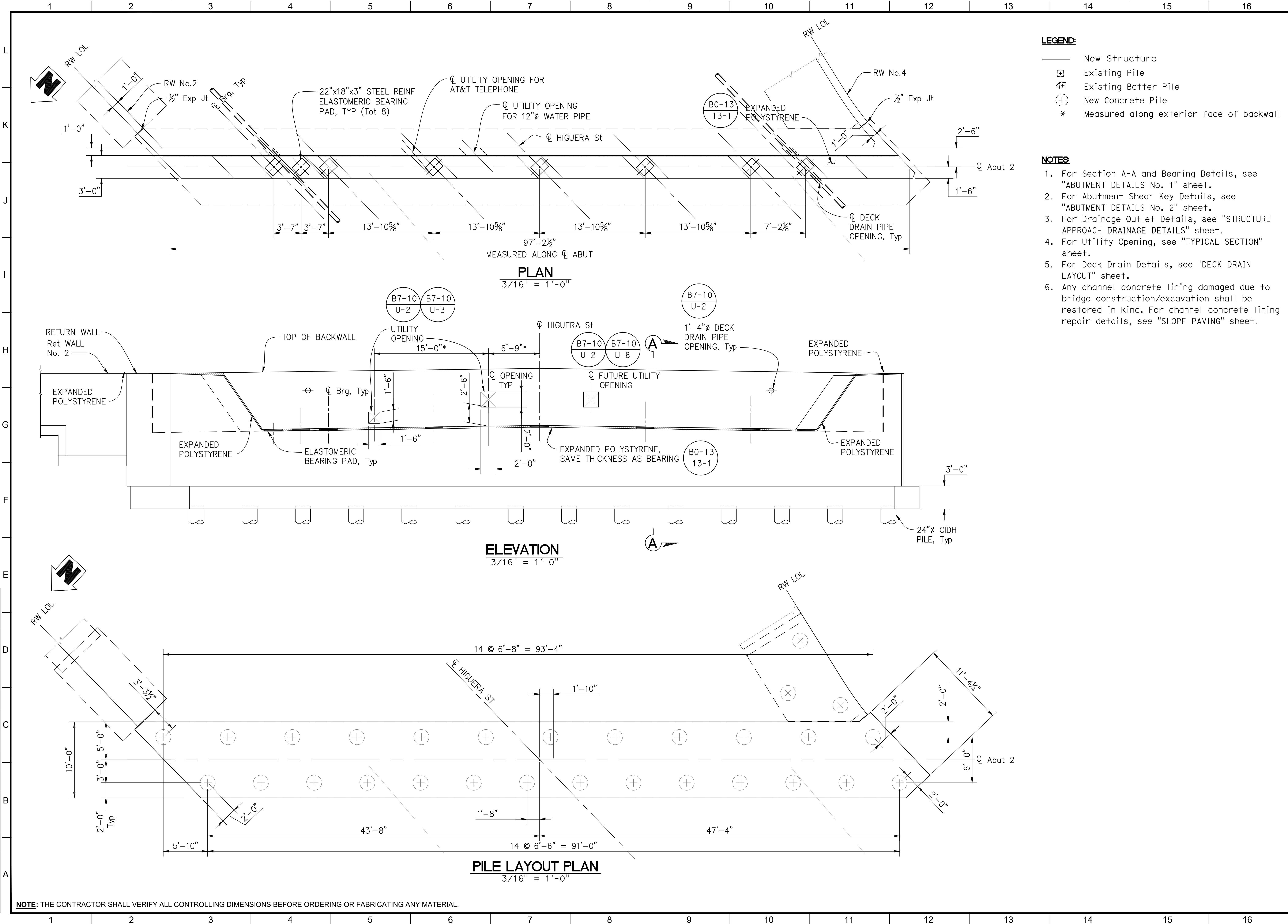
DRAWING NO.

**S-7**



Z:\Dropbox\IDC\CAD\206-01-10\_Culver\_City\FINAL Bridge\5300876-1-r02.dwg [Abut 2 Layout] Wed, 12 Jun 2019 2:41 PM - IDCNET  
THE CITY OF CULVER CITY OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES  
(DESIGN STAGE ONLY)



**LEGEND:**

- New Structure
- ⊕ Existing Pile
- ⊕ Existing Batter Pile
- ⊕ New Concrete Pile
- \* Measured along exterior face of backwall

**NOTES:**

- For Section A-A and Bearing Details, see "ABUTMENT DETAILS No. 1" sheet.
- For Abutment Shear Key Details, see "ABUTMENT DETAILS No. 2" sheet.
- For Drainage Outlet Details, see "STRUCTURE APPROACH DRAINAGE DETAILS" sheet.
- For Utility Opening, see "TYPICAL SECTION" sheet.
- For Deck Drain Details, see "DECK DRAIN LAYOUT" sheet.
- Any channel concrete lining damaged due to bridge construction/excavation shall be restored in kind. For channel concrete lining repair details, see "SLOPE PAVING" sheet.

DEPARTMENT OF PUBLIC WORKS

SEE SHEET T11-01 FOR HORIZONTAL AND VERTICAL CONTROL

SHEET TITLE: **ABUTMENT 2 LAYOUT**

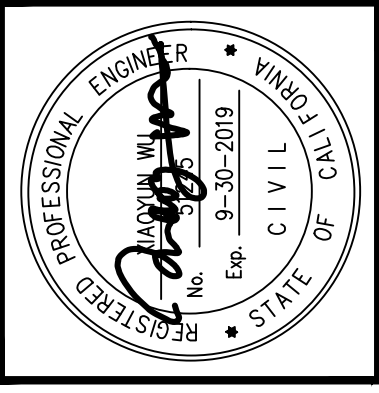
PROJECT: **CULVERCITY HIGUERA STREET BRIDGE REPLACEMENT**

ADDRESS: **HIGUERA STREET CULVERCITY CALIFORNIA**

DRAWING NO. **S-8**

SHEET 28 OF 45 SHEETS

|                                       |             |
|---------------------------------------|-------------|
| APPROVED                              | DATE        |
| PUBLIC WORKS DIRECTOR / CITY ENGINEER | 10/04/16    |
| PROJECT ENGINEER:                     | S. SHARIFAN |
| DESIGNED BY:                          | L. LIU      |
| DRAWN BY:                             | G. ESTEPA   |
| CHECKED BY:                           | M. SOLTANI  |
|                                       | 2/27/15     |
|                                       | 2/27/15     |



**Consulting Engineers, Inc.**  
10000 Wilshire Blvd., Suite 110  
Beverly Hills, CA 90210  
Tel: (714) 520-9070 Fax: (714) 520-9068

|            |  |
|------------|--|
| DATE:      |  |
| REVISIONS: |  |
| NO.        |  |
|            |  |
|            |  |
|            |  |
|            |  |
|            |  |
|            |  |
|            |  |





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

JOINT PROTECTION DETAIL

**DETAIL 1**  
1" = 1'-0"

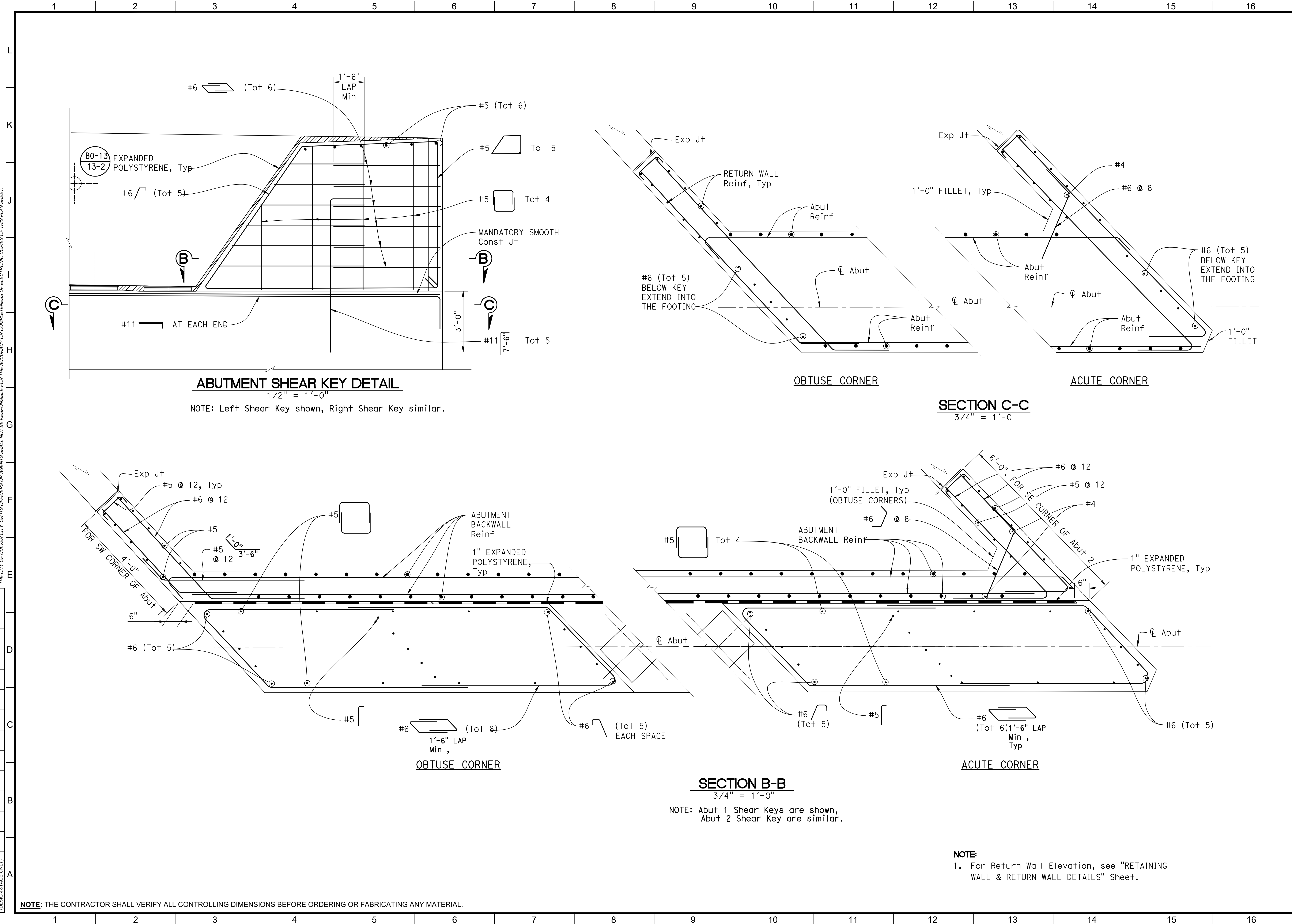
SECTION B-B  
1" = 1'-0"

1. Abutment 1 shown, Abutment 2 similar.



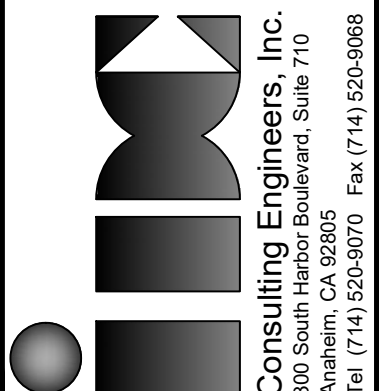
Z:\Dropbox\IDC\CAD\206-01-10\_Culver\_City\FINAL Bridge\530876-f-abut-dt02.dwg [Aut Details 2] Wed, 12 Jun 2019, 2:42 PM - IDCNET  
THE CITY OF CULVER CITY OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES  
(DESIGN STAGE ONLY)

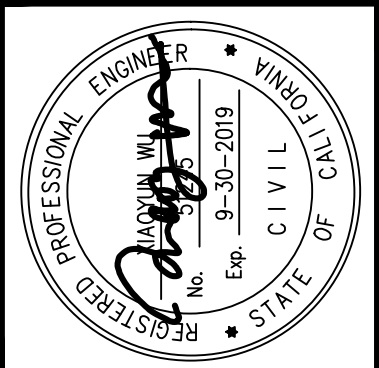




| NO | REVISIONS | DATE | BY |
|----|-----------|------|----|
|    |           |      |    |
|    |           |      |    |
|    |           |      |    |
|    |           |      |    |
|    |           |      |    |
|    |           |      |    |
|    |           |      |    |
|    |           |      |    |
|    |           |      |    |



**Consulting Engineers, Inc.**  
Professional Engineers  
11000 Wilshire Blvd., Suite 110  
Beverly Hills, CA 90210  
Tel: (714) 920-9070 Fax: (714) 920-9068



**CHARLES D. HERBERTSON, P.E., L.S.**  
PUBLIC WORKS DIRECTOR / CITY ENGINEER

| APPROVED | DATE     |
|----------|----------|
|          | 10/04/16 |

| PROJECT ENGINEER | DESIGNED BY | DRAWN BY  | CHECKED BY |
|------------------|-------------|-----------|------------|
| S. SHARIFAN      | L. LIU      | G. ESTEPA | M. SOLTANI |

| DATE | 2027/15 | 2027/15 | 2027/15 |
|------|---------|---------|---------|
|      |         |         |         |

SEE SHEET TITL-01 FOR HORIZONTAL AND VERTICAL CONTROL

**SHEET TITLE:** ABUTMENT DETAILS NO. 2

**PROJECT:** CULVERCITY HIGUERA STREET BRIDGE REPLACEMENT

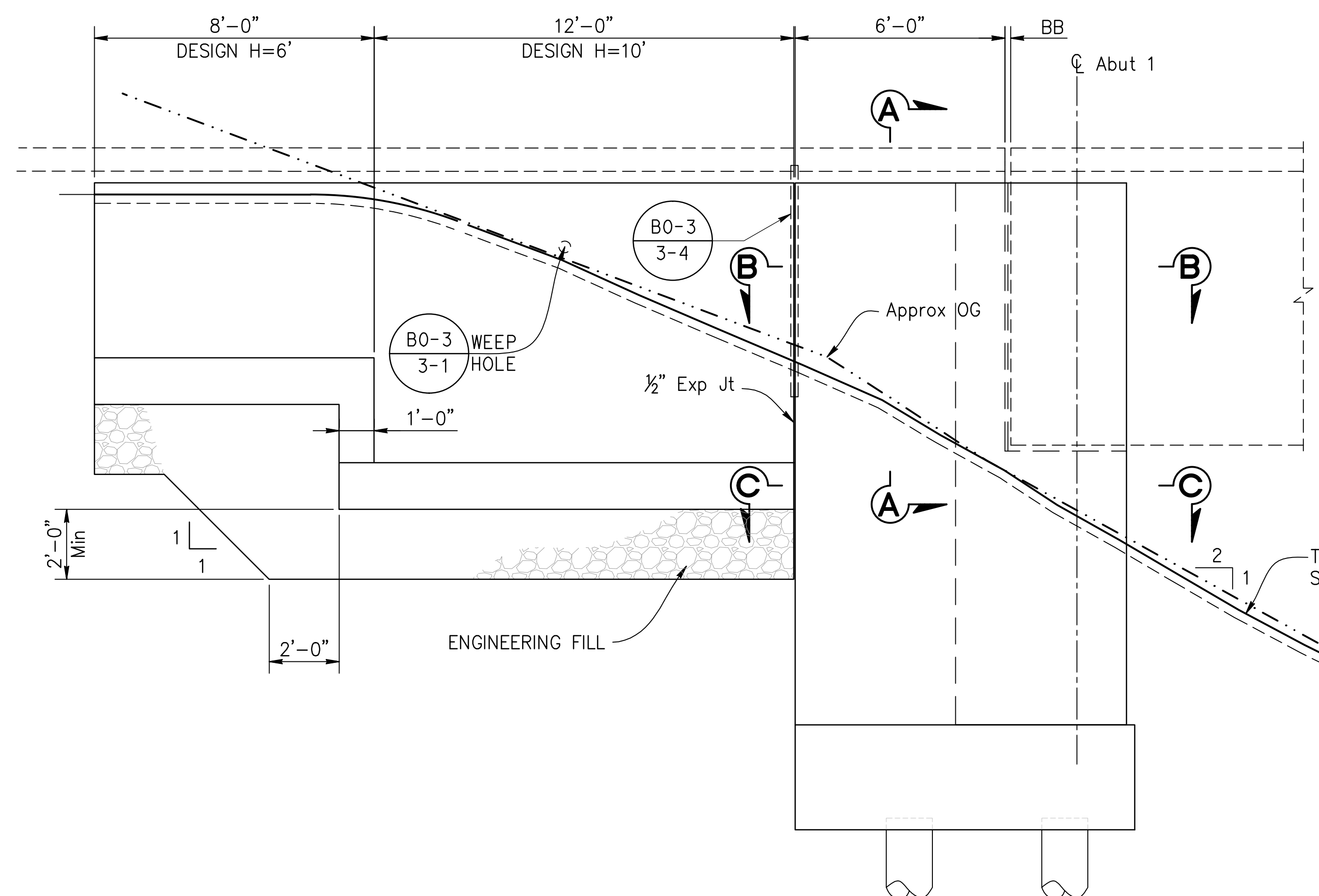
**ADDRESS:** HIGUERA STREET CULVERCITY CALIFORNIA

DRAWING NO.

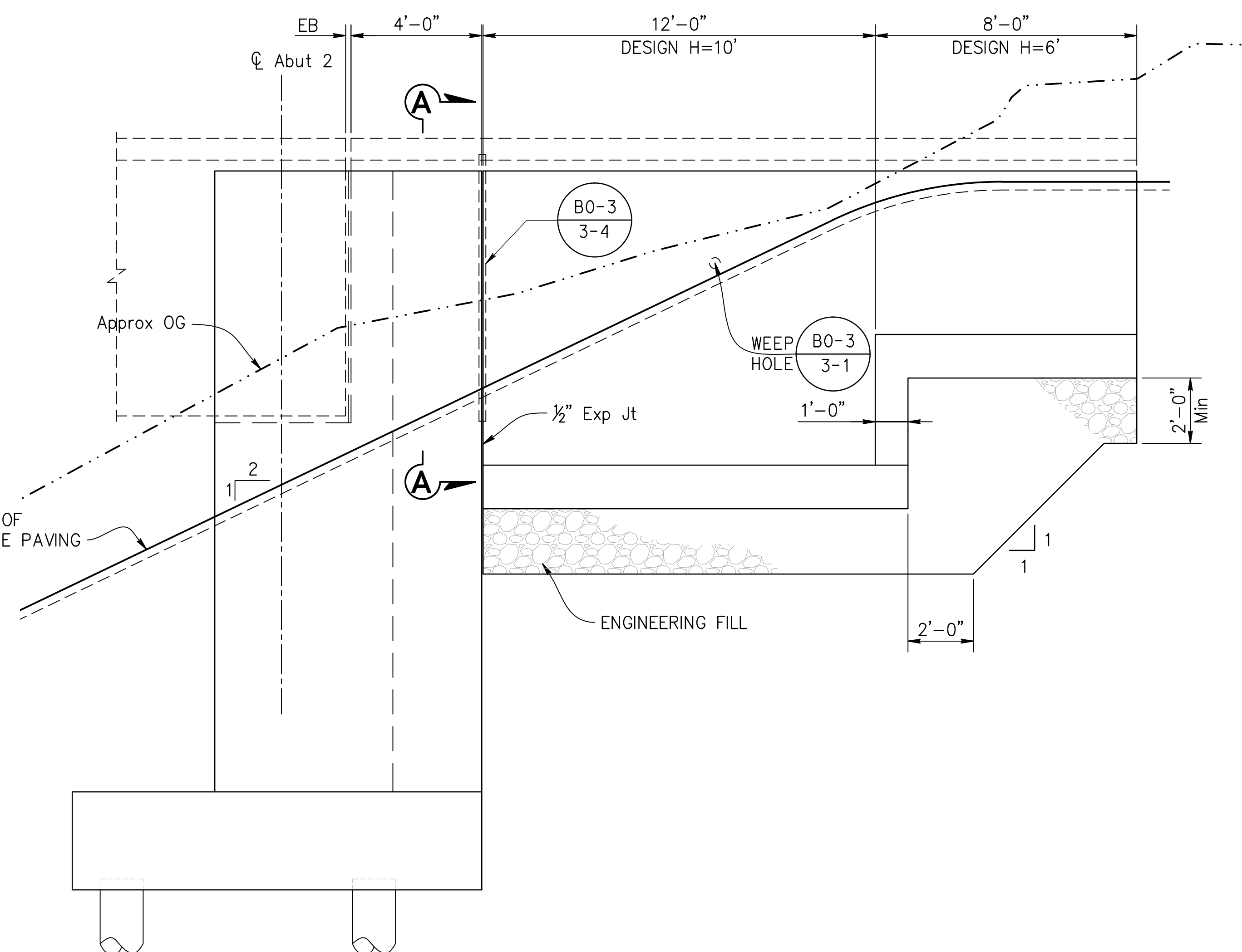
**S-10**

SHEET 30 OF 45 SHEETS

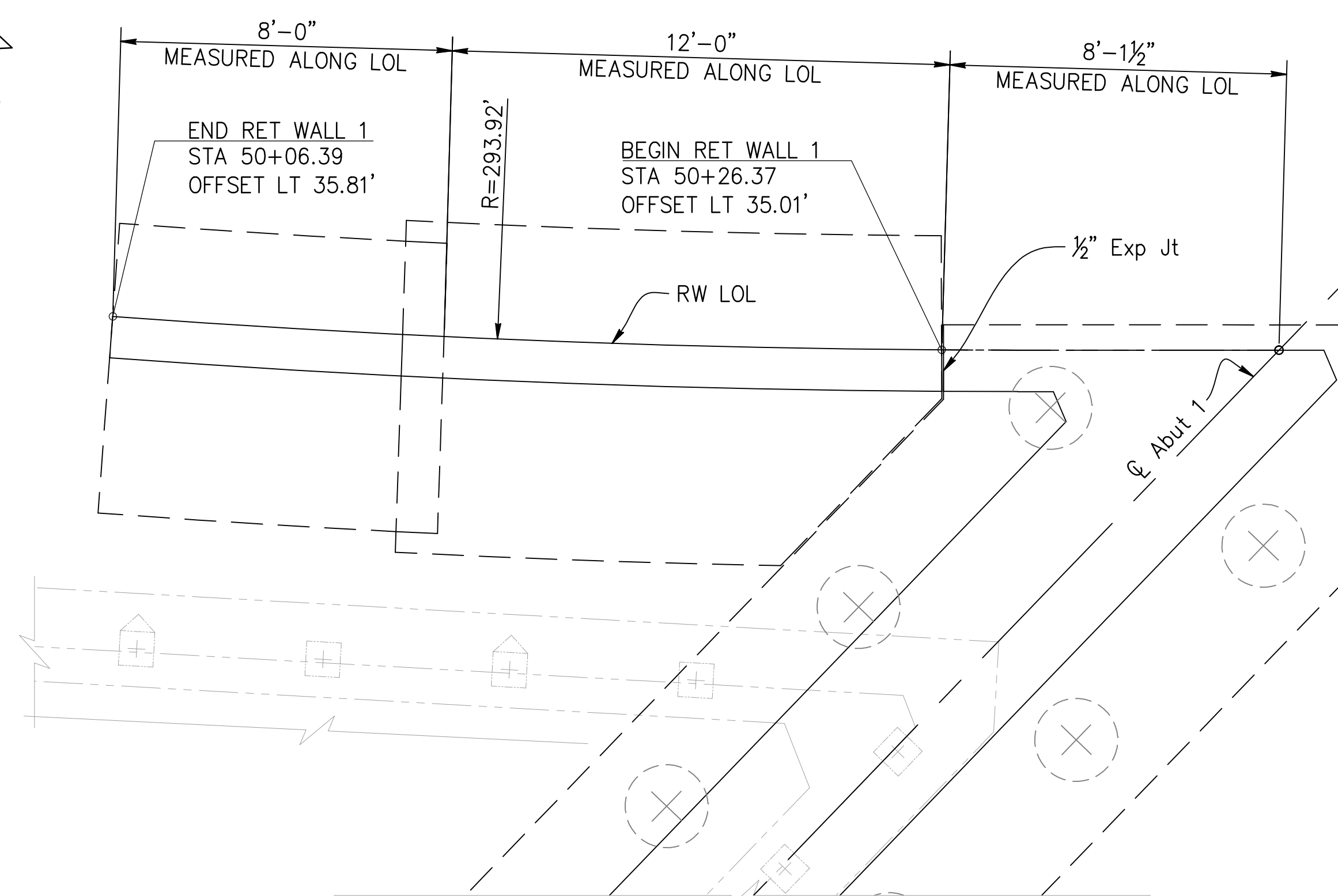


REVISION DATES  
(DESIGN STAGE ONLY)

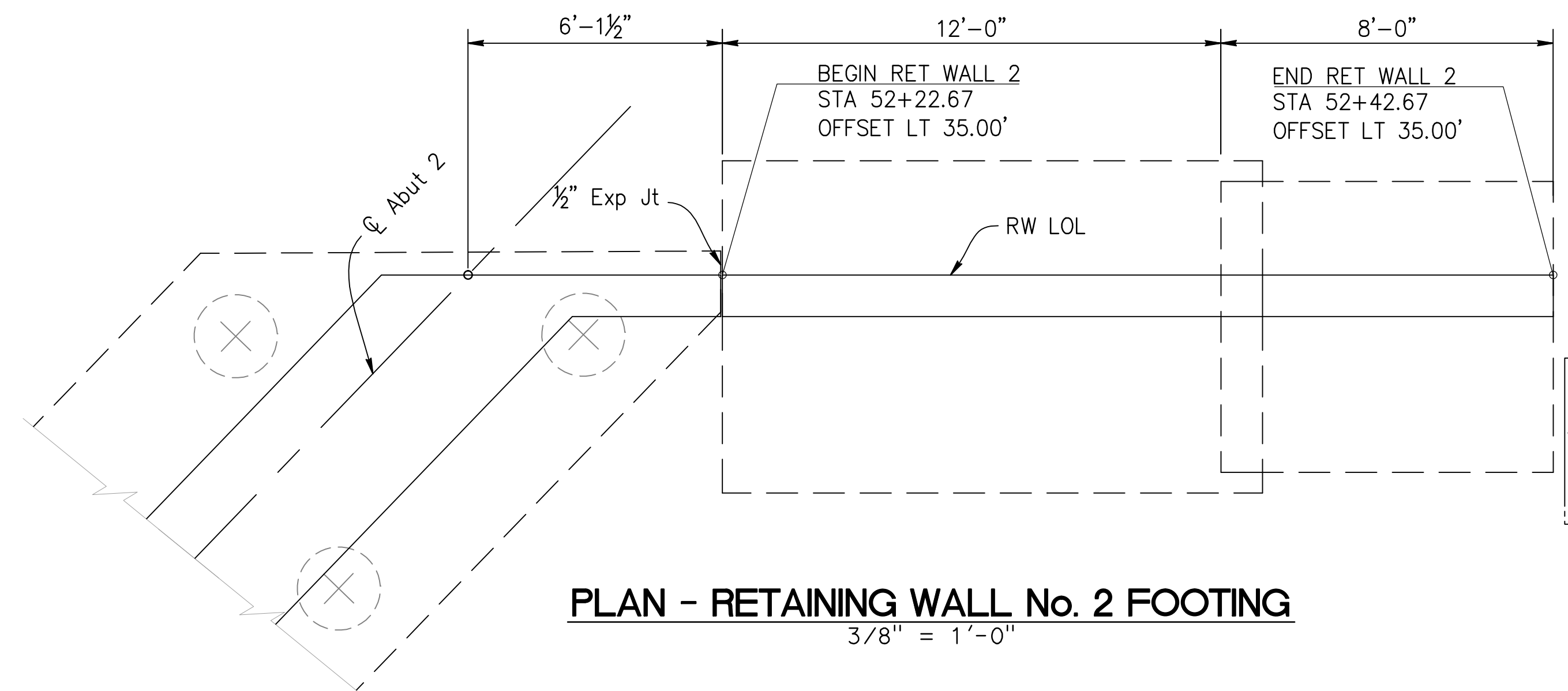
**MIRROR ELEVATION – RETAINING WALL No. 1**  
 $3/8'' = 1'-0''$



MIRROR ELEVATION - RETAINING WALL No. 2  
3/8" = 1'-0"



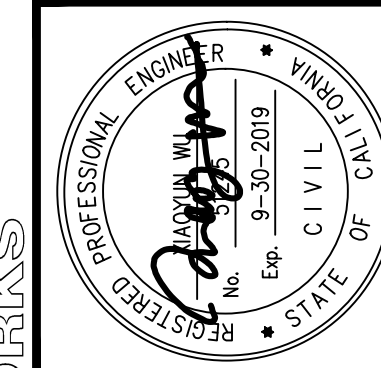
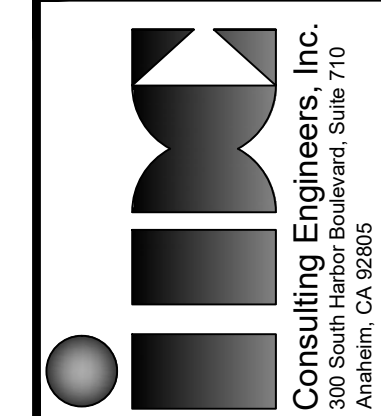
**PLAN - RETAINING WALL No. 1 FOOTING**



**PLAN - RETAINING WALL No. 2 FOOTING**

**NOTES:**

1. For SECTION A-A, See "RETAINING WALL DETAILS No. 2" Sheet.
2. For Shear Key Reinforcement, See "ABUTMENT DETAILS 2" Sheet.
3. For SECTIONS B-B and C-C, See "ABUTMENT DETAILS 2" Sheet.

[illegible]

|                                                                                 |            |
|---------------------------------------------------------------------------------|------------|
| <b>CHARLES D. HERBERTSON P.E. L.S.</b><br>PUBLIC WORKS DIRECTOR / CITY ENGINEER |            |
| APPROVED _____                                                                  | DATE _____ |
| PROJECT ENGINEER: S. SHARIFAN                                                   | 10/04/16   |
| DESIGNED BY: L. LIU                                                             | 2/27/15    |
| DRAWN BY: G. ESTEPA                                                             | 2/27/15    |
| CHECKED BY: M. QADANI                                                           | 2/27/15    |

|                                                       |
|-------------------------------------------------------|
| SEE SHEET T11-01 FOR HORIZONTAL AND VERTICAL CONTROL  |
| <b>SHEET TITLE:</b>                                   |
| <b>RETAINING WALL DETAILS NO. 1</b>                   |
| <b>PROJECT:</b>                                       |
| <b>CULVERTY HIGUERA STREET<br/>BRIDGE REPLACEMENT</b> |
| <b>ADDRESS:</b>                                       |
| <b>HIGUERA STREET</b>                                 |

DRAWING NO.

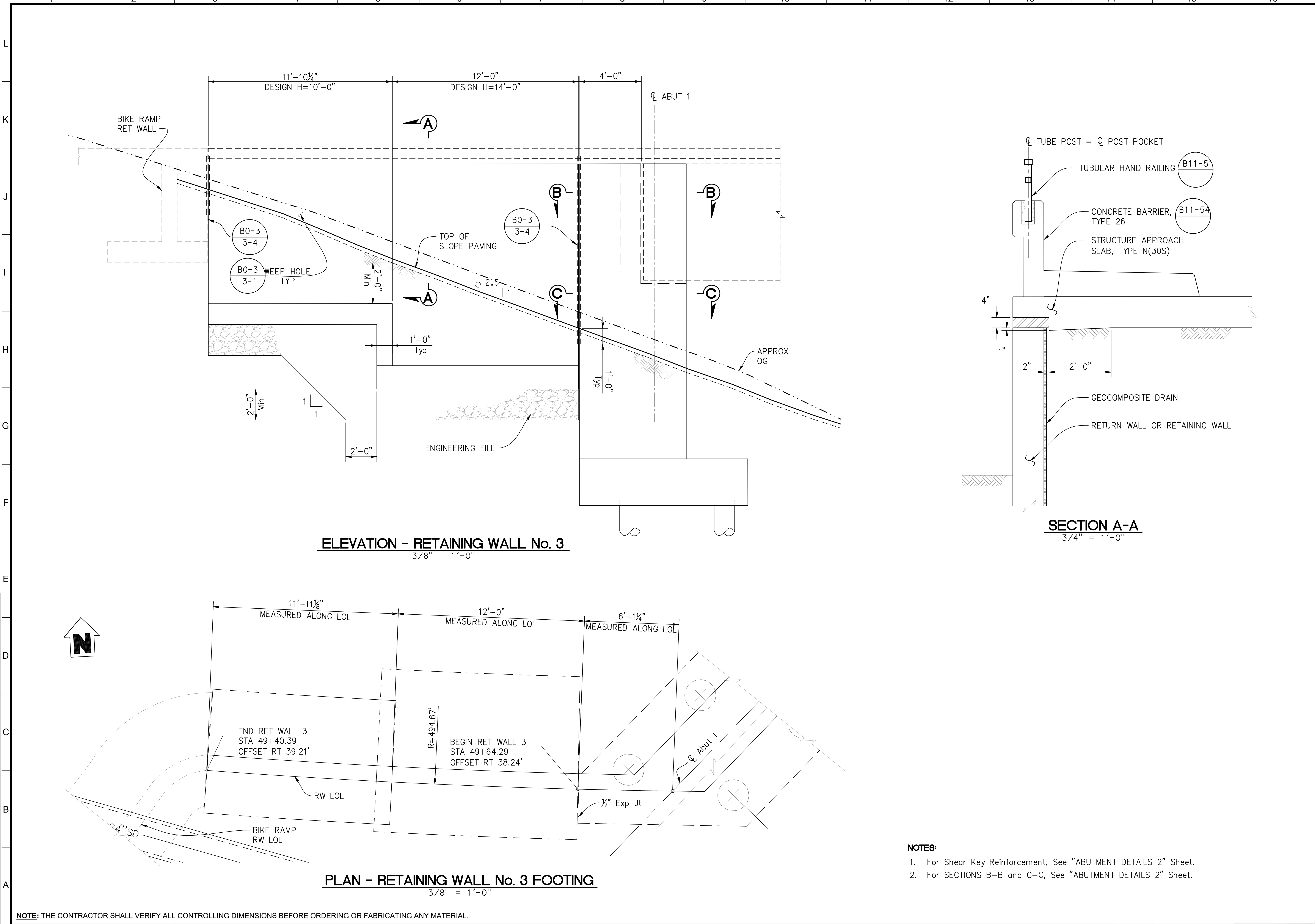
**S-11**

SHEET 31 OF 45 SHEET



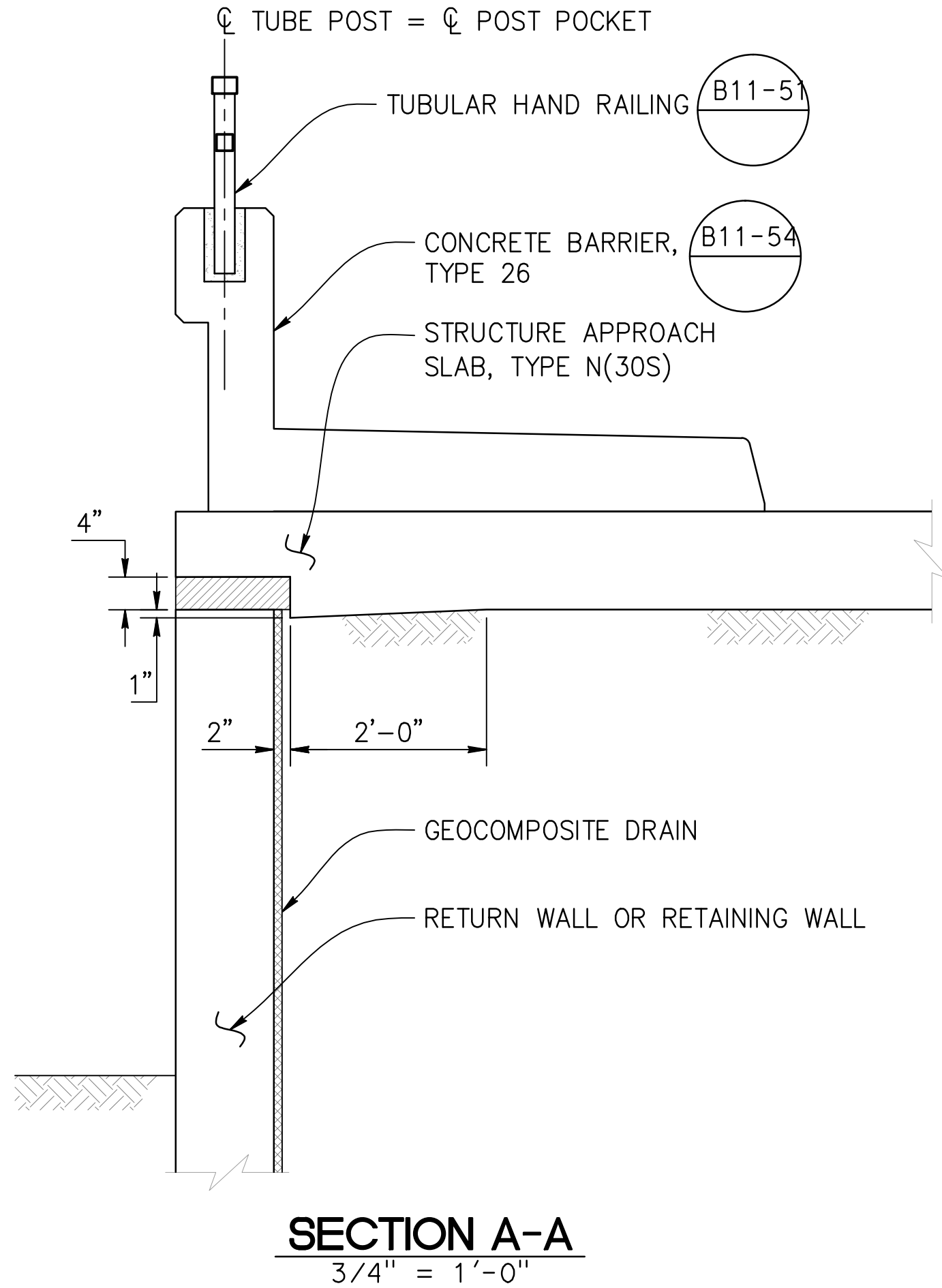
Z:\Dropbox\IDC\CAD\206-01-10\_Culver\_City\FINAL Bridge\530876-9-rwts.dwg [Relining Wall 3] Wed 12 Jun 2019 2:43 PM - IDCNET

REVISION DATES  
(DESIGN STAGE ONLY)

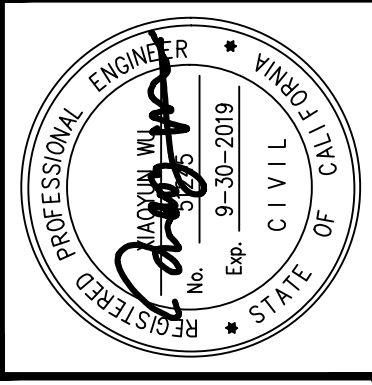
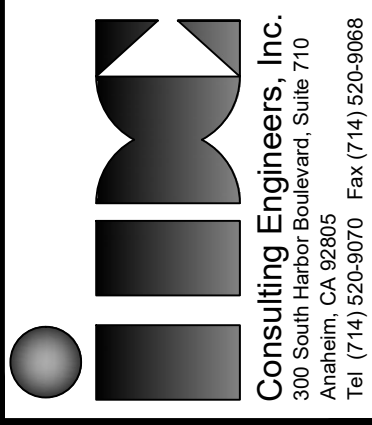


**NOTES:**

1. For Shear Key Reinforcement, See "ABUTMENT DETAILS 2" Sheet.
2. For SECTIONS B-B and C-C, See "ABUTMENT DETAILS 2" Sheet.



| NO. | REVISIONS: | DATE: | BY: |
|-----|------------|-------|-----|
|     |            |       |     |
|     |            |       |     |
|     |            |       |     |
|     |            |       |     |



| APPROVED                                                                   | DATE        |
|----------------------------------------------------------------------------|-------------|
| CHARLES D. HERBERTSON, P.E., L.S.<br>PUBLIC WORKS DIRECTOR / CITY ENGINEER | 10/04/16    |
| PROJECT ENGINEER:                                                          | S. SHARIFAN |
| DESIGNED BY:                                                               | L. LIU      |
| DRAWN BY:                                                                  | G. ESTEPA   |
| CHECKED BY:                                                                | M. SOLTANI  |

|                                                             |
|-------------------------------------------------------------|
| SEE SHEET T11-01 FOR HORIZONTAL AND VERTICAL CONTROL        |
| SHEET TITLE:<br><b>RETAINING WALL DETAILS NO. 2</b>         |
| PROJECT:<br>CULVERCITY HIGUERA STREET<br>BRIDGE REPLACEMENT |
| ADDRESS:<br>HIGUERA STREET<br>CULVERCITY CALIFORNIA         |

DRAWING NO.

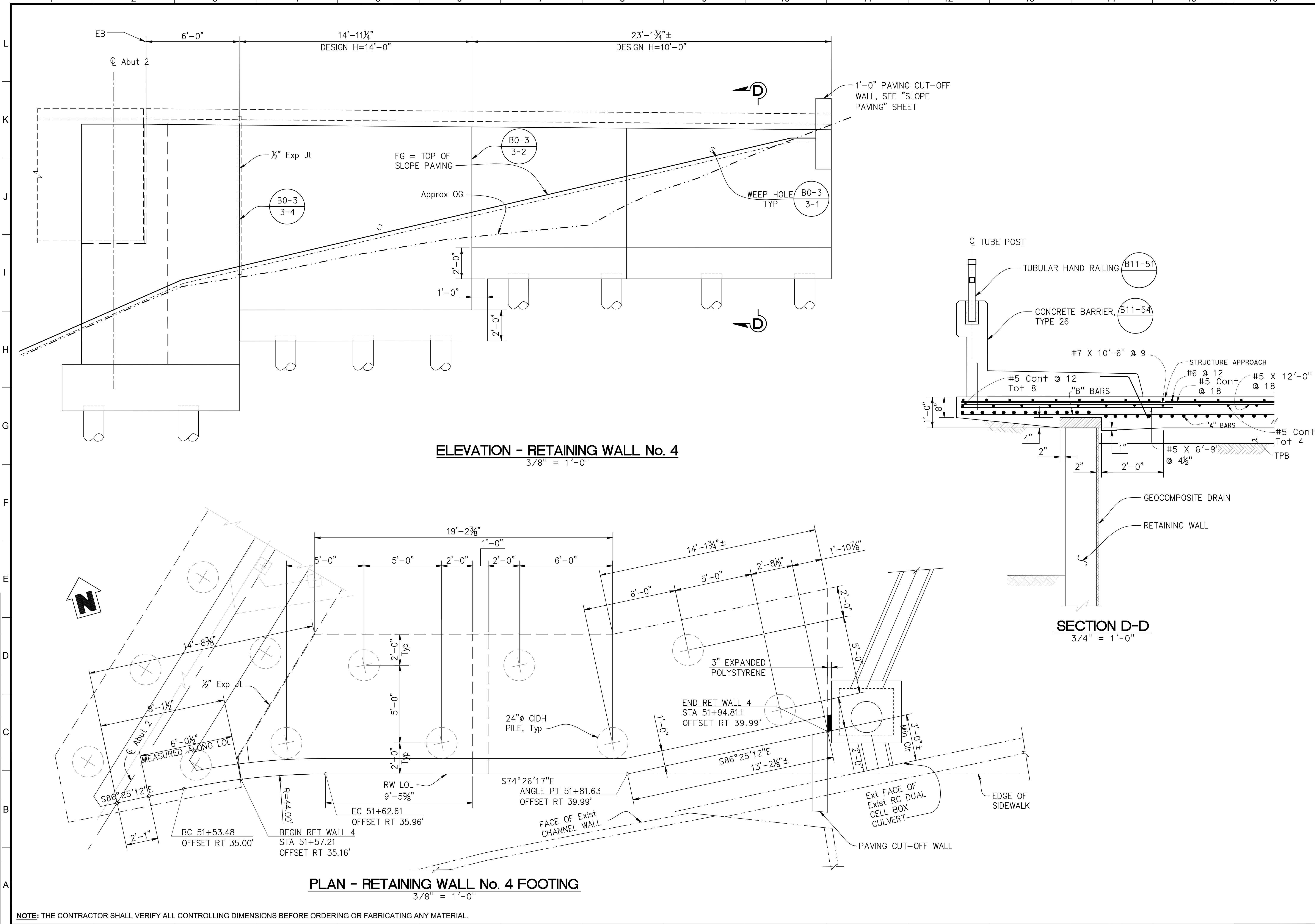
**S-12**

SHEET 32 OF 45 SHEETS



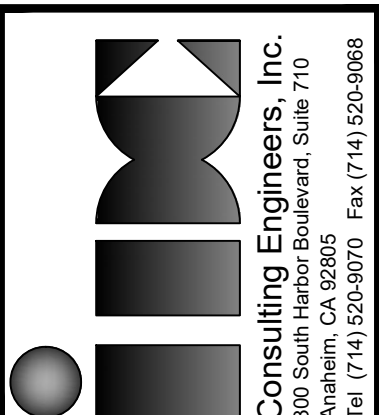
Z:\Dropbox\IDC\CAD\206-01-10\_Culver\_City\FINAL Bridge\530876-9-rwts.dwg, [Retaining Wall 4], Wed, 12 Jun 2019, 2:43 PM - IDCNET  
THE CITY OF CULVER CITY OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES  
(DESIGN STAGE ONLY)

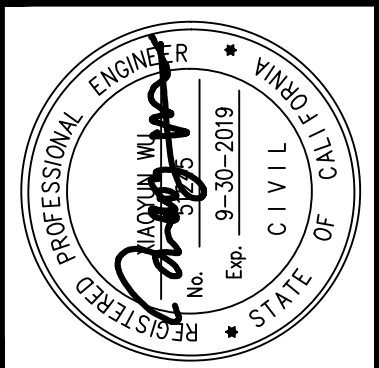




| NO | REVISIONS | DATE | BY |
|----|-----------|------|----|
|    |           |      |    |
|    |           |      |    |
|    |           |      |    |
|    |           |      |    |
|    |           |      |    |
|    |           |      |    |
|    |           |      |    |
|    |           |      |    |
|    |           |      |    |



**Consulting Engineers, Inc.**  
Professional Engineers  
Anaheim, CA 92805  
Tel (714) 520-9070 Fax (714) 520-9068



**CHARLES D. HERBERTSON, P.E., L.S.**  
PUBLIC WORKS DIRECTOR / CITY ENGINEER

| APPROVED | DATE     |
|----------|----------|
|          | 10/04/16 |

| PROJECT ENGINEER: | DESIGNED BY: | DRAWN BY: | CHECKED BY: |
|-------------------|--------------|-----------|-------------|
| S. SHARIFAN       | L. LIU       | G. ESTEPA | M. SOLTANI  |

| DATE    | 2027/15 |
|---------|---------|
| 2027/15 | 2027/15 |

**RETAINING WALL DETAILS NO. 3**  
CULVERCITY HIGUERA STREET  
BRIDGE REPLACEMENT  
HIGUERA STREET  
CULVERCITY CALIFORNIA

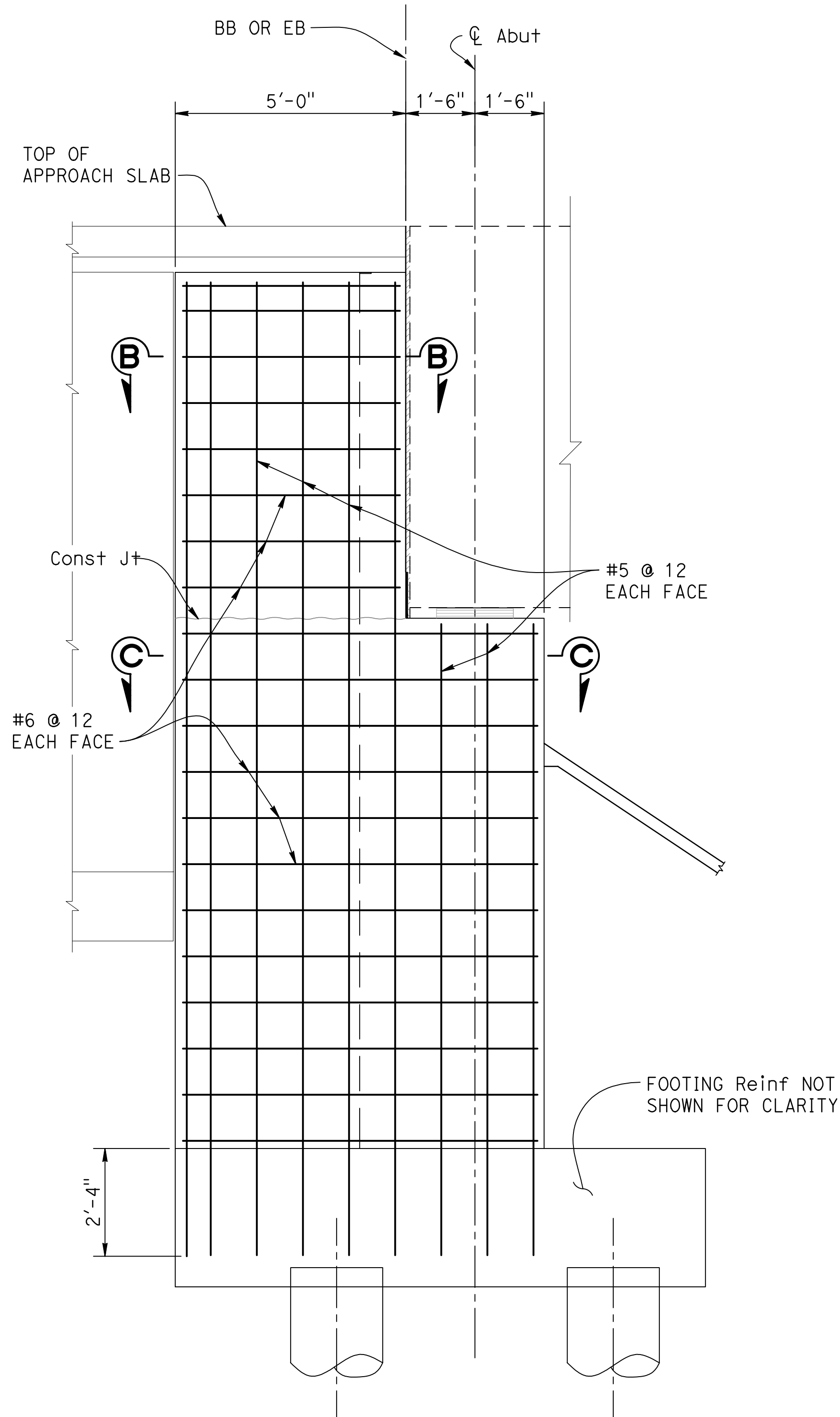
**S-13**

SHEET 33 OF 45 SHEETS



Z:\Dropbox\IDC\CA\206-01-10\_Culver\_City\FINAL Bridge\5300876-9-rwd03.dwg [Ret. Wall & Wing Wall Details] Wed, 12 Jun 2019, 2:43 PM - IDCNET  
THE CITY OF CULVER CITY OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

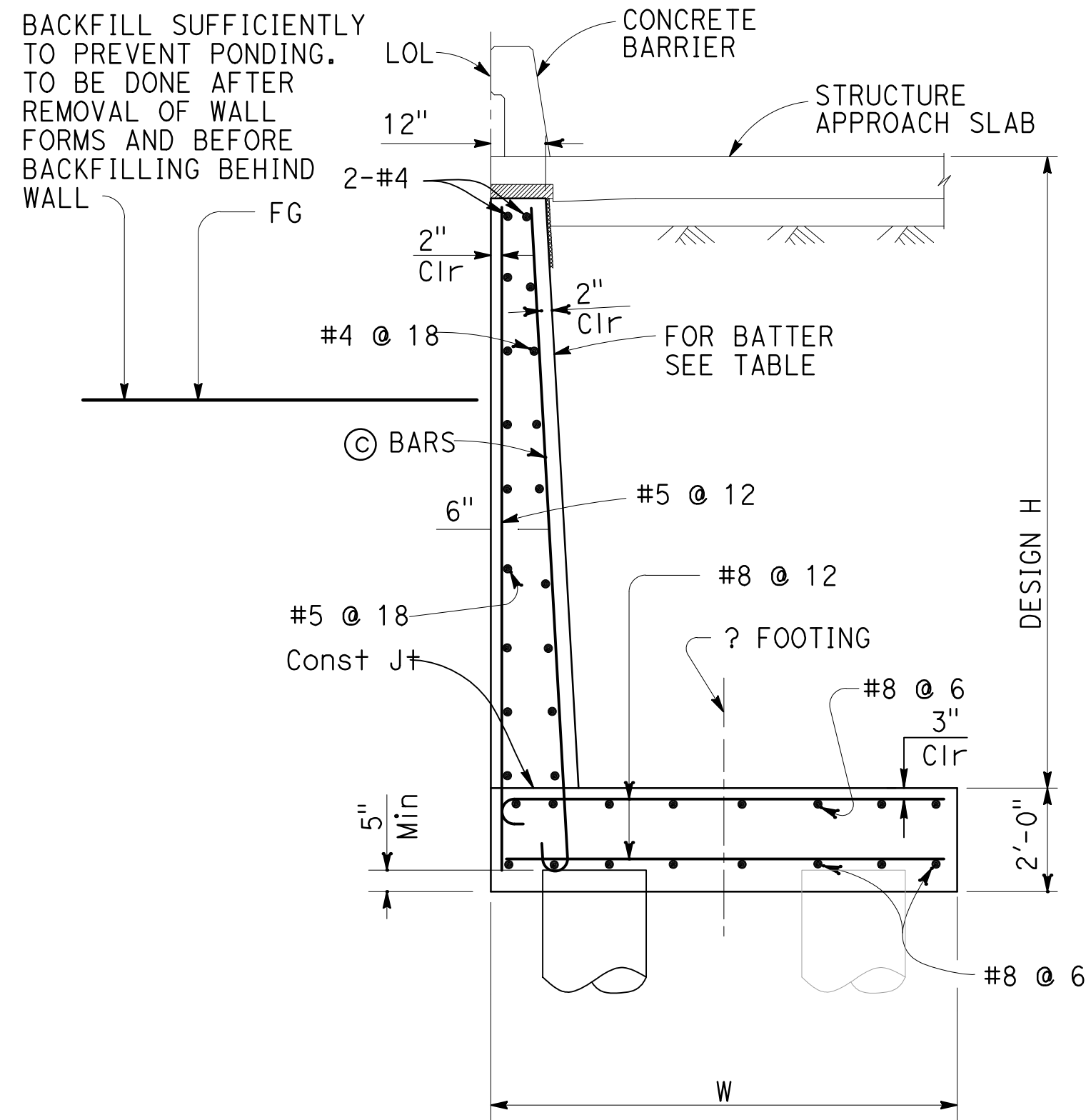


**RETURN WALL ELEVATION**

1/2" = 1'-0"

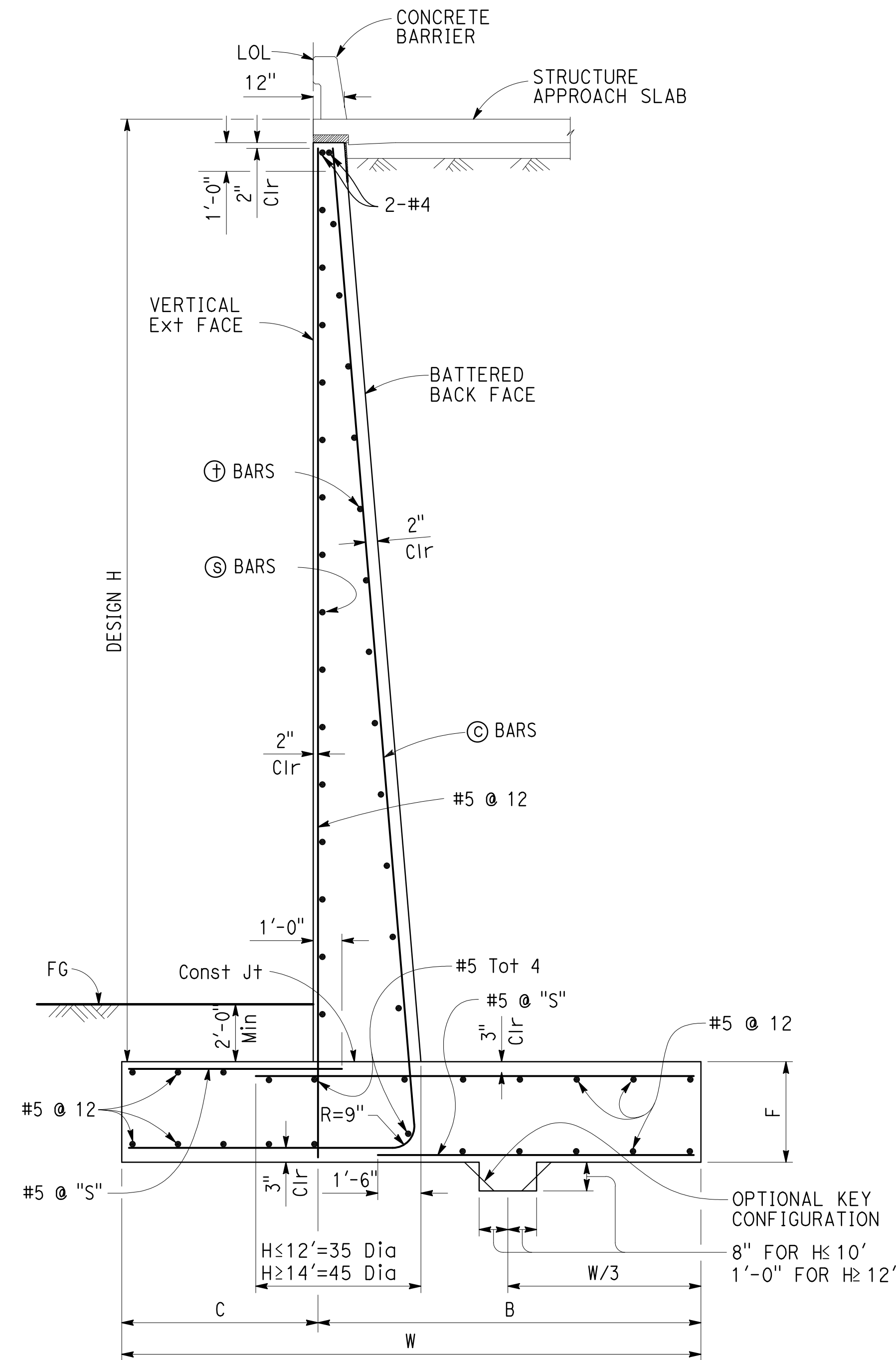
**NOTES:**

1. Abutment 1 shown, Abutment 2 similar.
2. For Sections B-B and C-C, See "ABUTMENT DETAILS NO. 2" Sheet.



**SECTION - RETAINING WALL No. 4**  
NO SCALE

| TABLE OF REINFORCING STEEL, DIMENSIONS & DATA |            |            |
|-----------------------------------------------|------------|------------|
| DESIGN H                                      | 9'         | 13'        |
| W                                             | 9'-0"      | 9'-0"      |
| BATTER                                        | 1/2" : 12" | 1/2" : 12" |
| SPACING "S"                                   | 12"        | 12"        |
| ⊙ BARS                                        | #6         | #8         |



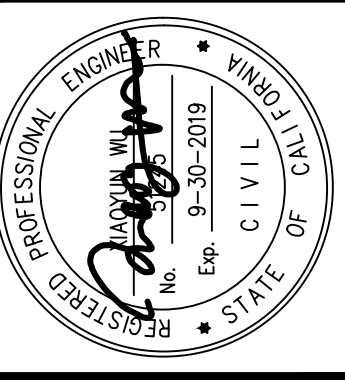
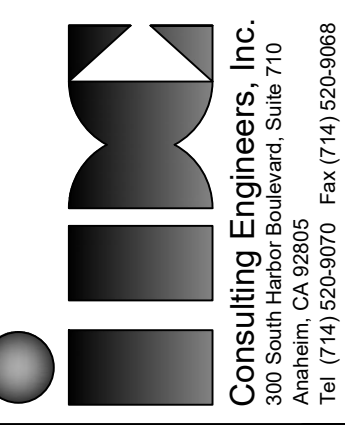
**SECTION - RETAINING WALL Nos. 1, 2 AND 3**  
NO SCALE

| TABLE OF REINFORCING STEEL, DIMENSIONS & DATA |            |            |            |            |            |
|-----------------------------------------------|------------|------------|------------|------------|------------|
| DESIGN H                                      | 6'         | 8'         | 10'        | 12'        | 14'        |
| W                                             | 7'-0"      | 7'-6"      | 8'-0"      | 9'-3"      | 10'-6"     |
| C                                             | 2'-3"      | 2'-6"      | 2'-9"      | 3'-0"      | 3'-3"      |
| B                                             | 4'-9"      | 5'-0"      | 5'-3"      | 6'-3"      | 7'-3"      |
| F                                             | 1'-4"      | 1'-4"      | 1'-4"      | 1'-6"      | 1'-8"      |
| BATTER                                        | 1/2" : 12" | 1/2" : 12" | 1/2" : 12" | 1/2" : 12" | 1/2" : 12" |
| SPACING "S"                                   | 12"        | 12"        | 12"        | 12"        | 12"        |
| ⊙ BARS                                        | #5         | #6         | #6         | #7         | #8         |
| ⊕ BARS                                        | #5         | #6         | #6         | #7         | #8         |
| ⊗ BARS                                        | #5 @ 18    | #5 @ 18    | #5 @ 18    | #5 @ 18    | #5 @ 18    |
| ⊕ BARS                                        | #4 @ 18    | #4 @ 18    | #4 @ 18    | #4 @ 18    | #4 @ 18    |

**NOTE:** THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



| DATE:      | BY: |
|------------|-----|
|            |     |
| REVISIONS: | NO. |
|            |     |
|            |     |
|            |     |
|            |     |
|            |     |
|            |     |
|            |     |
|            |     |



| APPROVED                              |  | DATE        |
|---------------------------------------|--|-------------|
| CHARLES D. HERBERTSON, P.E., L.S.     |  | 10/04/16    |
| PUBLIC WORKS DIRECTOR / CITY ENGINEER |  | S. SHARIFAN |
| PROJECT ENGINEER:                     |  | L. LIU      |
| DESIGNED BY:                          |  | 2/27/15     |
| DRAWN BY:                             |  | G. ESTEPA   |
| CHECKED BY:                           |  | 2/27/15     |
| M. SOLTANI                            |  | 2/27/15     |

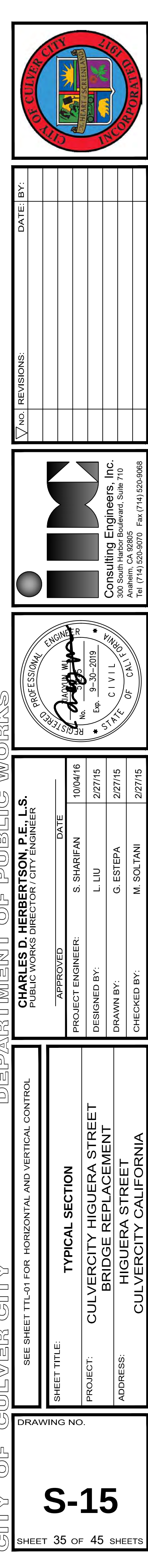
| SEE SHEET TITL-01 FOR HORIZONTAL AND VERTICAL CONTROL |  |
|-------------------------------------------------------|--|
| SHEET TITLE                                           |  |
| RETAINING WALL & RETURN WALL DETAILS                  |  |
| PROJECT:                                              |  |
| CULVERCITY HIGUERA STREET BRIDGE REPLACEMENT          |  |
| ADDRESS:                                              |  |
| HIGUERA STREET CULVERCITY CALIFORNIA                  |  |

DRAWING NO.

**S-14**

SHEET 34 OF 45 SHEETS

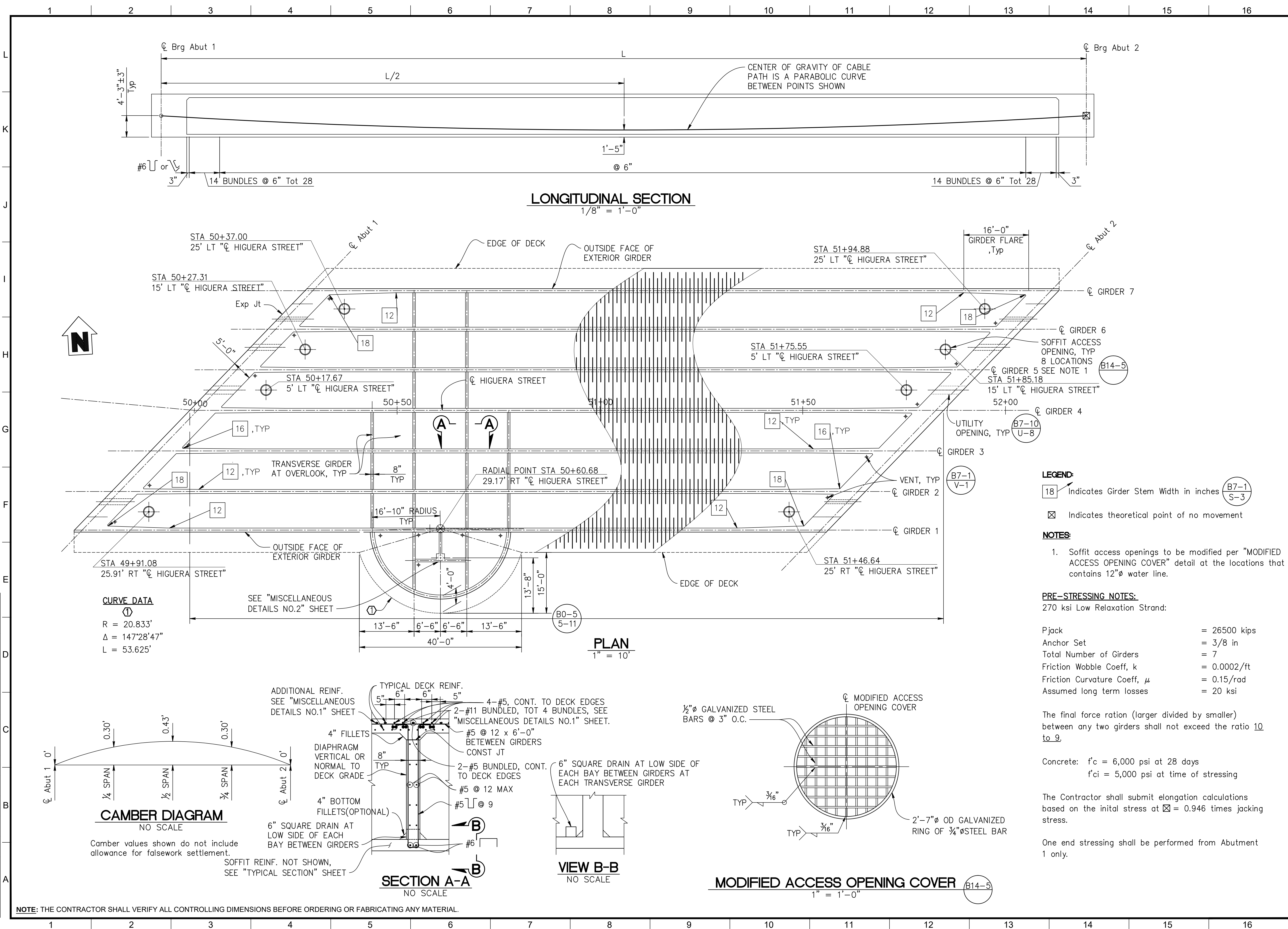






Z:\Dropbox\IDC\CAD\206-01-10\_Culver\_City\FINAL Bridge\5300876-1-g\_1001.dwg [Culver Layout] Wed, 12 Jun 2019, 2:44 PM - IDCNET  
THE CITY OF CULVER CITY OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

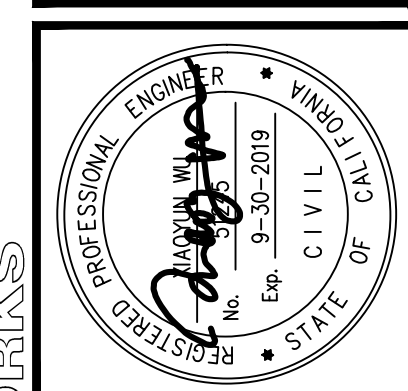
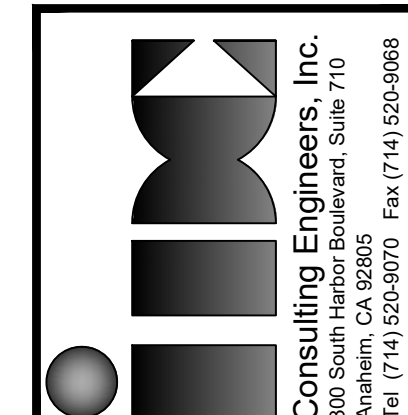
REVISION DATES  
(DESIGN STAGE ONLY)



NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



| DATE:      |  |
|------------|--|
| REVISIONS: |  |
| NO         |  |

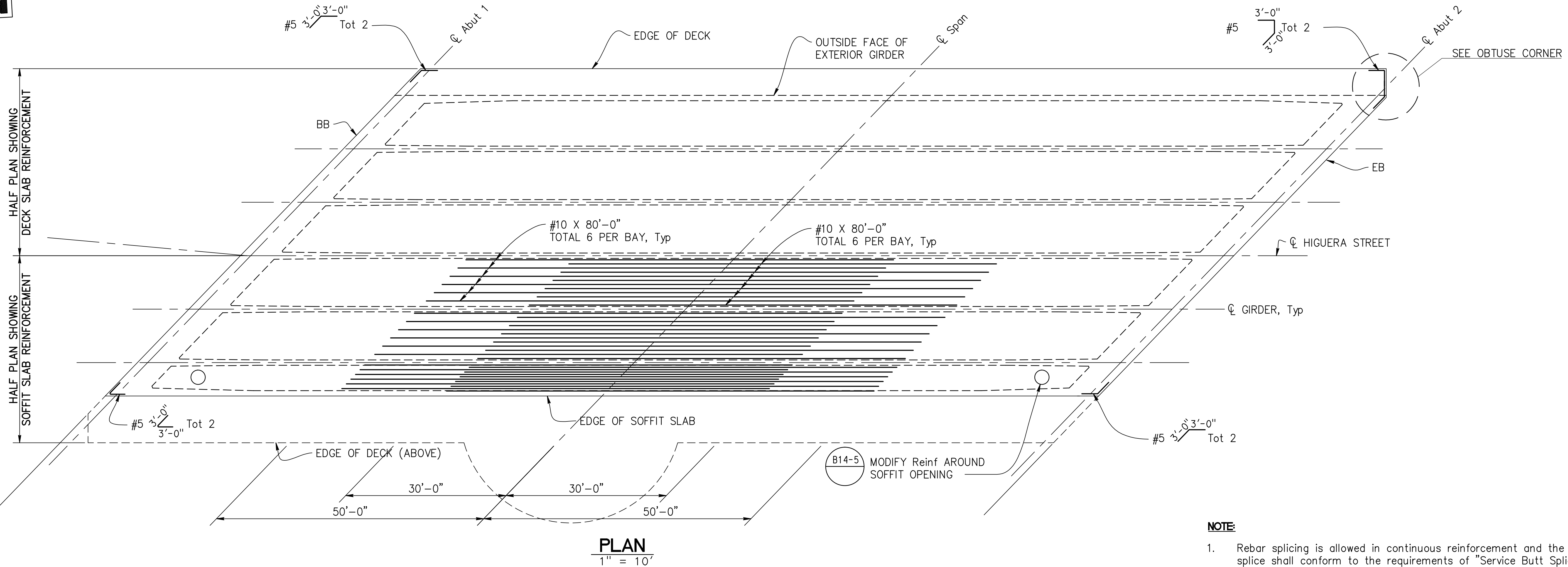
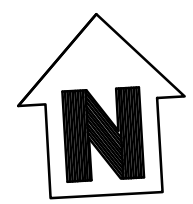


| APPROVED                                                                   | DATE        |
|----------------------------------------------------------------------------|-------------|
| CHARLES D. HERBERTSON, P.E., L.S.<br>PUBLIC WORKS DIRECTOR / CITY ENGINEER | 10/04/16    |
| PROJECT ENGINEER:                                                          | S. SHARIFAN |
| DESIGNED BY:                                                               | L. LIU      |
| DRAWN BY:                                                                  | G. ESTEPA   |
| CHECKED BY:                                                                | M. SOLTANI  |

| SHEET TITLE: | GIRDER LAYOUT                                   |
|--------------|-------------------------------------------------|
| PROJECT:     | CULVERCITY HIGUERA STREET<br>BRIDGE REPLACEMENT |
| ADDRESS:     | HIGUERA STREET<br>CULVERCITY CALIFORNIA         |

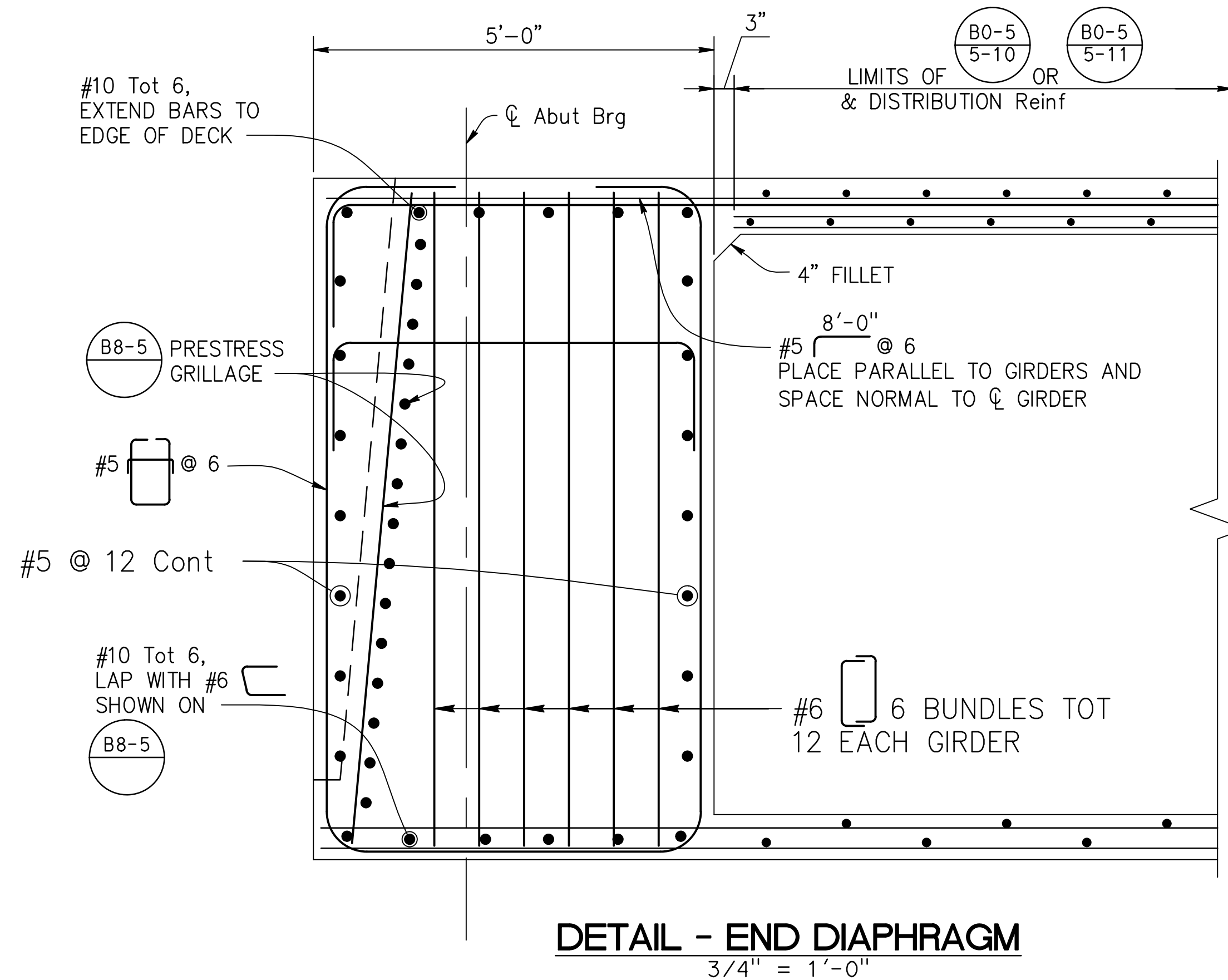
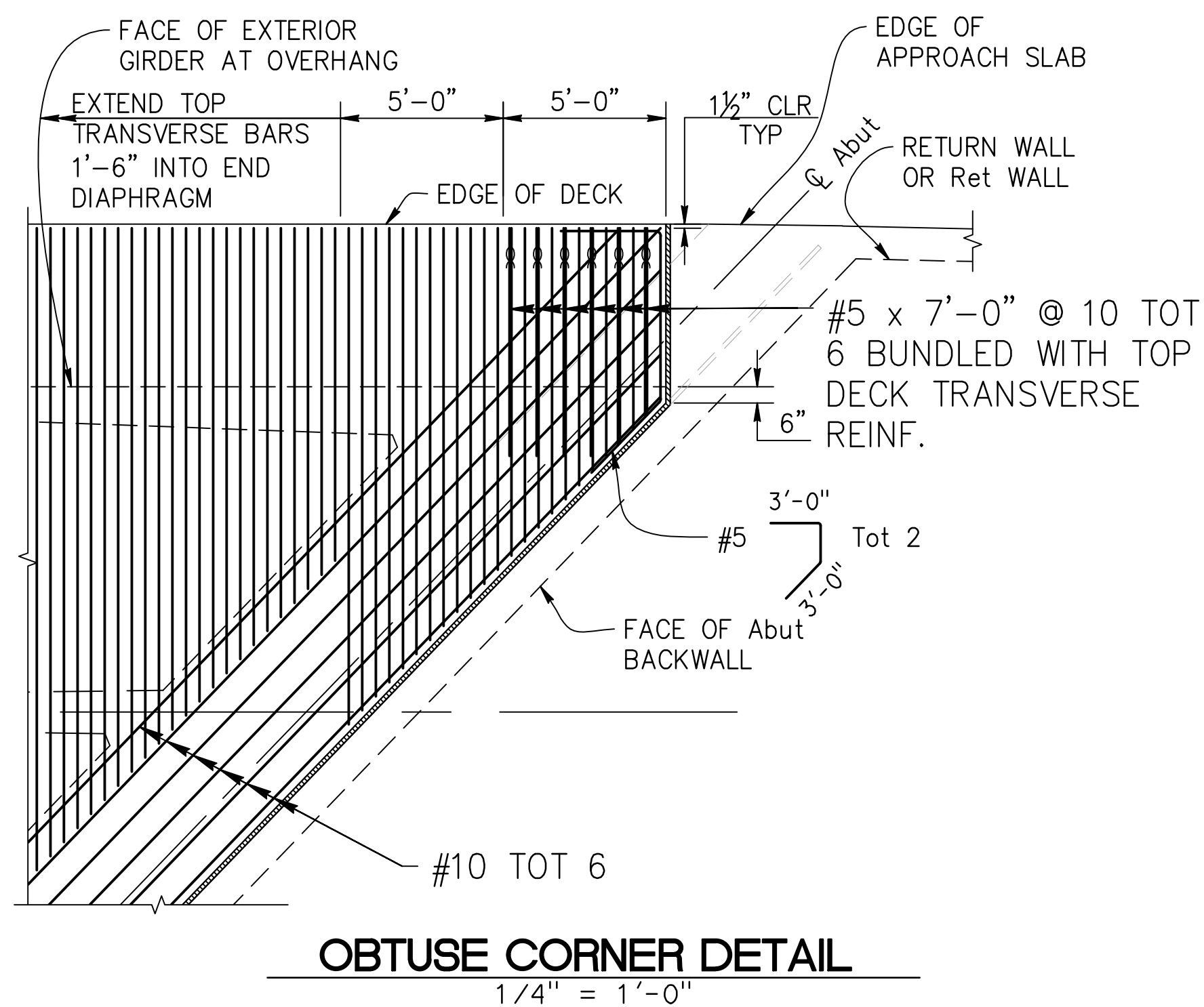


Z:\Dropbox\IDC\CAD\206-01-10\_Culver\_City\FINAL Bridge\530876-W-usr.dwg [Add'l Slab Reinf] Wed, 12 Jun 2019, 2:45 PM - IDCNET  
THE CITY OF CULVER CITY OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.  
REVISION DATES (DESIGN STAGE ONLY)



**NOTE:**

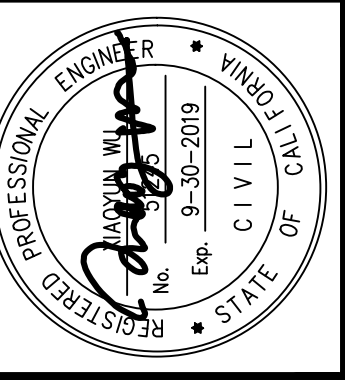
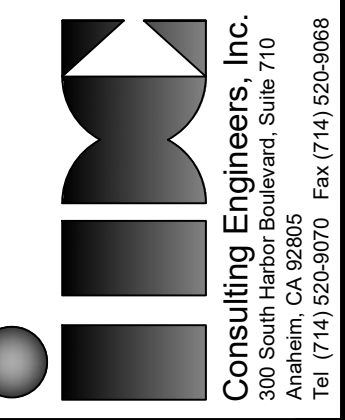
1. Rebar splicing is allowed in continuous reinforcement and the splice shall conform to the requirements of "Service Butt Splice".



**NOTE:** THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



| NO. | REVISIONS | DATE | BY |
|-----|-----------|------|----|
|     |           |      |    |
|     |           |      |    |
|     |           |      |    |
|     |           |      |    |



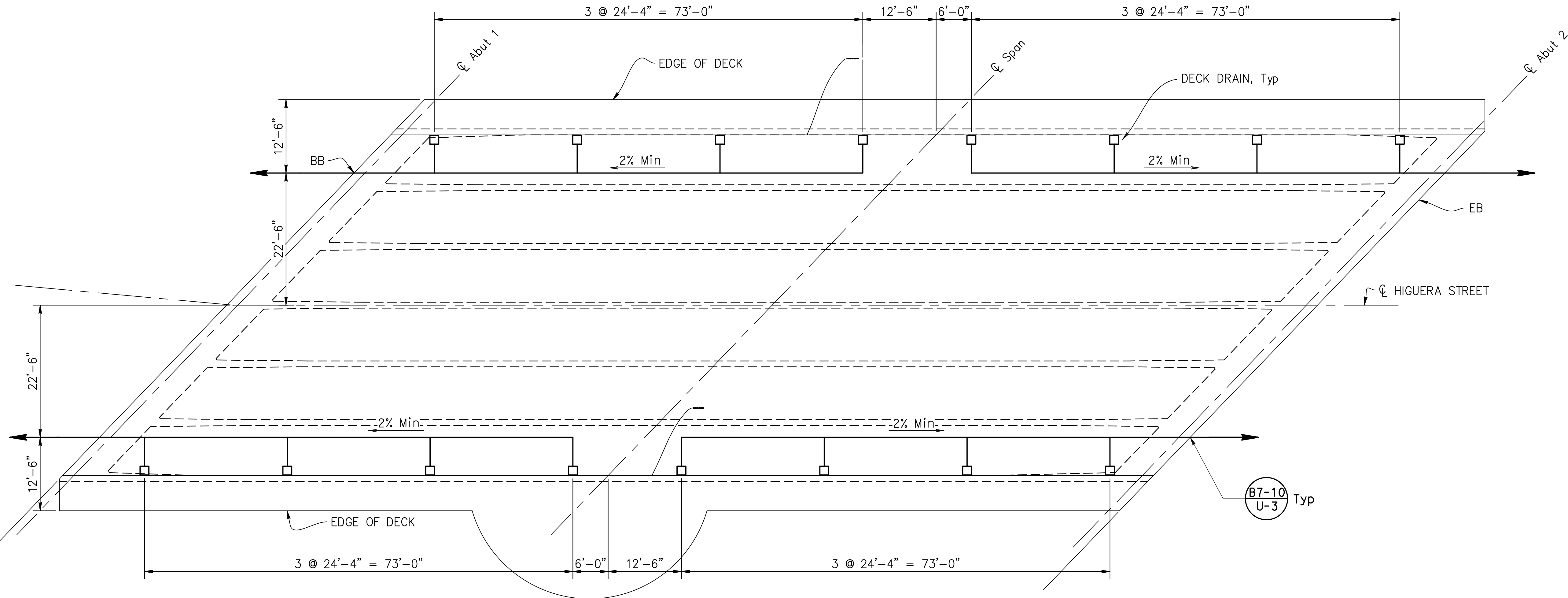
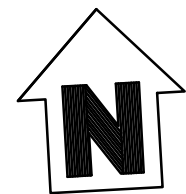
| APPROVED                                                                   | DATE        |
|----------------------------------------------------------------------------|-------------|
| CHARLES D. HERBERTSON, P.E., L.S.<br>PUBLIC WORKS DIRECTOR / CITY ENGINEER | 10/04/16    |
| PROJECT ENGINEER:                                                          | S. SHARIFAN |
| DESIGNED BY:                                                               | L. LIU      |
| DRAWN BY:                                                                  | G. ESTEPA   |
| CHECKED BY:                                                                | M. SOLTANI  |

| SHEET TITLE                                     |
|-------------------------------------------------|
| ADDITIONAL DECK & SOFFIT REINFORCEMENT          |
| PROJECT:                                        |
| CULVERCITY HIGUERA STREET<br>BRIDGE REPLACEMENT |
| ADDRESS:                                        |
| HIGUERA STREET<br>CULVERCITY CALIFORNIA         |

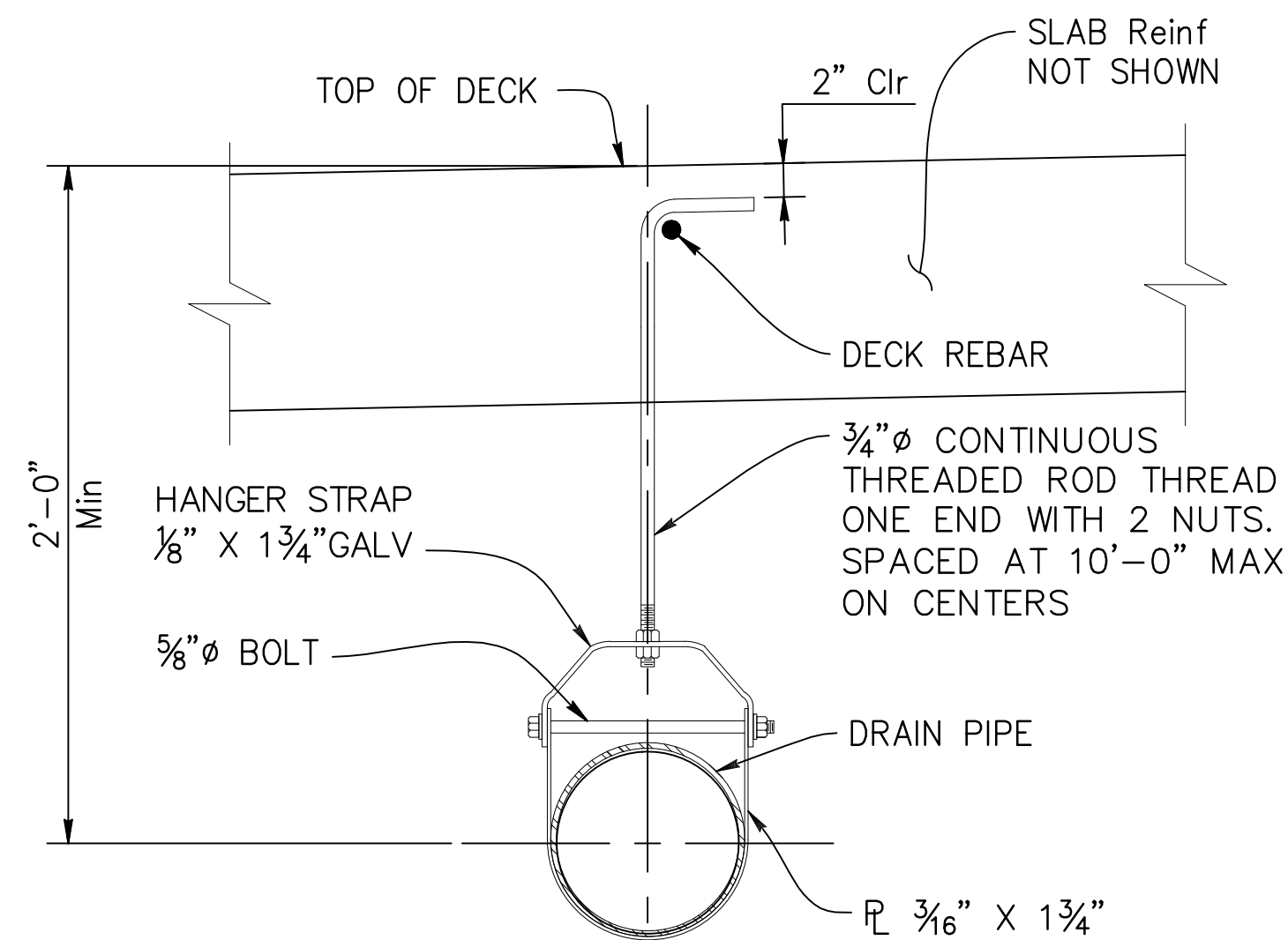
DRAWING NO.



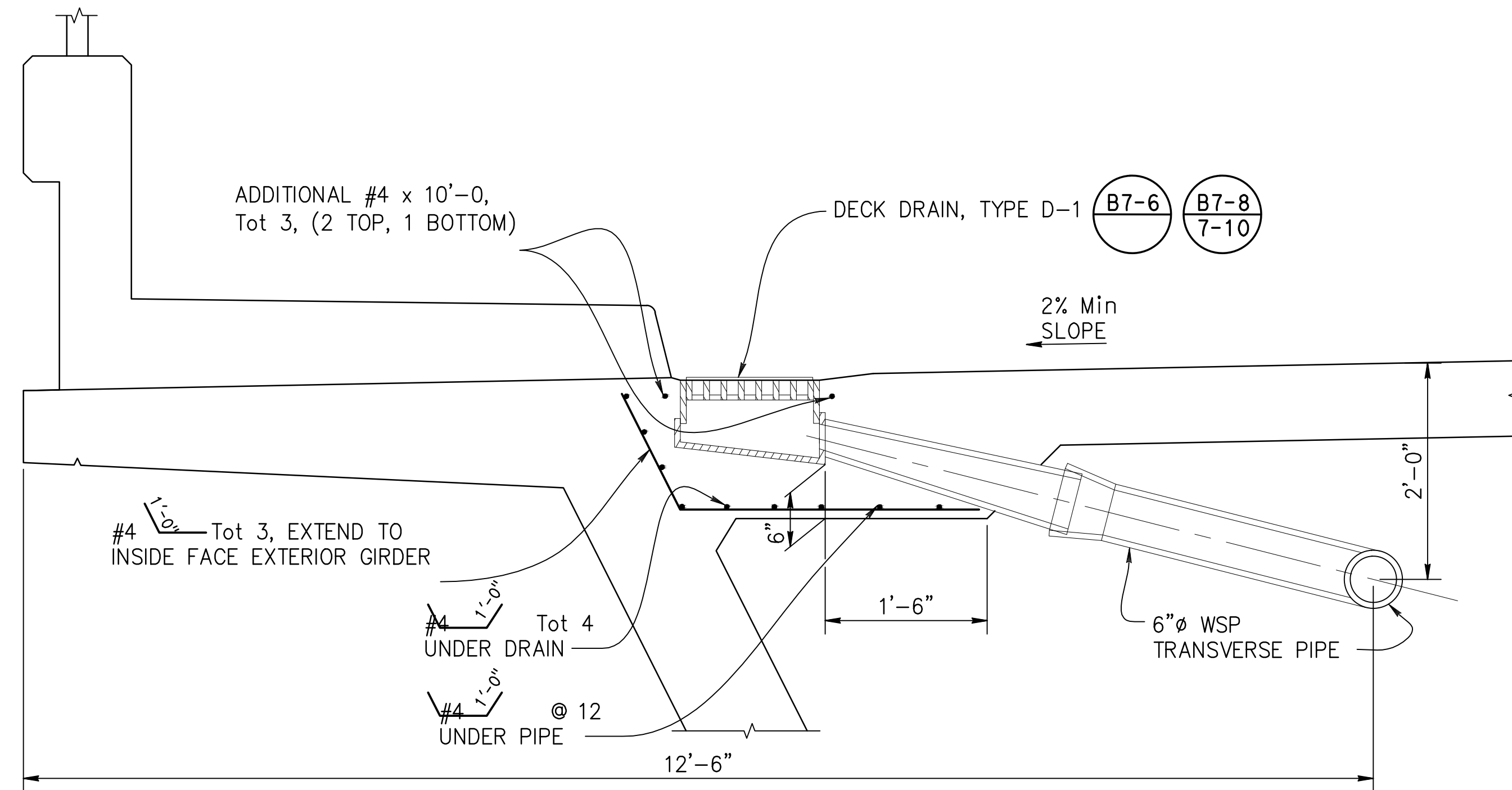
Z:\Dropbox\IDC\CAD\206-01-10\_Culver\_City\FINAL Bridge\530876-r-4d-1e01.dwg [Deck Drain Layout] Wed, 12 Jun 2019, 2:45 PM - IDCNET  
THE CITY OF CULVER CITY OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



DECK DRAIN LAYOUT  
1" = 10'



PIPE HANGER DETAILS  
NO SCALE

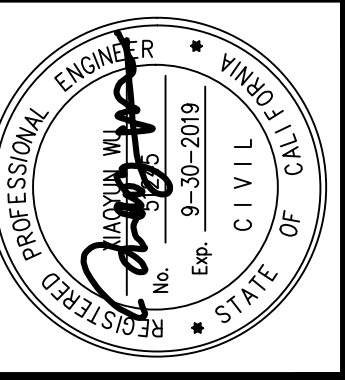
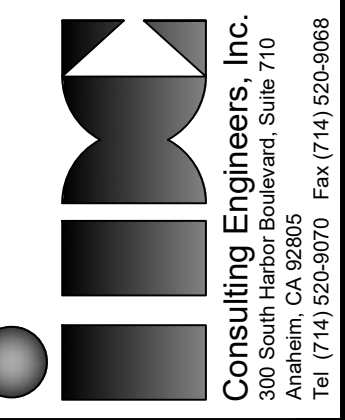


SECTION AT DECK DRAIN  
1" = 1'-0"

NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



| NO. | REVISIONS: | DATE: | BY: |
|-----|------------|-------|-----|
|     |            |       |     |
|     |            |       |     |
|     |            |       |     |
|     |            |       |     |
|     |            |       |     |



| APPROVED                                                                   | DATE        |
|----------------------------------------------------------------------------|-------------|
| CHARLES D. HERBERTSON, P.E., L.S.<br>PUBLIC WORKS DIRECTOR / CITY ENGINEER | 10/04/16    |
| PROJECT ENGINEER:                                                          | S. SHARIFAN |
| DESIGNED BY:                                                               | L. LIU      |
| DRAWN BY:                                                                  | G. ESTEPA   |
| CHECKED BY:                                                                | M. SOLTANI  |

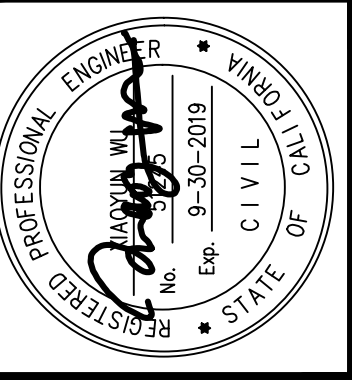
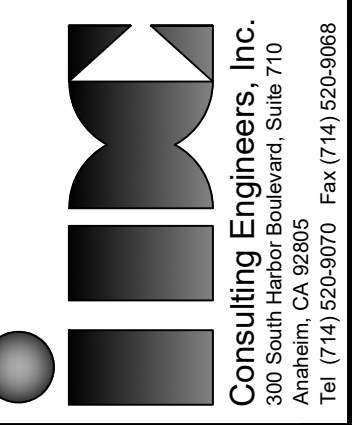
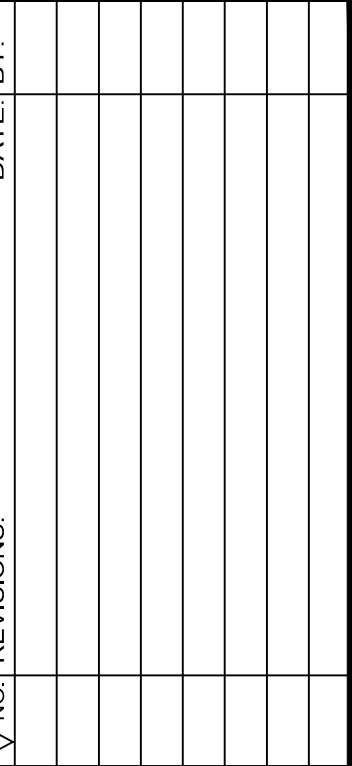
|              |                                                 |
|--------------|-------------------------------------------------|
| SHEET TITLE: | DECK DRAIN LAYOUT                               |
| PROJECT:     | CULVERCITY HIGUERA STREET<br>BRIDGE REPLACEMENT |
| ADDRESS:     | HIGUERA STREET<br>CULVERCITY CALIFORNIA         |

DRAWING NO.

S-18

SHEET 38 OF 45 SHEETS





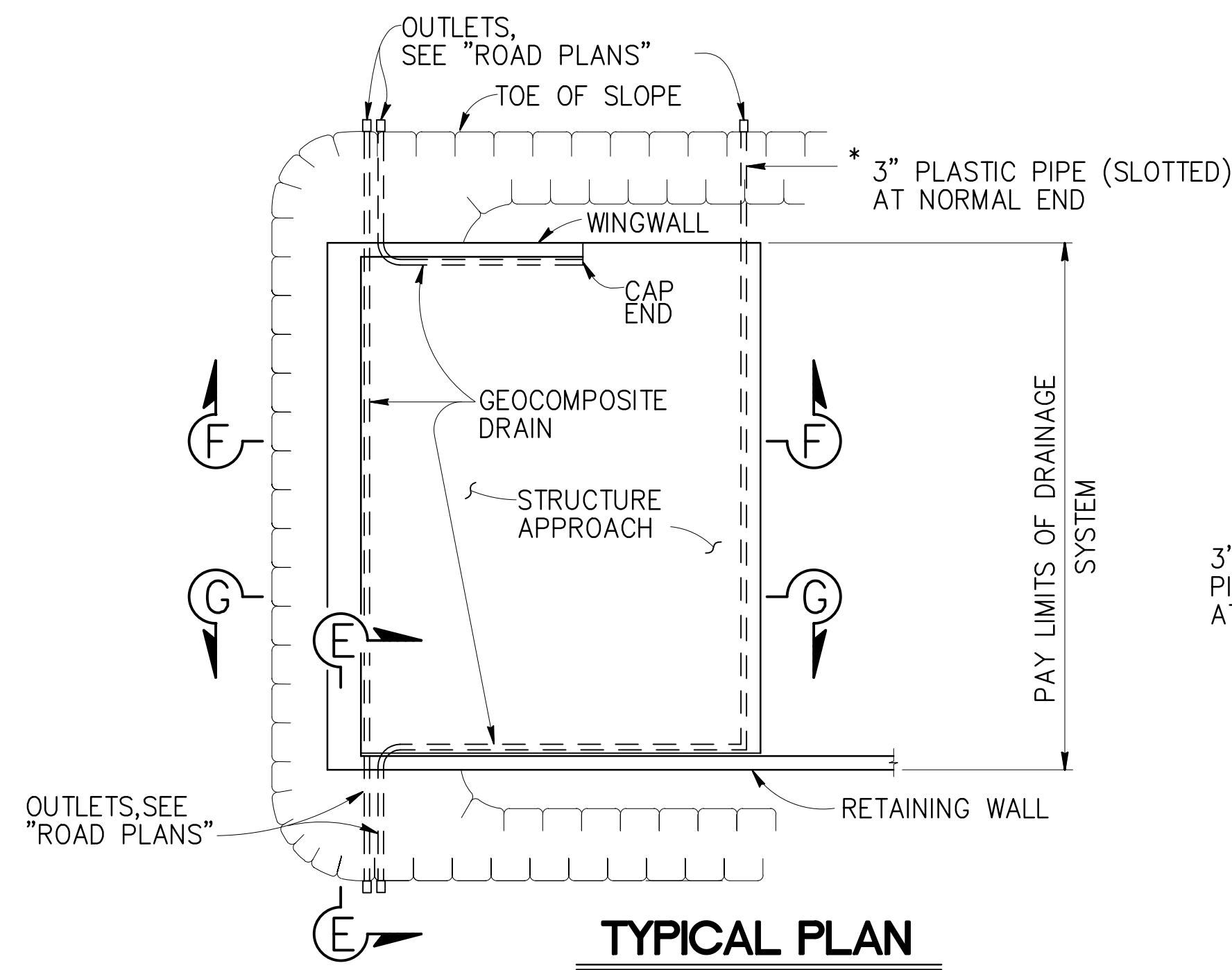
|                                                      |                                                  |
|------------------------------------------------------|--------------------------------------------------|
| SEE SHEET T11-01 FOR HORIZONTAL AND VERTICAL CONTROL |                                                  |
| SHEET TITLE:                                         |                                                  |
| PROJECT:                                             | CULVERTCITY HIGUERA STREET<br>BRIDGE REPLACEMENT |
| ADDRESS:                                             | HIGUERA STREET<br>CULVERTCITY CALIFORNIA         |



Z:\Dropbox\IDC\CAD\206-01-10\_Culver\_City\FINAL Bridge\53x0876-s-s.sdd\_x3-110.dwg [Structure Appr. Drain Detail] Wed, 12 Jun 2019, 2:46 PM - IDONEI  
THE CITY OF CULVER CITY OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

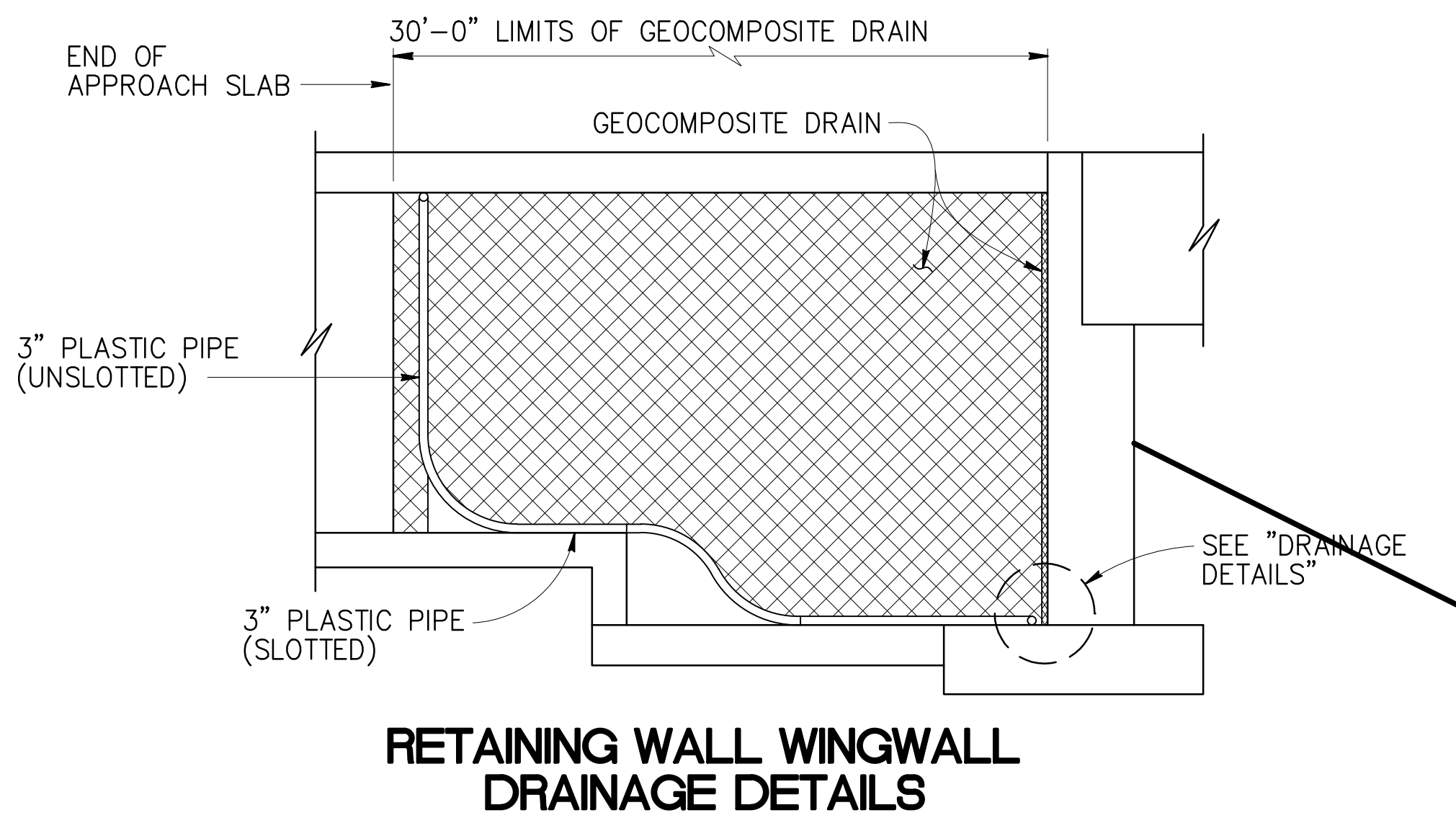
REVISION DATES  
(DESIGN STAGE ONLY)

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L

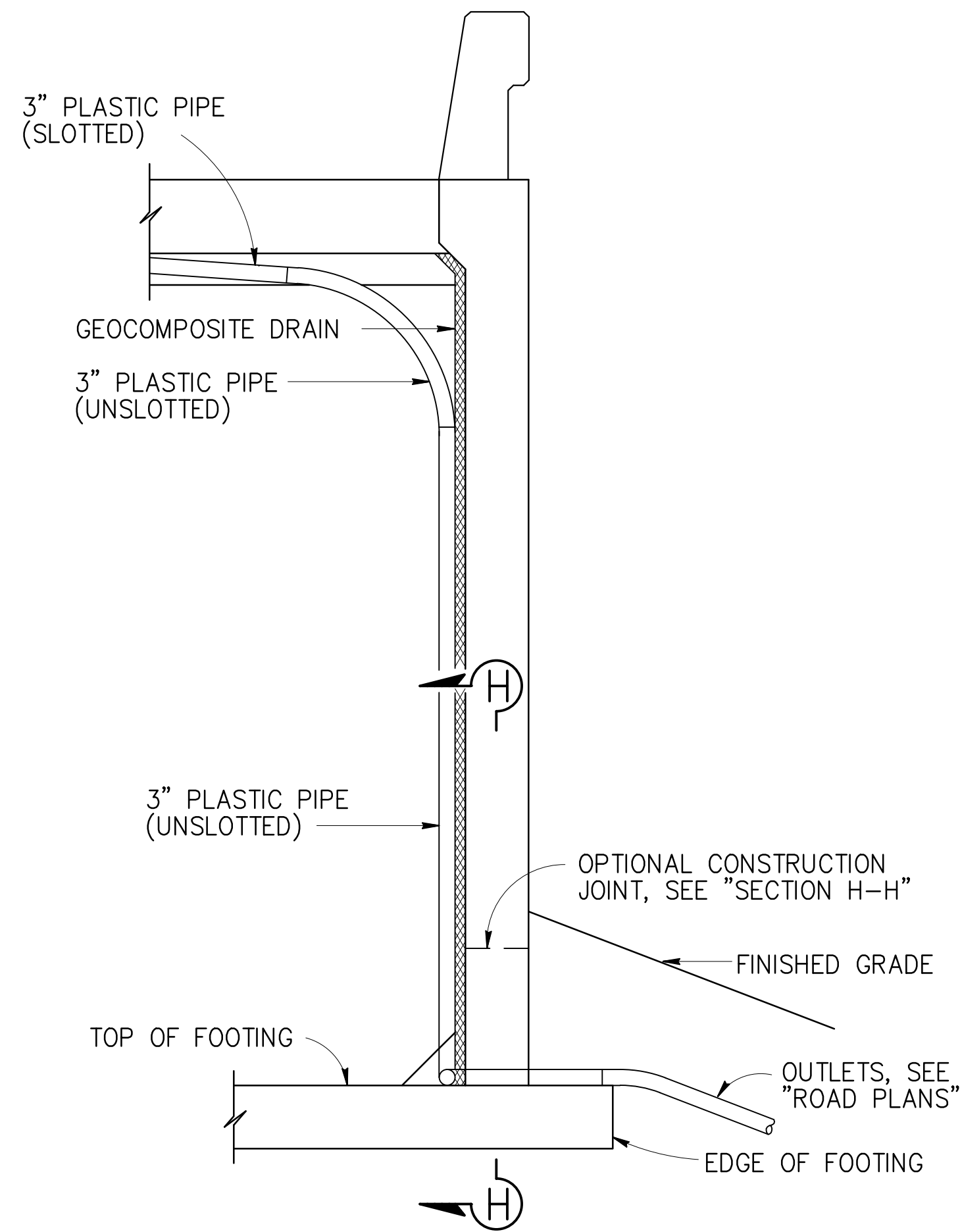


\* FOR PIPE LAYOUT AT STAGGERED END, SEE "DETAIL B"

**DETAIL B**  
No Scale



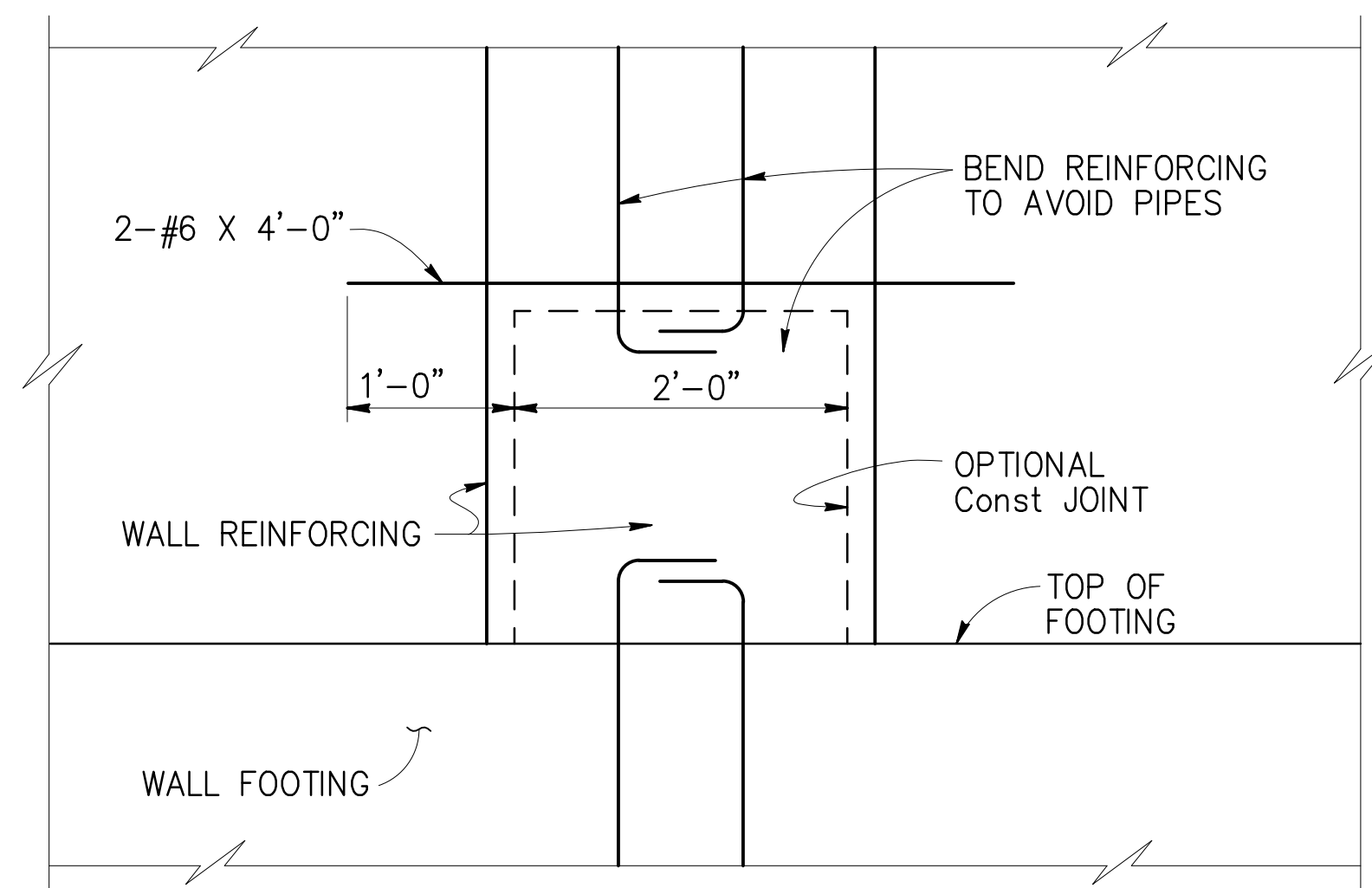
**SECTION G-G**  
 $\frac{1}{4}'' = 1'-0''$



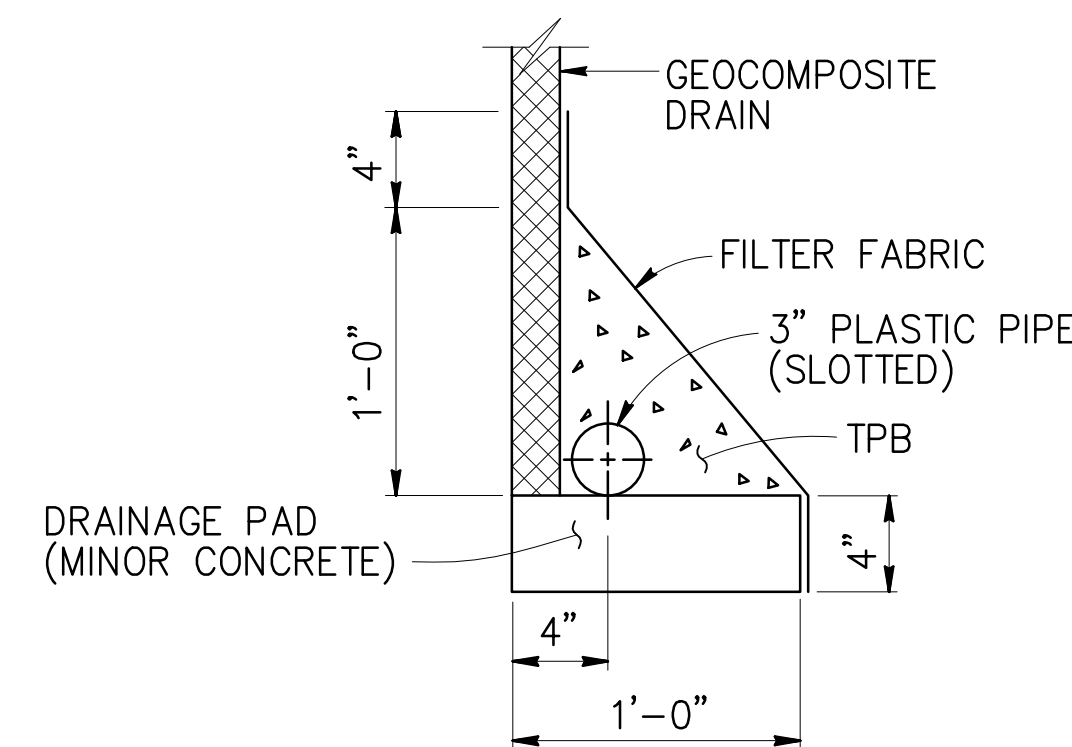
**SECTION E-E**

$\frac{1}{2}'' = 1'-0''$

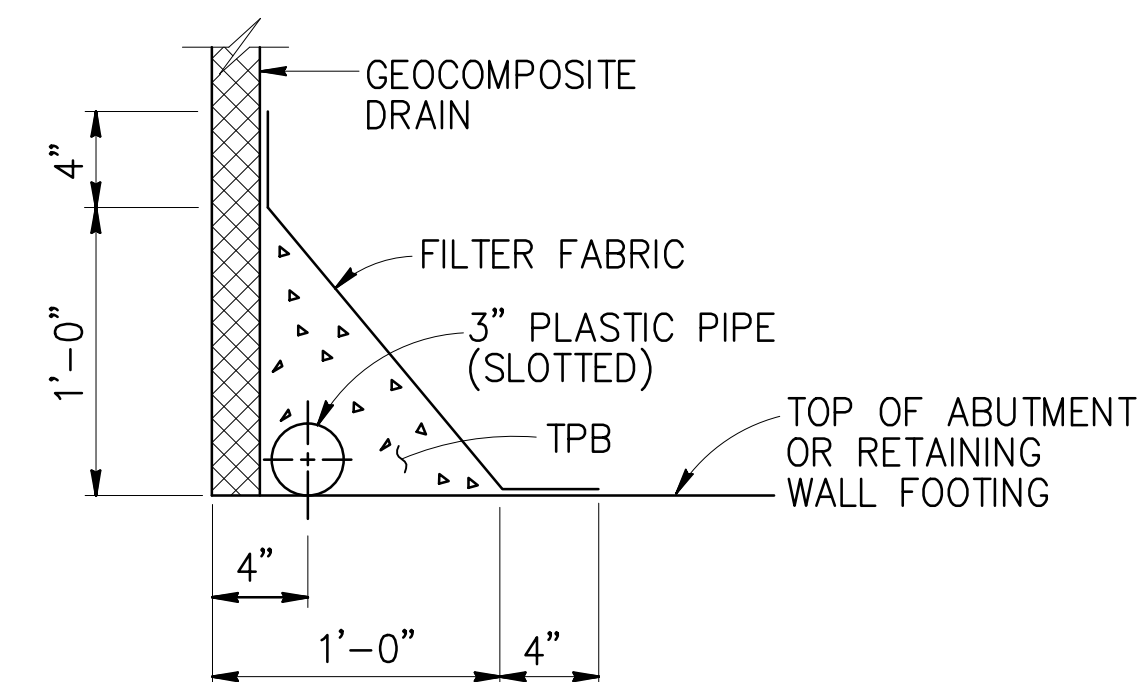
NOTE: Bends and junctions in 3" plastic pipe are 30" radius Min



**SECTION H-H**  
 $1'' = 1'-0''$



**WITHOUT FOOTING**



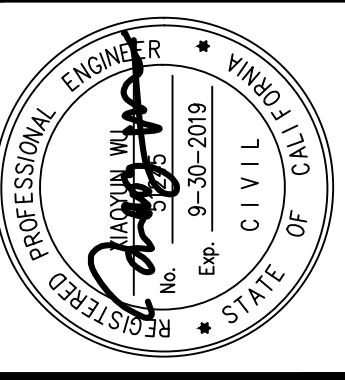
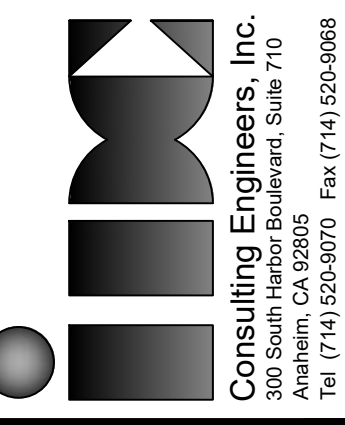
**WITH FOOTING**

**DRAINAGE DETAILS**  
 $1\frac{1}{2}'' = 1'-0''$

NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



| DATE:      | BY: |
|------------|-----|
|            |     |
| REVISIONS: |     |
|            |     |



| APPROVED                                                                   | DATE        |
|----------------------------------------------------------------------------|-------------|
| CHARLES D. HERBERTSON, P.E., L.S.<br>PUBLIC WORKS DIRECTOR / CITY ENGINEER | 10/04/16    |
| PROJECT ENGINEER:                                                          | S. SHARIFAN |
| DESIGNED BY:                                                               | L. LIU      |
| DRAWN BY:                                                                  | G. ESTEPA   |
| CHECKED BY:                                                                | M. SOLTANI  |

| SHEET TITLE: | STRUCTURE APPROACH DRAINAGE DETAILS             |
|--------------|-------------------------------------------------|
| PROJECT:     | CULVERCITY HIGUERA STREET<br>BRIDGE REPLACEMENT |
| ADDRESS:     | HIGUERA STREET<br>CULVERCITY CALIFORNIA         |

DRAWING NO.

**S-20**

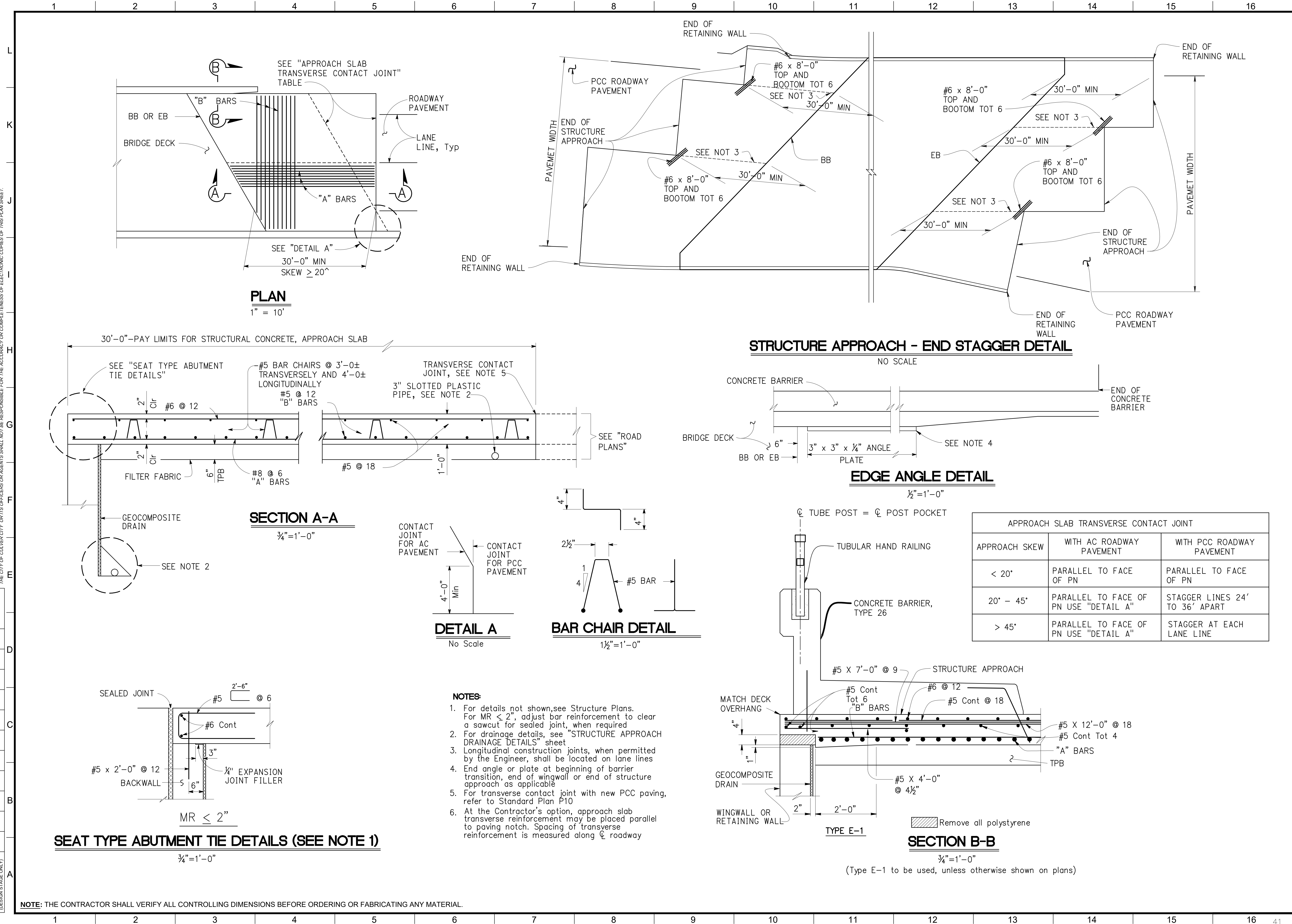
SHEET 40 OF 45 SHEETS

CITY OF CULVER CITY DEPARTMENT OF PUBLIC WORKS



Z:\Dropbox\IDC\CAO\206-01-10\_Culver\_City\FINAL Bridge\530876-x-sq\_x83-120.dwg [Structure Appr. Type] Wed, 12 Jun 2019, 2:46 PM - IDINET

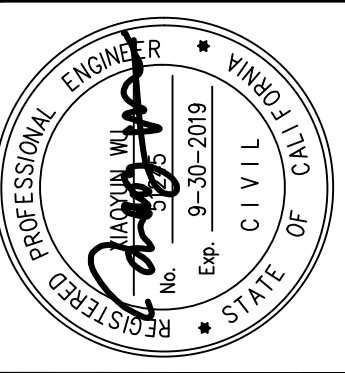
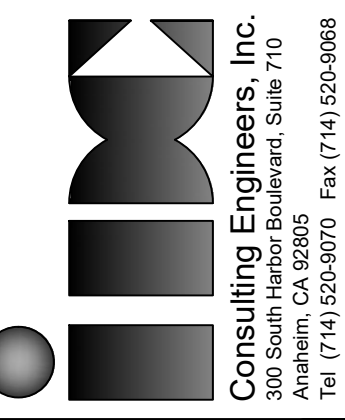
REVISION DATES  
(DESIGN STAGE ONLY)



NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



|            |     |
|------------|-----|
| DATE:      | BY: |
| REVISIONS: |     |
| NO         |     |



|                   |             |
|-------------------|-------------|
| APPROVED          | DATE        |
| PROJECT ENGINEER: | S. SHARIFAN |
| DESIGNED BY:      | L. LIU      |
| DRAWN BY:         | G. ESTEPA   |
| CHECKED BY:       | M. SOLTANI  |

|              |                                              |
|--------------|----------------------------------------------|
| SHEET TITLE: | STRUCTURE APPROACH TYPE N(30S)               |
| PROJECT:     | CULVERCITY HIGUERA STREET BRIDGE REPLACEMENT |
| ADDRESS:     | HIGUERA STREET CULVERCITY CALIFORNIA         |

DRAWING NO.

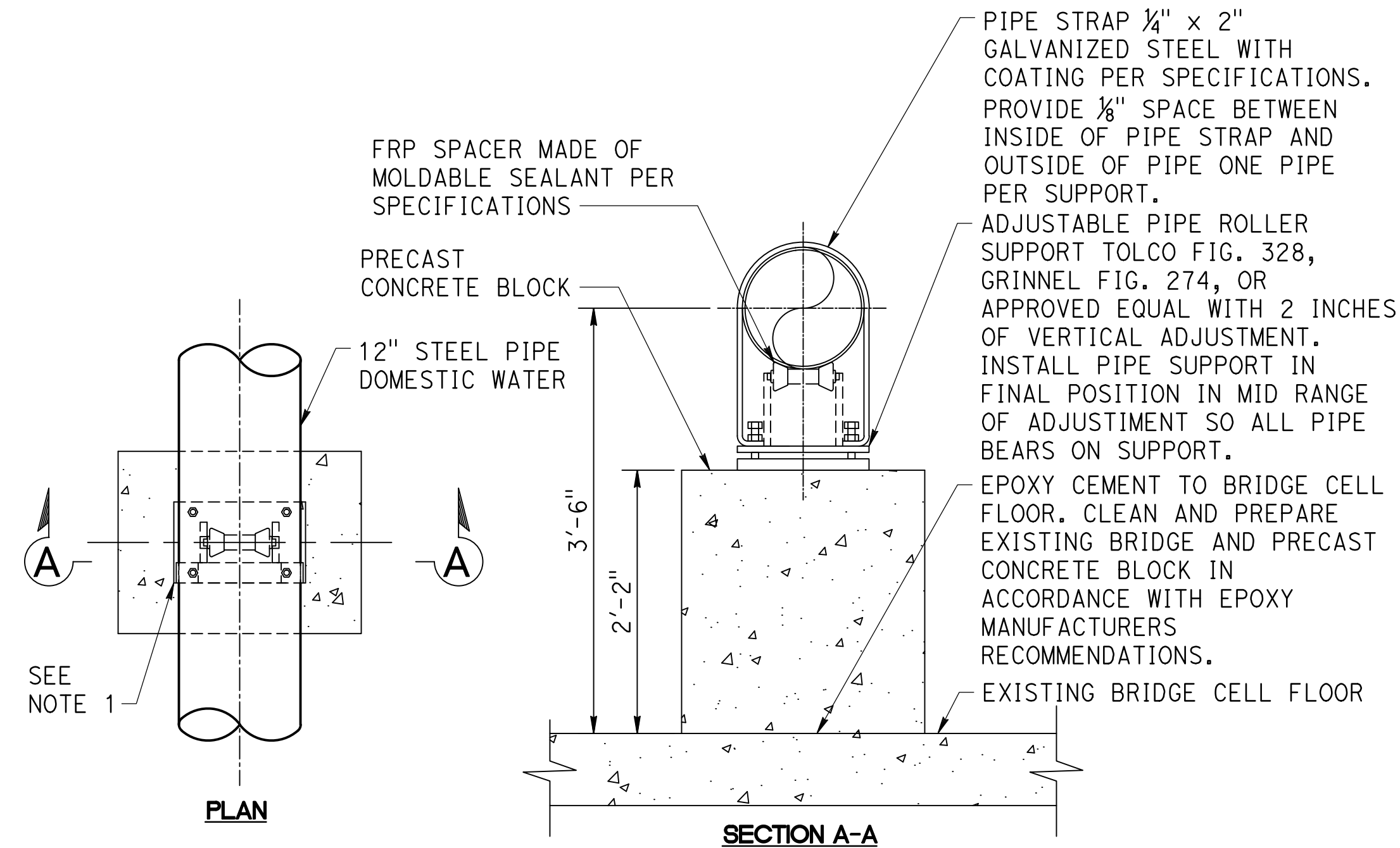
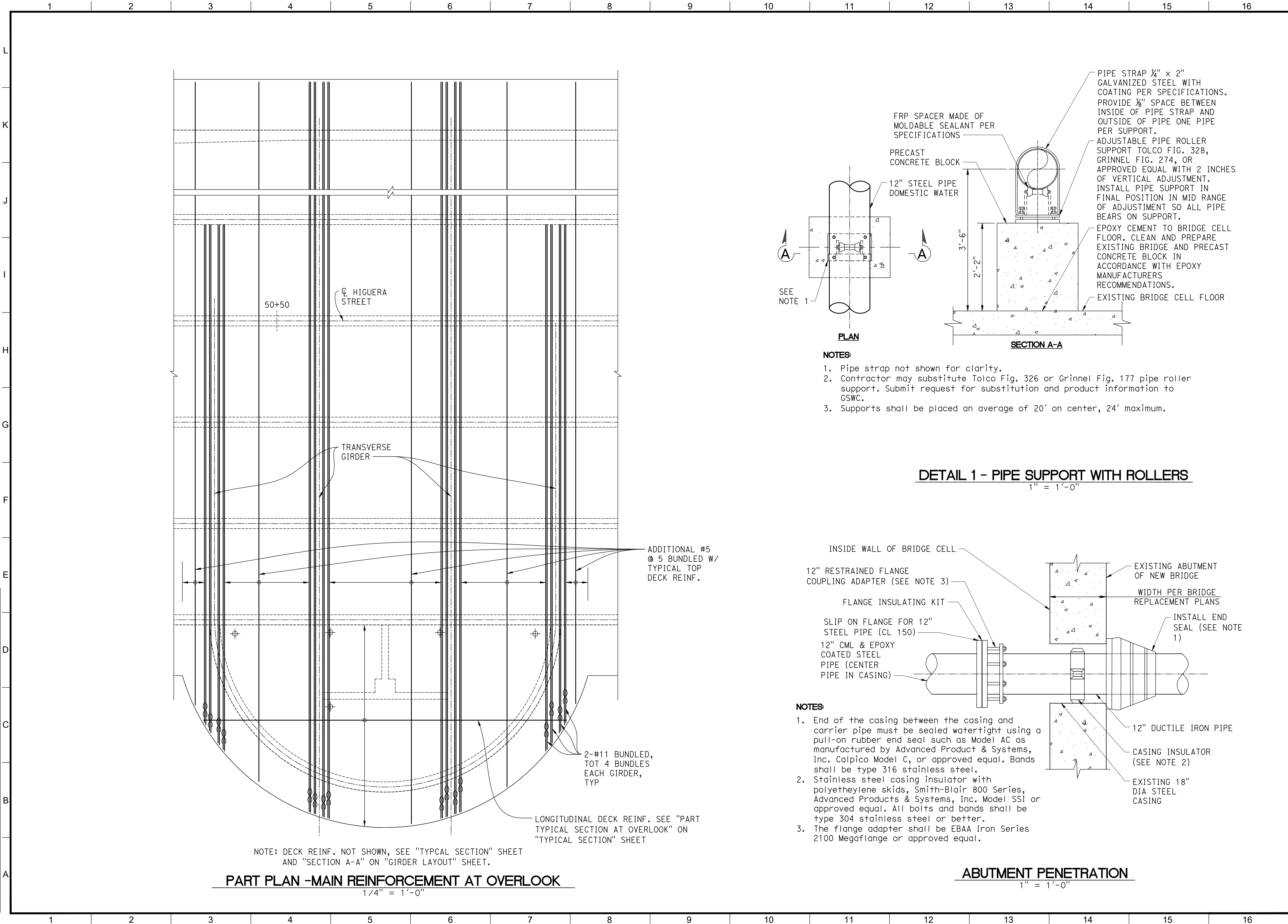
S-21

SHEET 41 OF 45 SHEETS



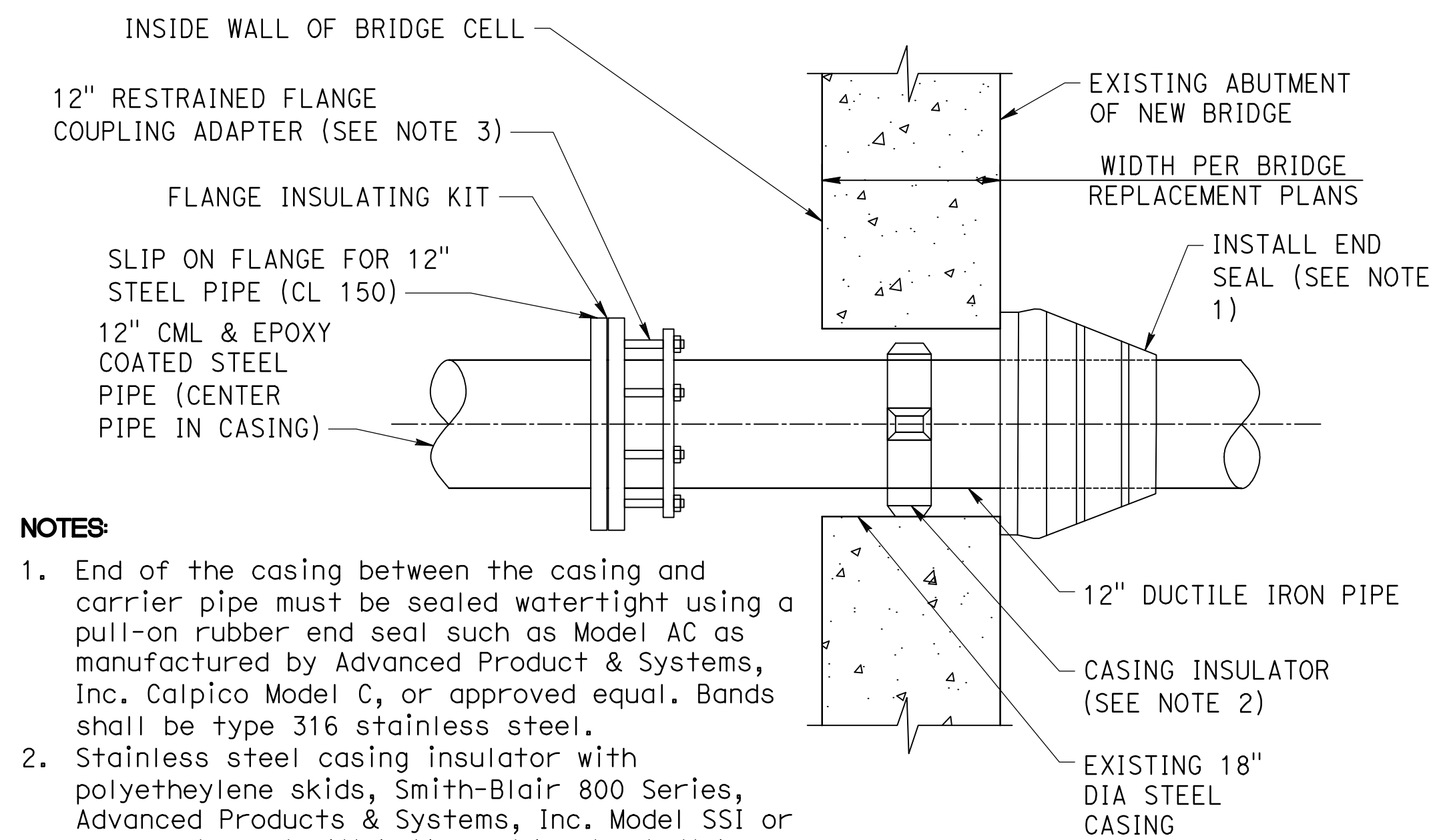
Z:\Dropbox\IDC\CAO\206-01-10\_Culver\_City\FINAL Bridge\530876-u-misc\01.dwg [Miscellaneous Details] Wed, 12 Jun, 2019, 2:47 PM - IDCNET  
THE CITY OF CULVER CITY OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES  
(DESIGN STAGE ONLY)



- NOTES:**
1. Pipe strap not shown for clarity.
  2. Contractor may substitute Tolco Fig. 326 or Grinnel Fig. 177 pipe roller support. Submit request for substitution and product information to GSWC.
  3. Supports shall be placed an average of 20' on center, 24' maximum.

**DETAIL 1 - PIPE SUPPORT WITH ROLLERS**  
1" = 1'-0"

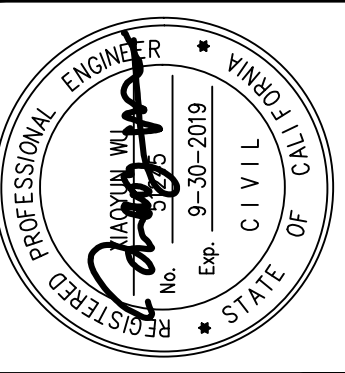
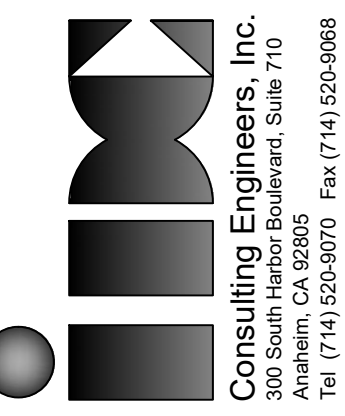


- NOTES:**
1. End of the casing between the casing and carrier pipe must be sealed watertight using a pull-on rubber end seal such as Model AC as manufactured by Advanced Product & Systems, Inc. Calpico Model C, or approved equal. Bands shall be type 316 stainless steel.
  2. Stainless steel casing insulator with polyethylene skids, Smith-Blair 800 Series, Advanced Products & Systems, Inc. Model SSI or approved equal. All bolts and bands shall be type 304 stainless steel or better.
  3. The flange adapter shall be EBAA Iron Series 2100 Megaflange or approved equal.

**ABUTMENT PENETRATION**  
1" = 1'-0"



| NO. | REVISIONS | DATE | BY |
|-----|-----------|------|----|
|     |           |      |    |
|     |           |      |    |
|     |           |      |    |
|     |           |      |    |

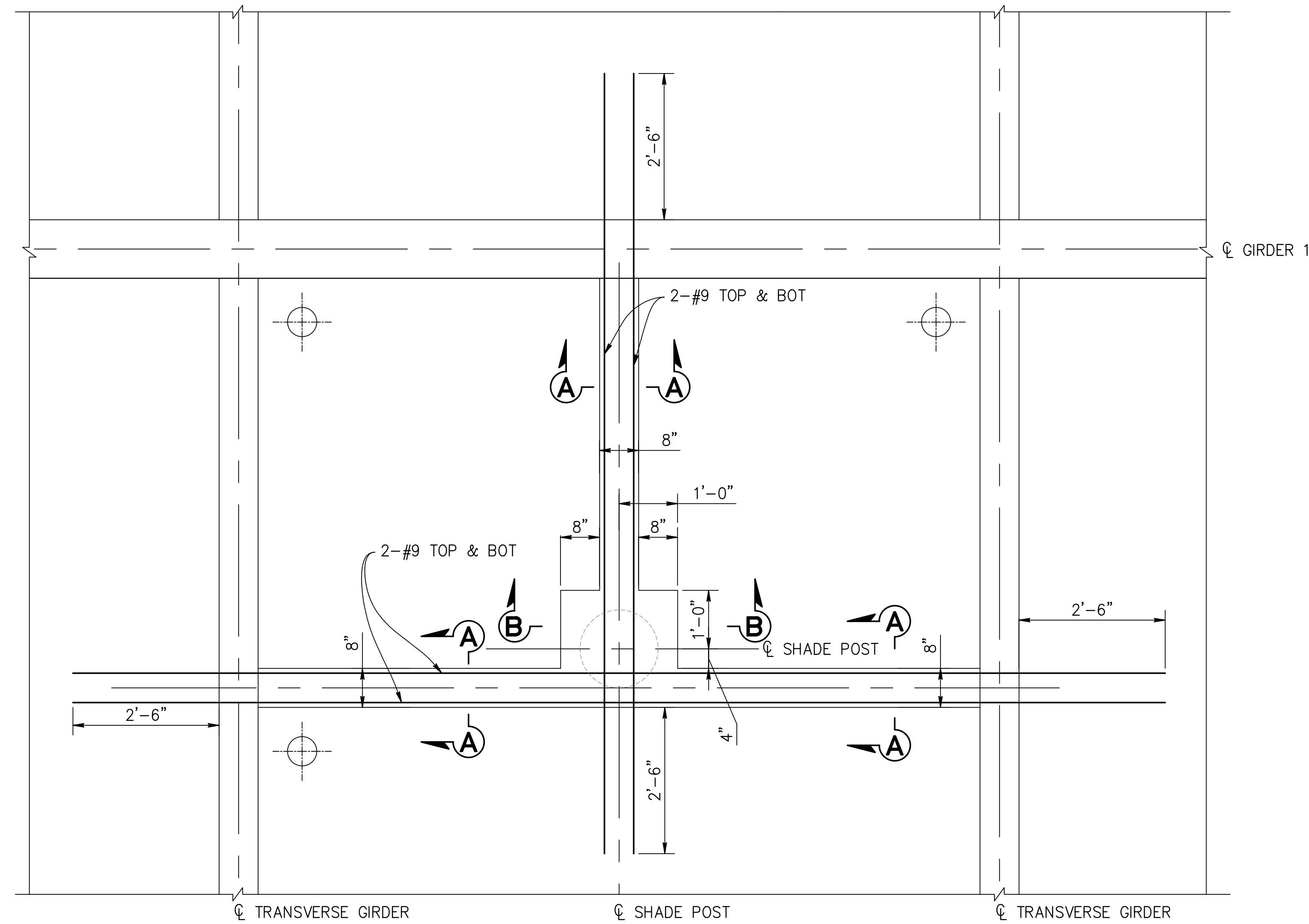


| APPROVED                                                                   | DATE        |
|----------------------------------------------------------------------------|-------------|
| CHARLES D. HERBERTSON, P.E., L.S.<br>PUBLIC WORKS DIRECTOR / CITY ENGINEER | 10/04/16    |
| PROJECT ENGINEER:                                                          | S. SHARIFAN |
| DESIGNED BY:                                                               | L. LIU      |
| DRAWN BY:                                                                  | G. ESTEPA   |
| CHECKED BY:                                                                | M. SOLTANI  |
| DATE                                                                       | 2/27/15     |
| DATE                                                                       | 2/27/15     |
| DATE                                                                       | 2/27/15     |

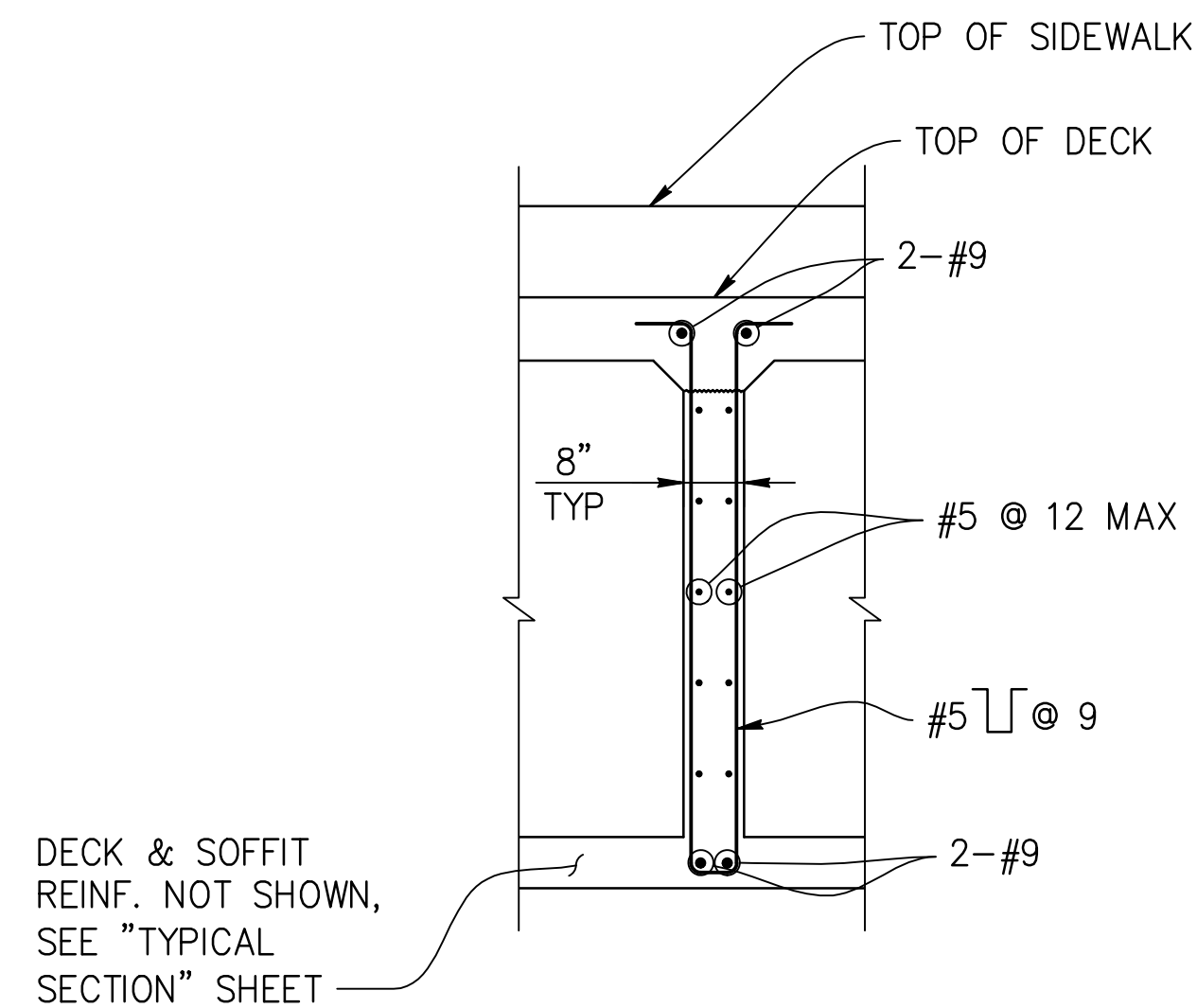
|              |                                              |
|--------------|----------------------------------------------|
| SHEET TITLE: | MISCELLANEOUS DETAILS NO.1                   |
| PROJECT:     | CULVERCITY HIGUERA STREET BRIDGE REPLACEMENT |
| ADDRESS:     | HIGUERA STREET CULVERCITY CALIFORNIA         |

DRAWING NO.

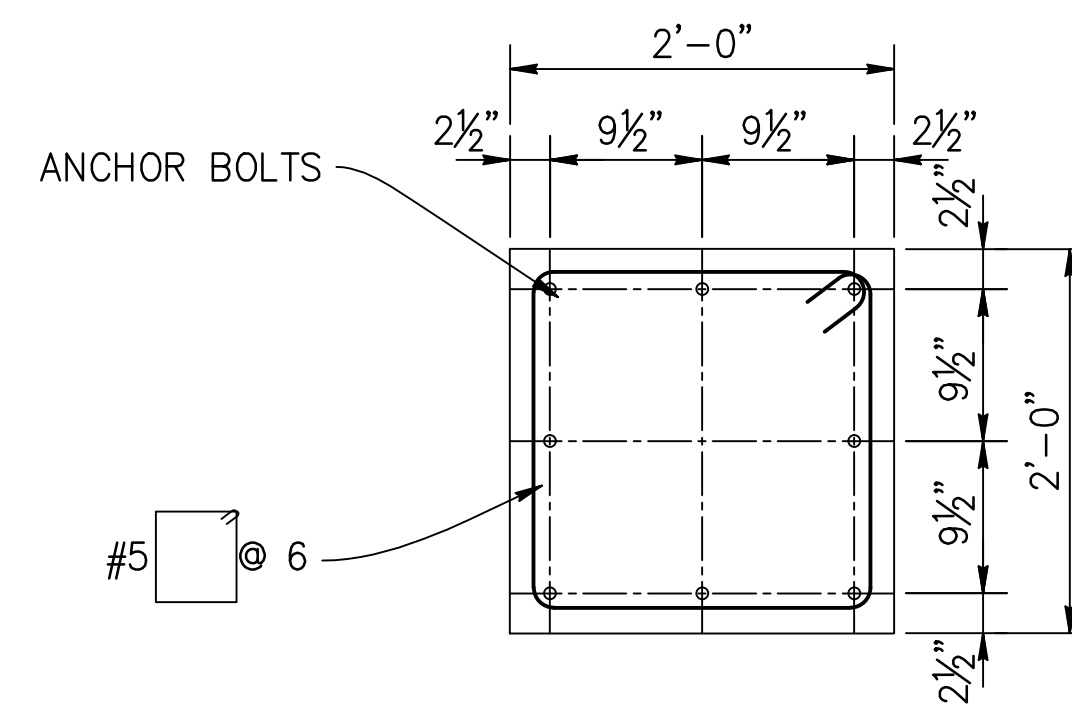


[illegible]

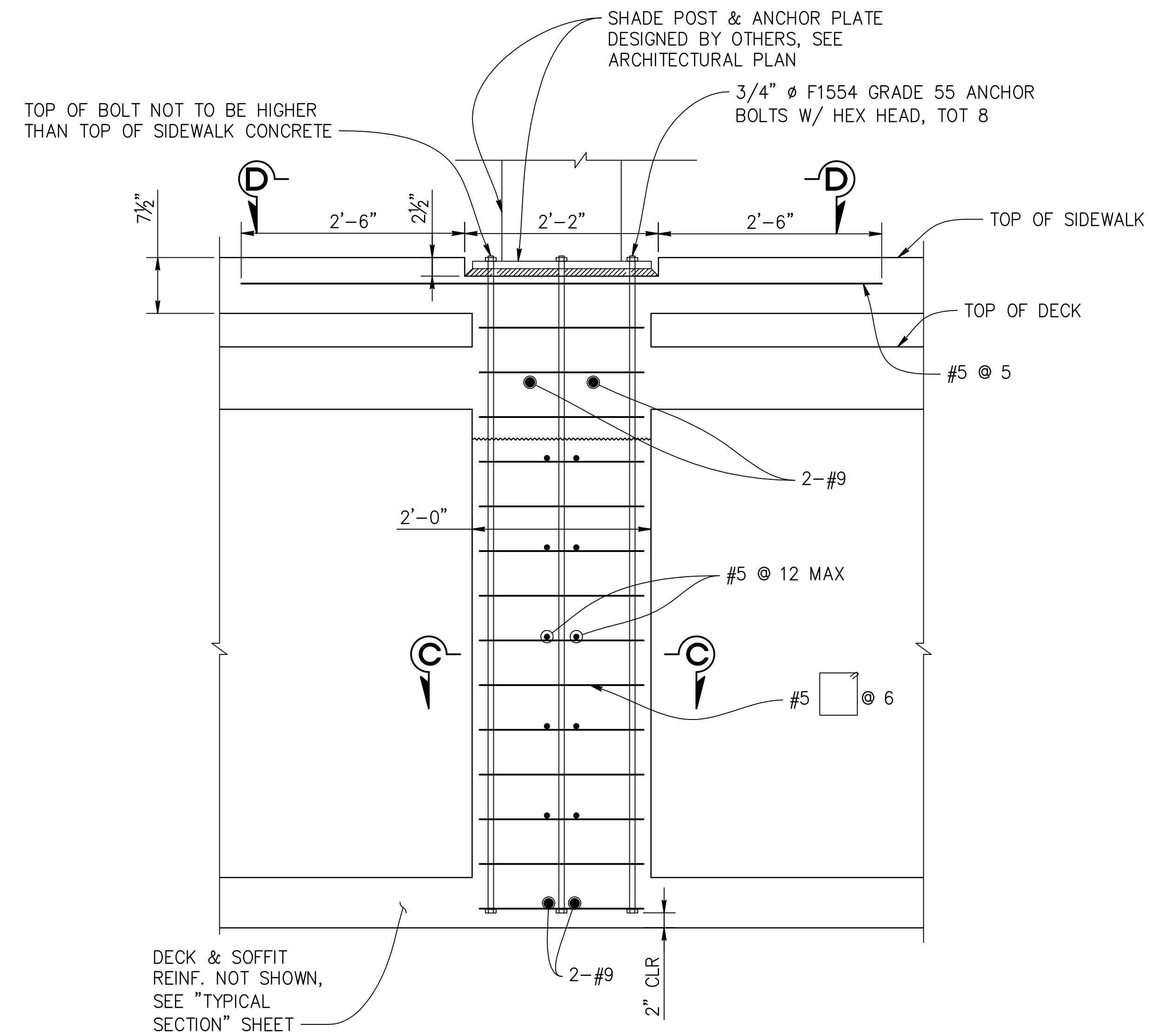
PLAN AT SHADE POST  
3/4" = 1'-0"



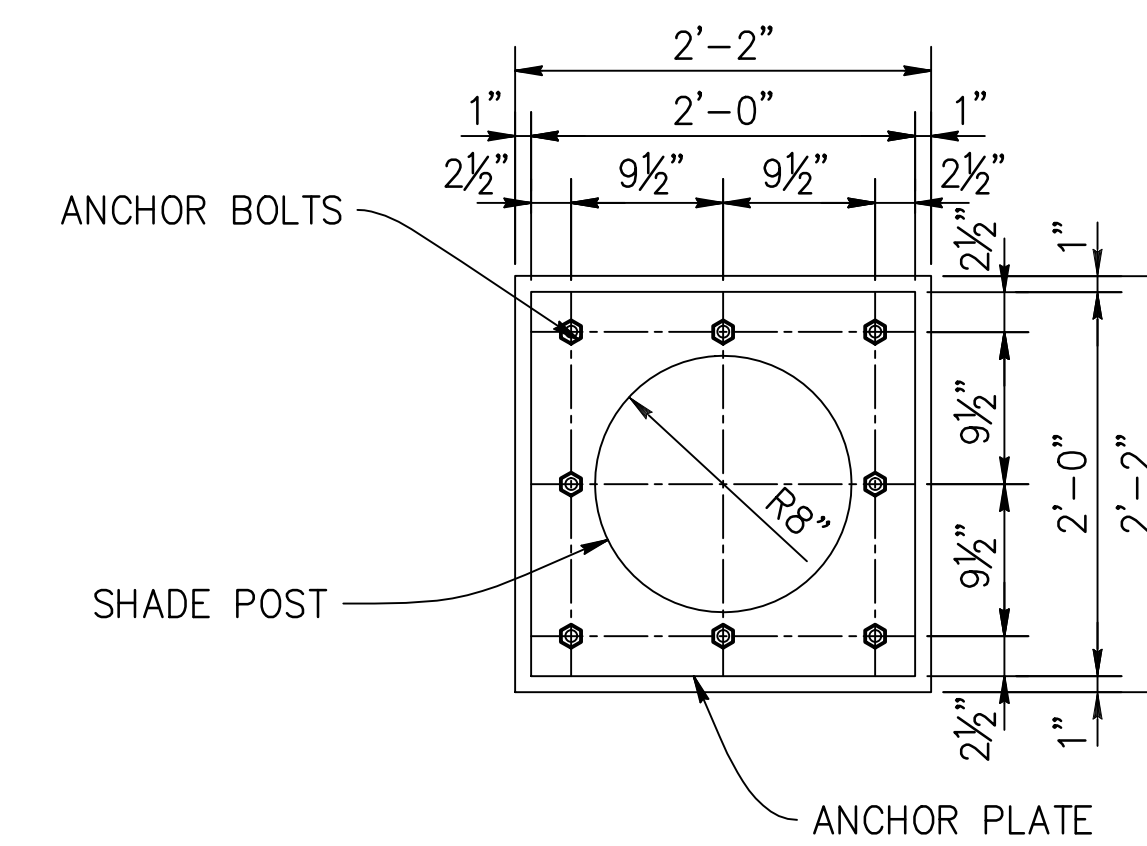
**SECTION A-A**  
NO SCALE



**SECTION C-C**  
1" = 1'-0"

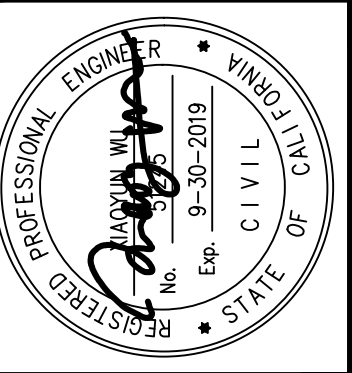
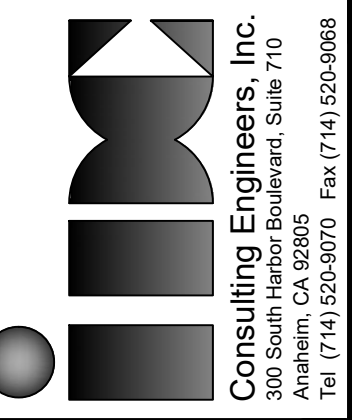


**SECTION B-B**  
NO SCALE



**SECTION D-D**  
1" = 1'-0"

**NOTE:** THE CONTRACTOR SHALL VERIFY ALL CONTROLLING DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

[illegible]

| APPROVED _____    |             | DATE     |
|-------------------|-------------|----------|
| PROJECT ENGINEER: | S. SHARIFAN | 10/04/16 |
| DESIGNED BY:      | L. LIU      | 2/27/15  |
| DRAWN BY:         | G. ESTEPA   | 2/27/15  |
| CHECKED BY:       | M. SOLTANI  | 2/27/15  |

|                                                      |                                                 |
|------------------------------------------------------|-------------------------------------------------|
| SEE SHEET T11-01 FOR HORIZONTAL AND VERTICAL CONTROL |                                                 |
| SHEET TITLE:                                         |                                                 |
| MISCELLANEOUS DETAILS NO.2                           |                                                 |
| PROJECT:                                             | CULVERTITY HIGUERA STREET<br>BRIDGE REPLACEMENT |
| ADDRESS:                                             | HIGUERA STREET<br>CULVERTITY CALIFORNIA         |

DRAWING NO.

**S-23**

SHEET 43 OF 45 SHEETS



### CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test (ASTM D 1586)

| SPT   | Soil            | Consistency | Notes     |
|-------|-----------------|-------------|-----------|
| 0-4   | Very Loose      | Cohesive    | Very Soft |
| 5-10  | Loose           |             |           |
| 11-20 | Medium Dense    | Cohesive    | Soft      |
| 21-30 | Dense           |             |           |
| 31-50 | Very Dense      | Cohesive    | Hard      |
| >50   | Extremely Dense |             |           |

### LEGEND OF EARTH MATERIALS (USCS)

BASED ON ASTM D2487, D2488

| Symbol    | Soil Type        | Notes |
|-----------|------------------|-------|
| [Pattern] | Gravel (G)       |       |
| [Pattern] | Coarse Sand (SC) |       |
| [Pattern] | Medium Sand (SM) |       |
| [Pattern] | Fine Sand (FS)   |       |
| [Pattern] | Silt (S)         |       |
| [Pattern] | Clay (C)         |       |
| [Pattern] | Organic Soil     |       |
| [Pattern] | Peat             |       |
| [Pattern] | Fill (F)         |       |
| [Pattern] | Rock             |       |
| [Pattern] | Metamorphic Rock |       |
| [Pattern] | Igneous Rock     |       |

### IN-SITU LAB & FIELD TEST DESIGNATIONS

| Designation | Test Description              |
|-------------|-------------------------------|
| (A)         | Atterberg Limits              |
| (B)         | Chemical Analysis             |
| (C)         | Consolidation                 |
| (D)         | Direct Shear                  |
| (E)         | Expansion Index               |
| (F)         | Moisture Density Relationship |
| (G)         | Penetration Test              |
| (H)         | Triaxial Test                 |
| (I)         | Unconfined Compression        |
| (J)         | Uniaxial Tensile              |

### TYPE OF BORINGS

| Symbol | Boring Type                  |
|--------|------------------------------|
| ●      | 2 1/4" Cone Penetration      |
| ▲      | Rotary Wash                  |
| ■      | Electricity Cone Penetration |
| □      | Auger Boring                 |
| ▤      | Test Pit                     |
| ◇      | Handmade Core                |
| ▥      | Sol Tube                     |

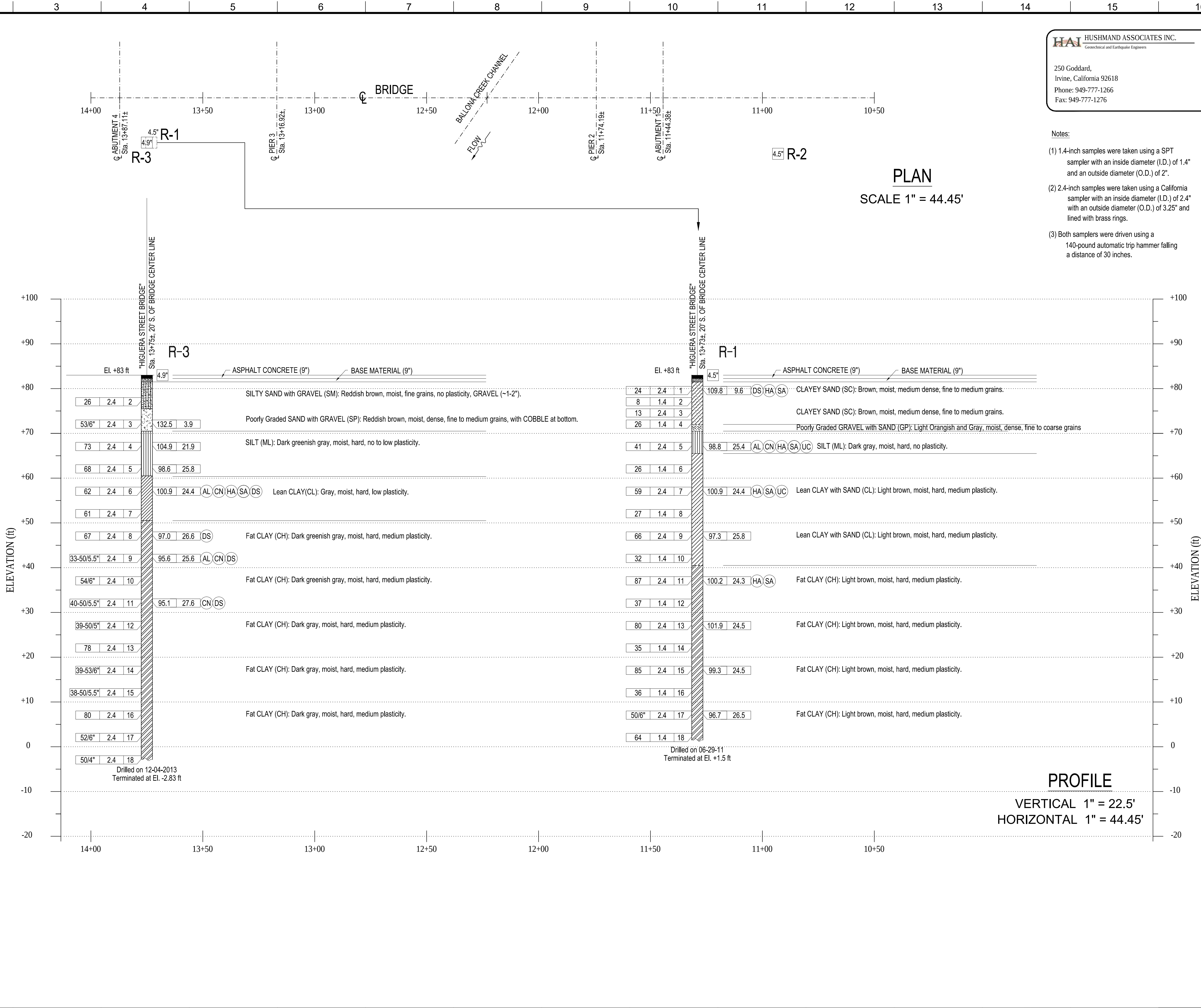
### IN-SITU LAB & FIELD TEST DESIGNATIONS

| Designation | Test Description              |
|-------------|-------------------------------|
| (A)         | Atterberg Limits              |
| (B)         | Chemical Analysis             |
| (C)         | Consolidation                 |
| (D)         | Direct Shear                  |
| (E)         | Expansion Index               |
| (F)         | Moisture Density Relationship |
| (G)         | Penetration Test              |
| (H)         | Triaxial Test                 |
| (I)         | Unconfined Compression        |
| (J)         | Uniaxial Tensile              |

### LEGEND OF BORING OPERATIONS

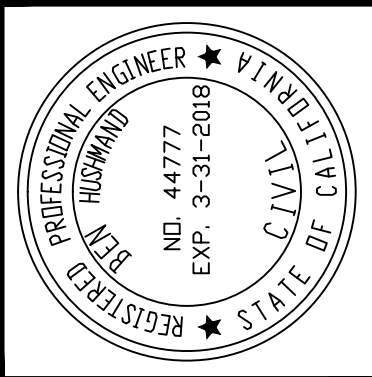
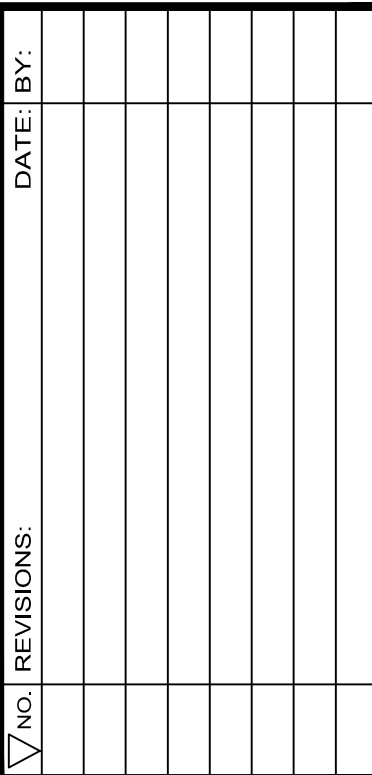
The diagram illustrates a boring operation with the following data points and measurements:

- Sample No.:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.
- Size of Sampler (in):** 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0, 13.5, 14.0, 14.5, 15.0, 15.5, 16.0, 16.5, 17.0, 17.5, 18.0, 18.5, 19.0, 19.5, 20.0, 20.5, 21.0, 21.5, 22.0, 22.5, 23.0, 23.5, 24.0, 24.5, 25.0, 25.5, 26.0, 26.5, 27.0, 27.5, 28.0, 28.5, 29.0, 29.5, 30.0, 30.5, 31.0, 31.5, 32.0, 32.5, 33.0, 33.5, 34.0, 34.5, 35.0, 35.5, 36.0, 36.5, 37.0, 37.5, 38.0, 38.5, 39.0, 39.5, 40.0, 40.5, 41.0, 41.5, 42.0, 42.5, 43.0, 43.5, 44.0, 44.5, 45.0, 45.5, 46.0, 46.5, 47.0, 47.5, 48.0, 48.5, 49.0, 49.5, 50.0, 50.5, 51.0, 51.5, 52.0, 52.5, 53.0, 53.5, 54.0, 54.5, 55.0, 55.5, 56.0, 56.5, 57.0, 57.5, 58.0, 58.5, 59.0, 59.5, 60.0, 60.5, 61.0, 61.5, 62.0, 62.5, 63.0, 63.5, 64.0, 64.5, 65.0, 65.5, 66.0, 66.5, 67.0, 67.5, 68.0, 68.5, 69.0, 69.5, 70.0, 70.5, 71.0, 71.5, 72.0, 72.5, 73.0, 73.5, 74.0, 74.5, 75.0, 75.5, 76.0, 76.5, 77.0, 77.5, 78.0, 78.5, 79.0, 79.5, 80.0, 80.5, 81.0, 81.5, 82.0, 82.5, 83.0, 83.5, 84.0, 84.5, 85.0, 85.5, 86.0, 86.5, 87.0, 87.5, 88.0, 88.5, 89.0, 89.5, 90.0, 90.5, 91.0, 91.5, 92.0, 92.5, 93.0, 93.5, 94.0, 94.5, 95.0, 95.5, 96.0, 96.5, 97.0, 97.5, 98.0, 98.5, 99.0, 99.5, 100.0.
- Penetration Rate (in/min):** 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0, 13.5, 14.0, 14.5, 15.0, 15.5, 16.0, 16.5, 17.0, 17.5, 18.0, 18.5, 19.0, 19.5, 20.0, 20.5, 21.0, 21.5, 22.0, 22.5, 23.0, 23.5, 24.0, 24.5, 25.0, 25.5, 26.0, 26.5, 27.0, 27.5, 28.0, 28.5, 29.0, 29.5, 30.0, 30.5, 31.0, 31.5, 32.0, 32.5, 33.0, 33.5, 34.0, 34.5, 35.0, 35.5, 36.0, 36.5, 37.0, 37.5, 38.0, 38.5, 39.0, 39.5, 40.0, 40.5, 41.0, 41.5, 42.0, 42.5, 43.0, 43.5, 44.0, 44.5, 45.0, 45.5, 46.0, 46.5, 47.0, 47.5, 48.0, 48.5, 49.0, 49.5, 50.0, 50.5, 51.0, 51.5, 52.0, 52.5, 53.0, 53.5,



250 Goddard,  
Irvine, California 92618  
Phone: 949-777-1266  
Fax: 949-777-1276

- (1) 1.4-inch samples were taken using a SPT sampler with an inside diameter (I.D.) of 1.4" and an outside diameter (O.D.) of 2".
- (2) 2.4-inch samples were taken using a California sampler with an inside diameter (I.D.) of 2.4" with an outside diameter (O.D.) of 3.25" and lined with brass rings.
- (3) Both samplers were driven using a 140-pound automatic trip hammer falling a distance of 30 inches.



|                                                           |               |
|-----------------------------------------------------------|---------------|
| <b>CHARLES D. HERBERTSON, P.E., L.S.</b><br>CITY ENGINEER |               |
| APPROVED _____                                            | DATE 12/15/14 |
| PROJECT ENGINEER: SHAFI SHARIFAN                          |               |
| DESIGNED BY: BEN HUSHMAND                                 |               |
| DRAWN BY:                                                 |               |
| CHECKED BY:                                               |               |

|                                                   |
|---------------------------------------------------|
| SEE SHEET T-1 FOR HORIZONTAL AND VERTICAL CONTROL |
| <b>SHEET TITLE:</b>                               |
| <b>LOG OF TEST BORINGS - 1 &amp; 3</b>            |
| <b>PROJECT:</b>                                   |
| CULVERT CITY HIGUERA STREET<br>BRIDGE REPLACEMENT |
| <b>ADDRESS:</b>                                   |
| HIGUERA STREET<br>CULVERT CITY CALIFORNIA         |



[illegible]

**Notes:**

- 1) 1.4-inch samples were taken using a SPT sampler with an inside diameter (I.D.) of 1.4" and an outside diameter (O.D.) of 2".
- 2) 2.4-inch samples were taken using a California sampler with an inside diameter (I.D.) of 2.4" with an outside diameter (O.D.) of 3.25" and lined with brass rings.
- 3) Both samplers were driven using a 140-pound automatic trip hammer falling a distance of 30 inches.

|                                                                                    |  |            |  |
|------------------------------------------------------------------------------------|--|------------|--|
|  |  | DATE: BY:  |  |
|  |  | REVISIONS: |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  | DATE:      |  |
|  |  | BY:        |  |
|  |  | NO.        |  |
|  |  |            |  |