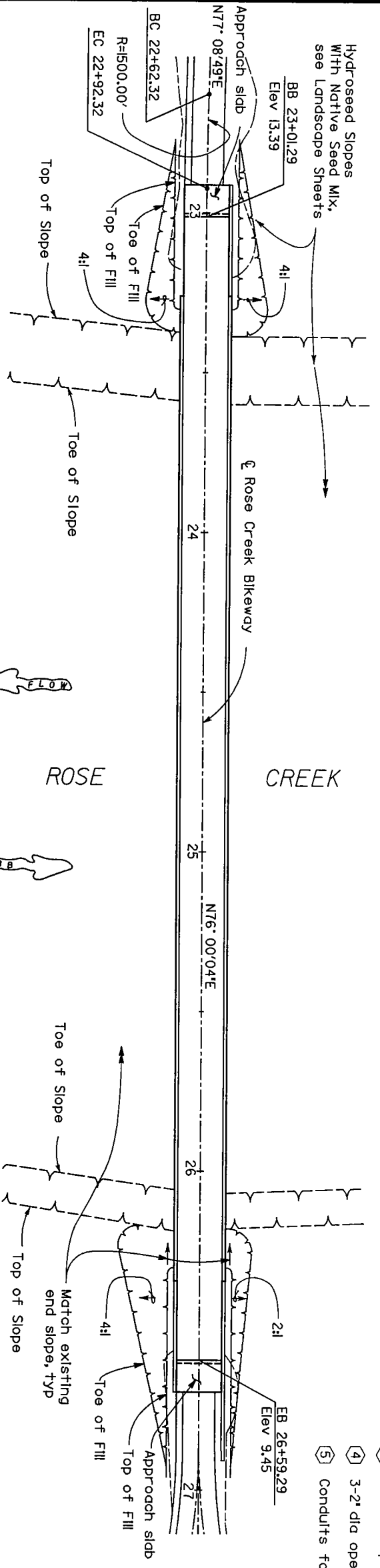


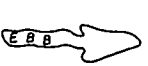
Pile Data Table

Location	Pile Type	Nominal Resistance		Cut-off Elevation	Design Tip Elevation	Specified Tip Elevation
		Compression	Tension			
Abutment 1	84" CIDH	2650 kips	0 kips	3.36'	-120.0'	-120.0'
Abutment 2	84" CIDH	2650 kips	0 kips	0.18'	-120.0'	-120.0'

Design tip elevations are controlled by compression.



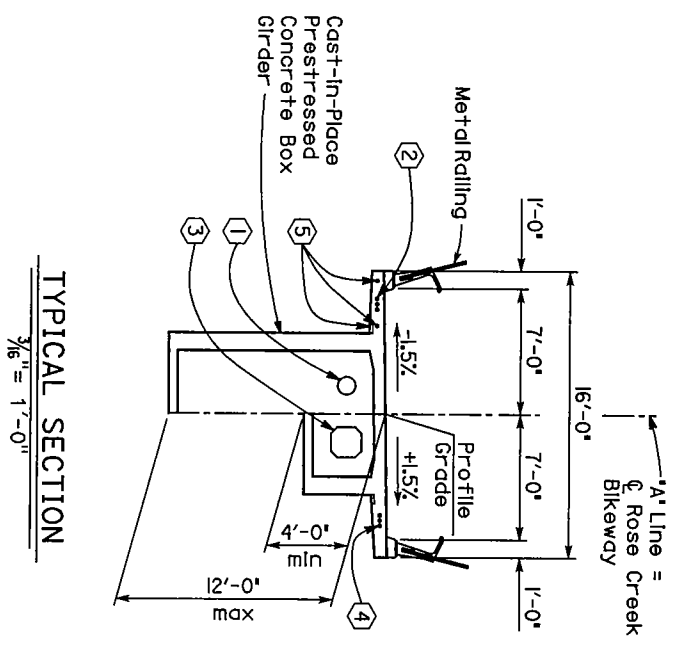
Curve Data  
 Rose Creek Bikeway  
 R = 1500.00'  
 Δ = 1° 08' 45"  
 T = 15.00'  
 L = 30.00'



ROSE

CREEK

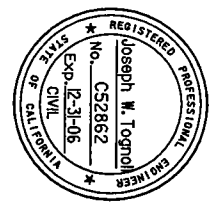
PLAN  
 1" = 20'



- Utilities:
- 1-1/2" dia opening for future (City of San Diego)
  - 3-2" dia openings for cable tv (Time Warner)
  - 1-20"X20" opening for electrical (SDG&E)
  - 3-2" dia openings for future (City of San Diego)
  - Conduits for bridge and bikeway lighting (See Electrical Plans)

Spec No. 3248  
 City Contract, CIP No. 58-147.0

PLANS FOR THE CONSTRUCTION OF:  
 ROSE CREEK BIKEWAY BRIDGE  
 GENERAL PLAN



CITY OF SAN DIEGO, CALIFORNIA  
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
 SHEET 23 OF 35 SHEETS

FOR CITY ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_ BY: \_\_\_\_\_ APPROVED DATE: \_\_\_\_\_  
 FILE NAME: \_\_\_\_\_ DATE: \_\_\_\_\_ TITLE: \_\_\_\_\_

CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION:  
 UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600

**TYLIN INTERNATIONAL**  
 5050 CAMINO DE LA SIERRA, SUITE 204, SAN DIEGO, CA 92108  
 (619) 692-9920  
 ENGINEER OF WORK  
 Joseph W. Tognoli, CS2862  
 PROJECT ENGINEER, Joseph Tognoli, Inc.  
 12-31-06 5-20-06  
 DATE DATE

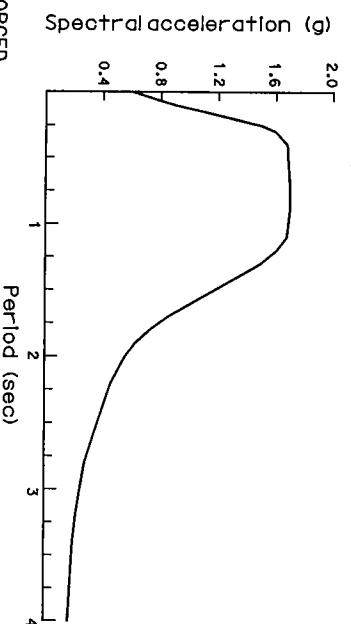
**GENERAL NOTES  
LOAD FACTOR DESIGN**

DESIGN: BRIDGE DESIGN SPECIFICATIONS, SEPTEMBER 2004 (LFD)  
(1996 AASHTO WITH INTERIMS AND REVISIONS BY CALTRANS)

SEISMIC DESIGN: CALTRANS SEISMIC DESIGN CRITERIA (SDC)  
Version 1.3 February 2004

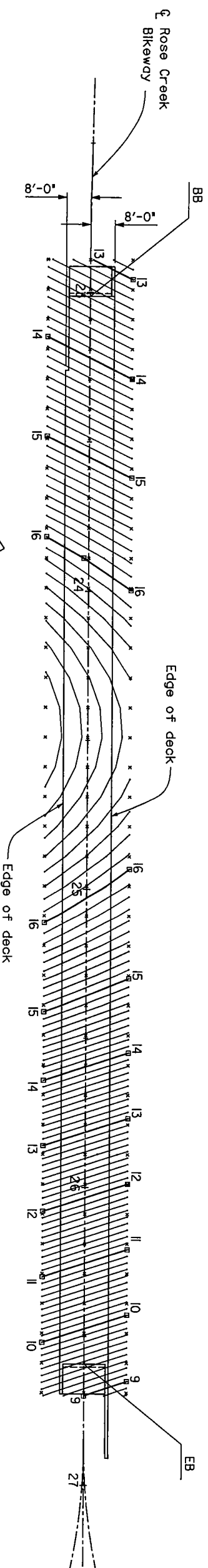
LIVE LOADING: 85 psf pedestrian load and H10 truck  
For areas greater than 400 sf,  
ped LL = 85 (0.25+15/LA) ≥ 65 psf

SEISMIC LOADING: Site Specific ARS Curve



REINFORCED CONCRETE:  
f<sub>y</sub> = 60,000 psi  
f<sub>c</sub> = 3,600 psi  
n = 9  
Transverse Deck Slabs (Working Stress Design)  
f<sub>s</sub> = 20,000 psi  
f<sub>c</sub> = 1,200 psi  
n = 10

PRESTRESSED CONCRETE: See 'Prestressing Notes' on 'Girder Layout' sheet.



PLAN  
1"=20'

**INDEX TO BRIDGE PLANS**

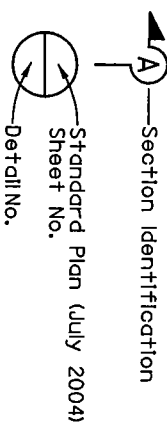
SHEET NO.	TITLE
23	GENERAL PLAN
24	DECK CONTOURS
25	FOUNDATION PLAN
26	ABUTMENT LAYOUT
27	ABUTMENT DETAILS
28	TYPICAL SECTION
29	SUPERSTRUCTURE GEOMETRY
30	GIRDER LAYOUT
31	MISCELLANEOUS DETAILS
32	METAL RAILING DETAILS
33	LOG OF TEST BORINGS No. 1
34	LOG OF TEST BORINGS No. 2
35	LOG OF TEST BORINGS No. 3

**INDEX TO STANDARD PLANS**

THE FOLLOWING STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD PLANS, DATED JULY 2004, ARE A PART OF THESE CONTRACT DRAWINGS.

A10A	ACRONYMS AND ABBREVIATIONS (A-1)
A10B	ACRONYMS AND ABBREVIATIONS (M-1)
A10C	SYMBOLS (SHEET 1 OF 2)
A10D	SYMBOLS (SHEET 2 OF 2)
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-21	JOINT SEALS (MAXIMUM MOVEMENT RATING=50MM)
B7-1	BOX GIRDER DETAILS
B7-10	UTILITY OPENING-BOX GIRDER
RSP B8-5	CAST-IN-PLACE PRESTRESSED GIRDER DETAILS

**PLAN SYMBOLS**



RSP - Revised Standard Plans SPECIFICATIONS

STANDARD SPECIFICATIONS DATED JULY 1999, STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION.  
SPECIAL PROVISIONS FOR THE CONSTRUCTION OF THIS PROJECT.

- Notes:
1. Contour Interval = 0.10 ft.
  2. Contours do not include camber.
  3. ▣ - Indicates even foot contours.
  4. X - Indicates 10' Intervals along Rose Creek Bikeway.

**FINAL PAY QUANTITIES**

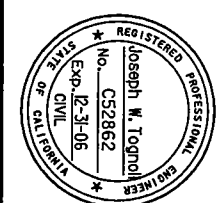
Structure Excavation (Bridge)	302	CY
Structure Backfill (Bridge)	60	CY
Structural Concrete, Bridge	506	CY
Structural Concrete, Approach Slab	8	CY
Anti-Graffiti Coating	10,793	SF
Bar Reinforcing Steel (Bridge)	55,404	LB
High Strength Steel (Epoxy Coated) (Bridge)	135,074	LB
High Strength Steel Reinforcing Steel (Epoxy Coated)	14,034	LB
Prepare and Stain Concrete	10,793	SF
Metal Railing, Type A	611	LF
Metal Railing, Type B	59	LF

**APPROXIMATE QUANTITIES**

84" Cast-in-drilled-hole Concrete Piling	244	LF
Prestressing, Cast-in-place Concrete	1	LS
Joint Seal (Type B - MR 2)	28	LF

Spec No. 3248  
City Contract, CIP No. 58-147.0

PLANS FOR THE CONSTRUCTION OF:  
**ROSE CREEK BIKEWAY BRIDGE  
DECK CONTOURS**



CITY OF SAN DIEGO, CALIFORNIA  
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
SHEET 24 OF 35 SHEETS

V.O. 581470

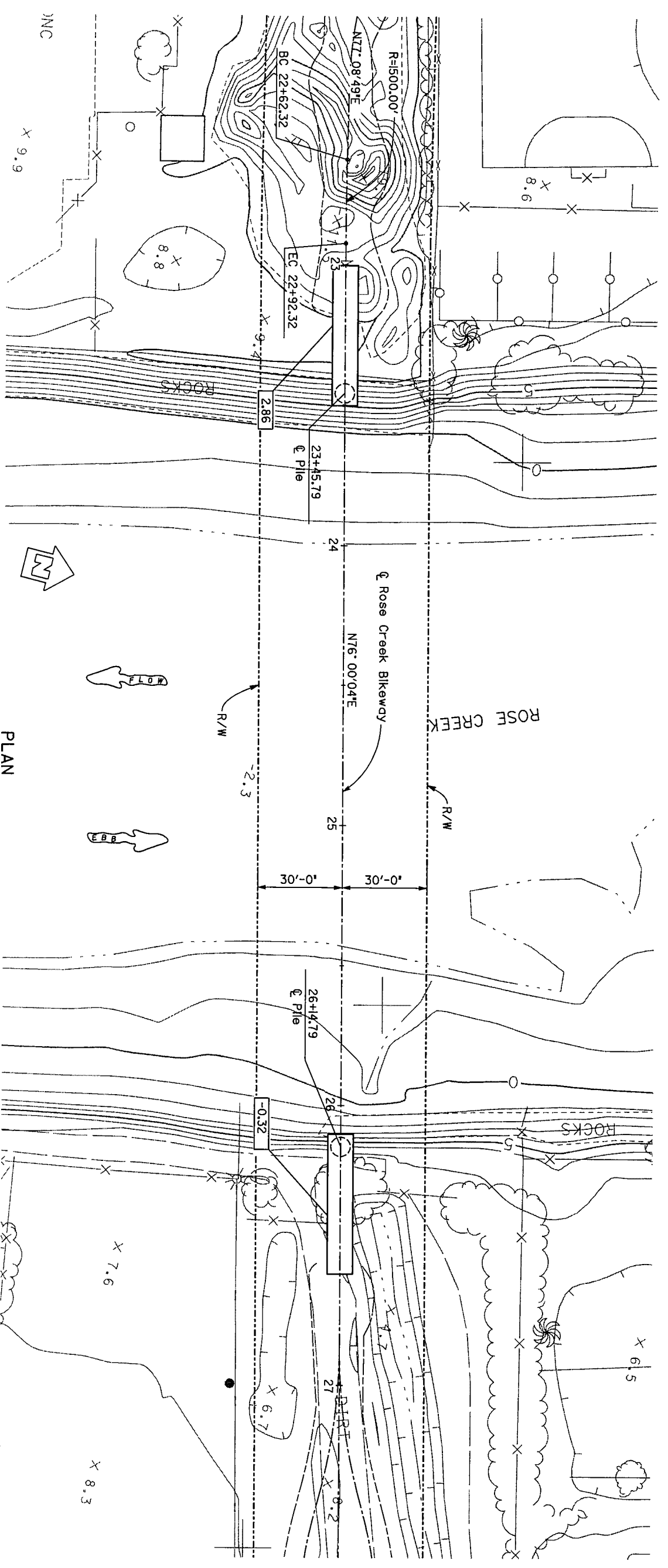
**TYLINTNINTERNATIONAL**  
5040 CAMINO DE LA SIESTA, SUITE 204, SAN DIEGO, CA 92108  
(619) 592-9920  
www.tylin.com

ENGINEER OF WORK  
Joseph W. Tognoli, C52862  
12-31-06 6-20-06

CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION:

UNDERGROUND SERVICE ALERT  
(USA) 1-800-227-2600

FOR CITY ENGINEER	DATE	FOR SECTION HEAD	DATE
DESCRIPTION	BY	APPROVED	DATE
FILE NAME	TYLIN		
DATE			
PROJECT MANAGER	Andreg Domlich		
PROJECT ENGINEER	230-1698		
AS-BUILT			
CONTRACTOR	DATE STARTED		
RESPECTIVE	DATE COMPLETED		
		33769-24-D	



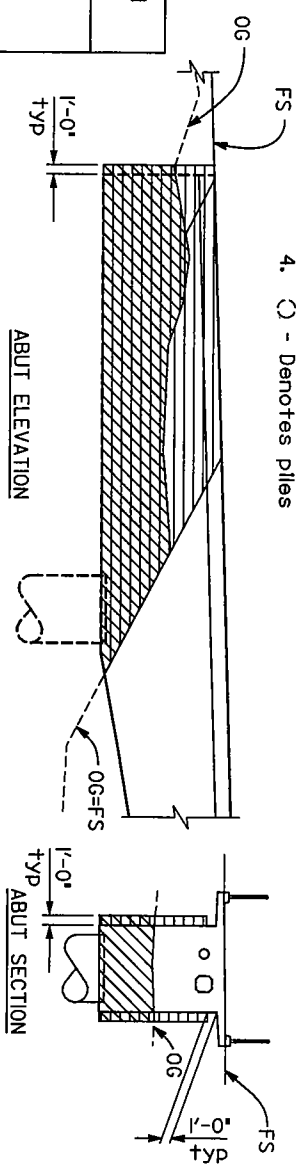
Curve Data  
 Rose Creek Bikeway  
 R = 1500.00'  
 Δ = 1° 08' 45"  
 L = 15.00'  
 L = 50.00'

**HYDROLOGIC DATA SUMMARY**

	Design Flood	100 Yr Flood	Overtopping Flood	Record Flood
Frequency (Years)	50	100	120	N.A.
Discharge (Cubic Ft/Sec)	8,100	12,000	14,000	N.A.
Water Surface Elevation At Bridge (ft)	5.1	6.6	7.5	N.A.
Velocity (ft/s)	4.8	5.8	6.7	N.A.

Flood plain data was based upon information when the plans were prepared. The accuracy of said information is not warranted by the City or T.Y. Lin International. Interested or affected parties should make their own investigations.

- Notes:
1. - Indicates bottom of footing elevation
  2. For Limits of excavation and backfill not shown, see
  3. X - Denotes spot elevations.
  4. - Denotes piers



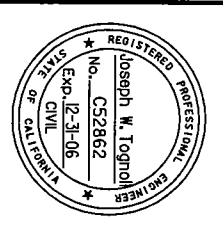
- Legend:
- Indicates Structure Excavation (Bridge)
  - Indicates Structure Backfill (Bridge)

**LIMITS OF PAYMENT FOR EARTHWORK**  
 Not To Scale

**BENCHMARK**  
 2.5" Brass disk on sidewalk at the SE side of the De Anza Cove parking lot  
 Elev = 7.180 ft above MSL, NGVD29

Spec No. 3248  
 City Contract, CIP No. 58-147.0

PLANS FOR THE CONSTRUCTION OF:  
**ROSE CREEK BIKEWAY BRIDGE**  
**FOUNDATION PLAN**



**TYLIN INTERNATIONAL**  
 5020 CAMINO DE LA SIESTA, SUITE 204, SAN DIEGO, CA 92108  
 (619) 592-9220  
**ENGINEER OF WORK**  
 Joseph W. Toptoul, C52862, 12-31-06, 6-20-06  
 PROJECT ENGINEER: Joseph Toptoul, CIVIL

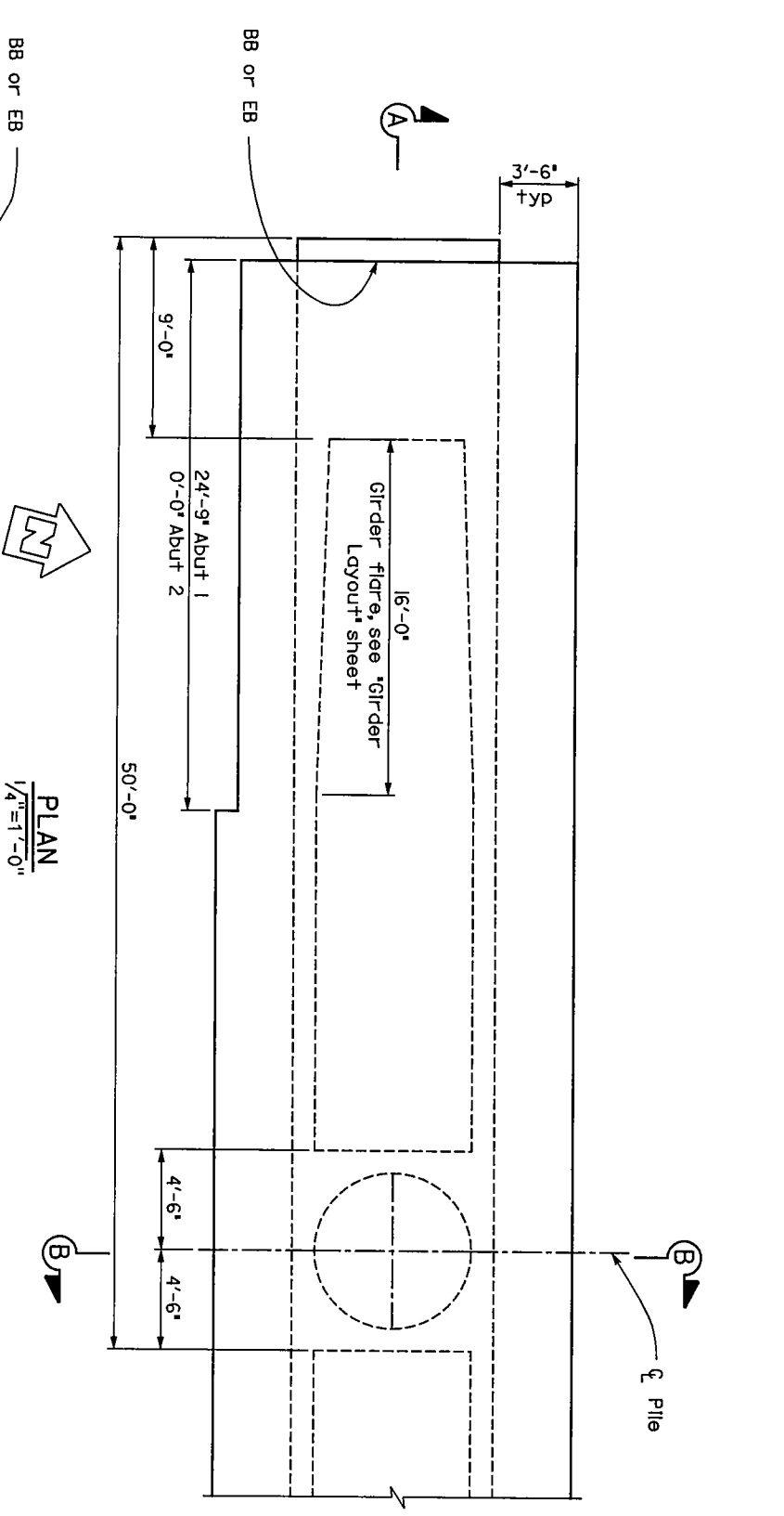
FOR CITY ENGINEER	BY	APPROVED	DATE	PLACED
DESCRIPTION	DATE	DATE	DATE	DATE
FILE NAME	DATE	DATE	DATE	DATE

CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION:

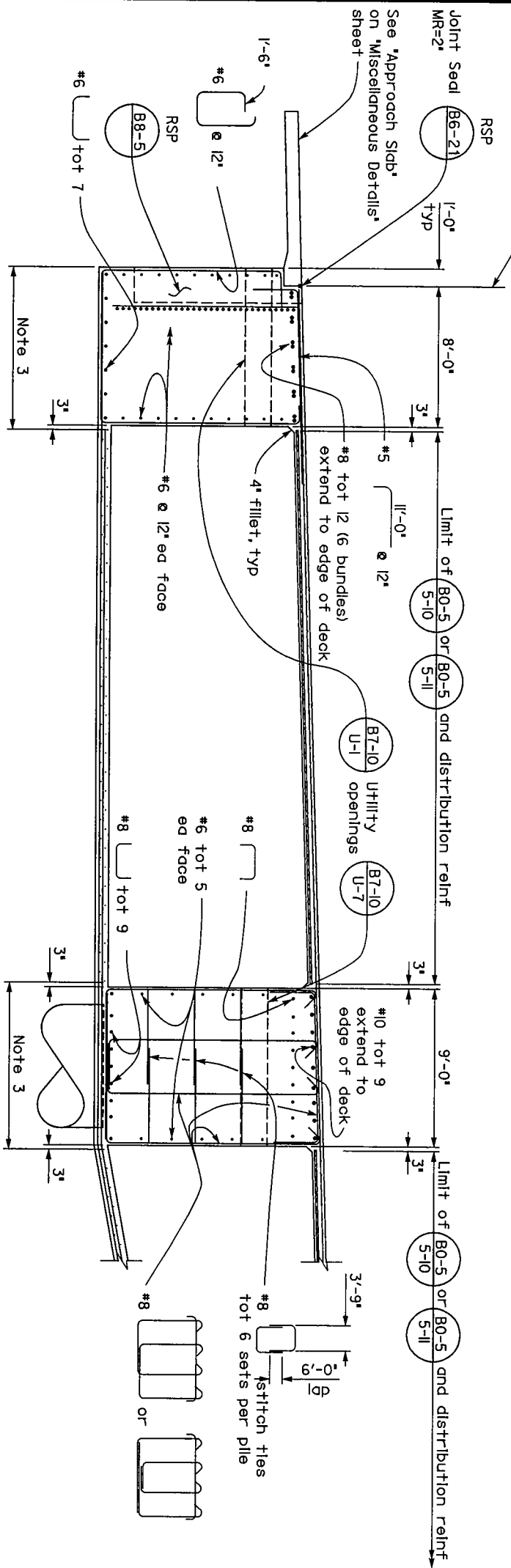
UNDERGROUND SERVICE ALERT (USA) 1-800-227-2900

CITY OF SAN DIEGO, CALIFORNIA  
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
 SHEET 25 OF 35 SHEETS

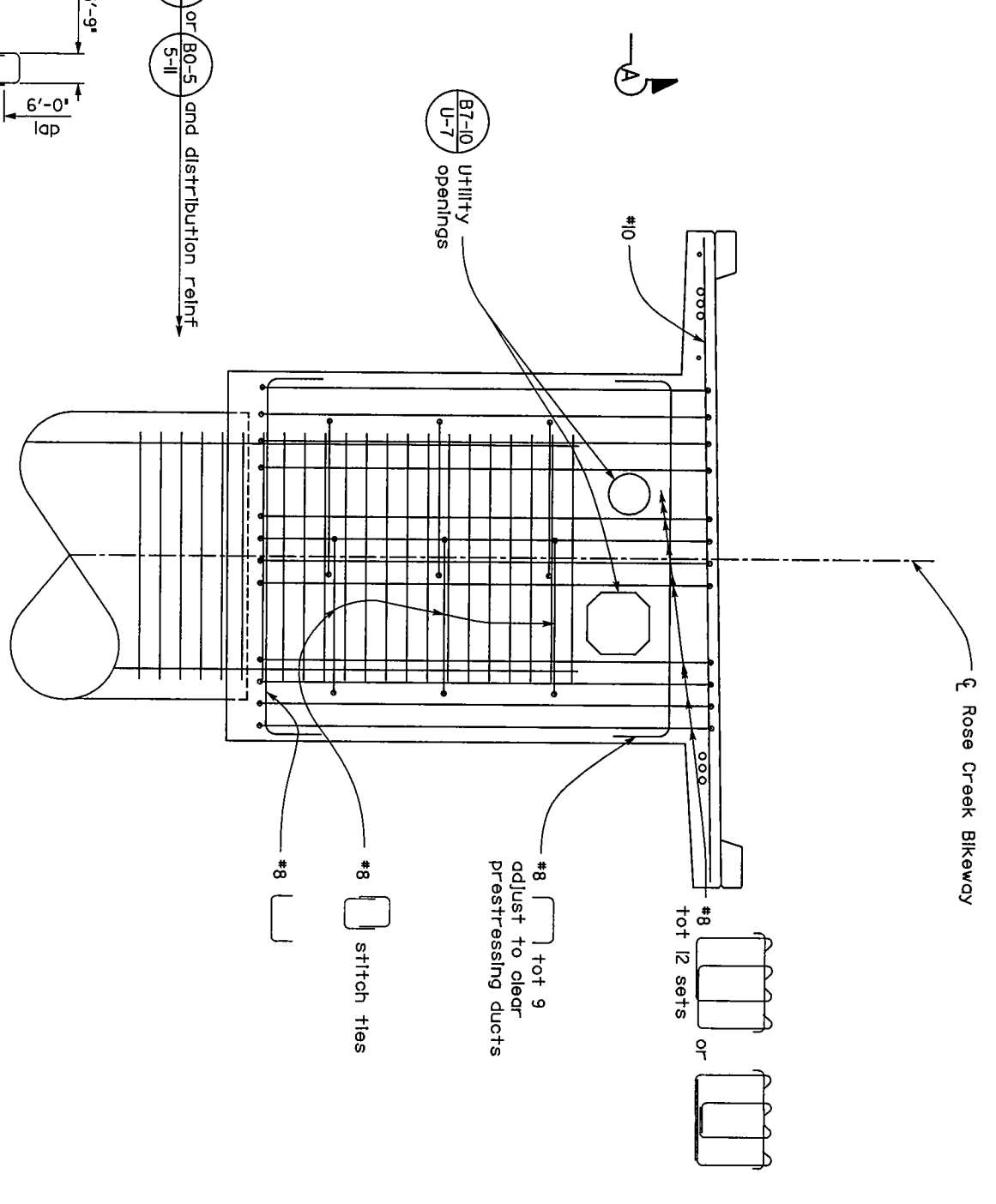
V.O. 581470  
 Jamal Botto  
 SECTION HEAD  
 Lubna Akhter  
 PROJECT ENGINEER  
 230-1698  
 PROJECT MANAGERS  
 Lambert Goodman  
 33769-25-D



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



**SECTION A-A**  
1/4"=1'-0"



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

- Notes:
1. Abutment 1 shown, Abutment 2 similar.
  2. Extend longitudinal deck and longitudinal bottom slab reinf into diaphragm and pile cap.
  3. For dimensions and reinf not shown, see 'Typical Section' and 'Abutment Details' sheets.
  4. All reinforcement, except inner cages of piles, to be epoxy coated.

**TYLINTNTERNATIONAL**  
 ENGINEER OF WORK  
 5050 CAMINO DE LA SIESTA, SUITE 204, SAN DIEGO, CA 92108  
 (619) 692-1920  
 www.tylin.com

REGISTERED PROFESSIONAL ENGINEER  
 Joseph W. Topf  
 No. CS2862  
 Exp. 12-31-06  
 STATE OF CALIFORNIA

CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION:  
 UNDERGROUND SERVICE ALERT (USA) 1-800-221-2500

Spec No. 3248  
 City Contract, CIP No. 58-147.0

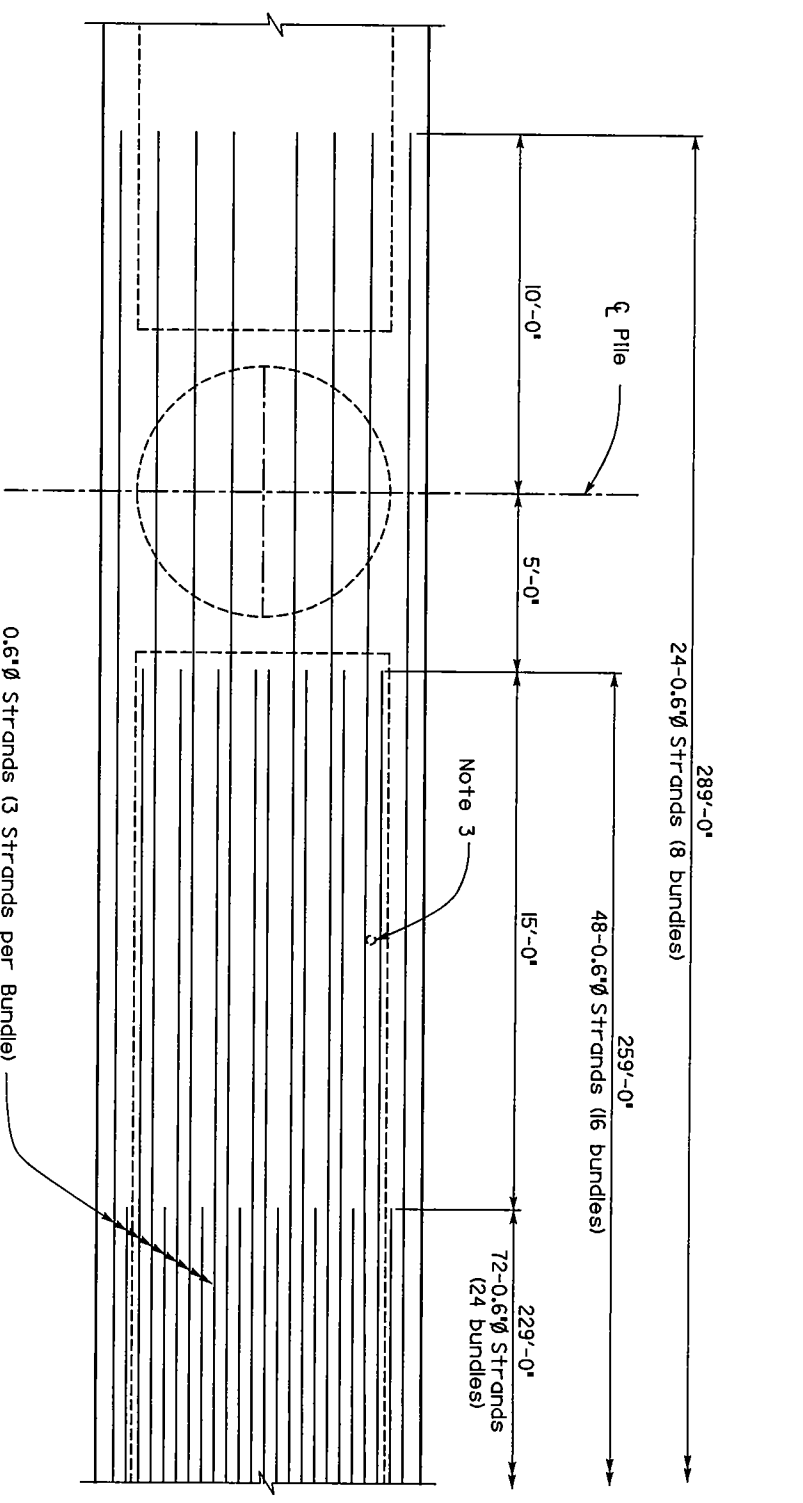
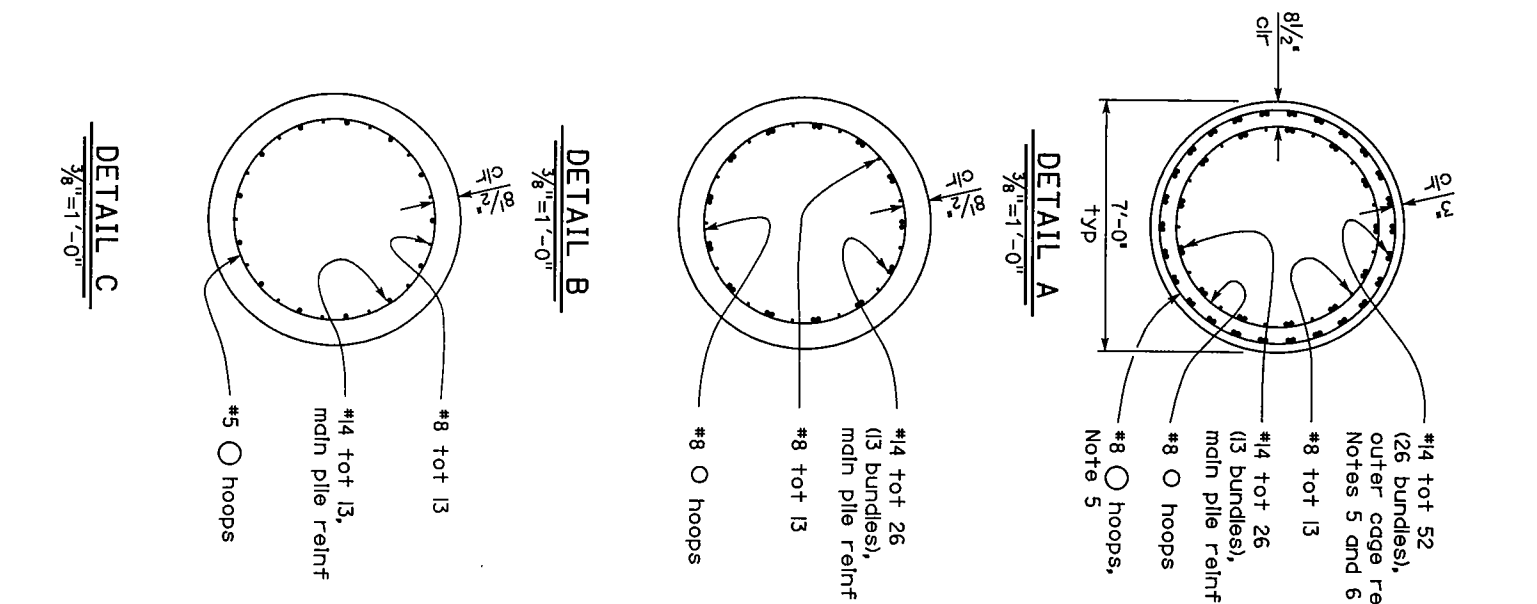
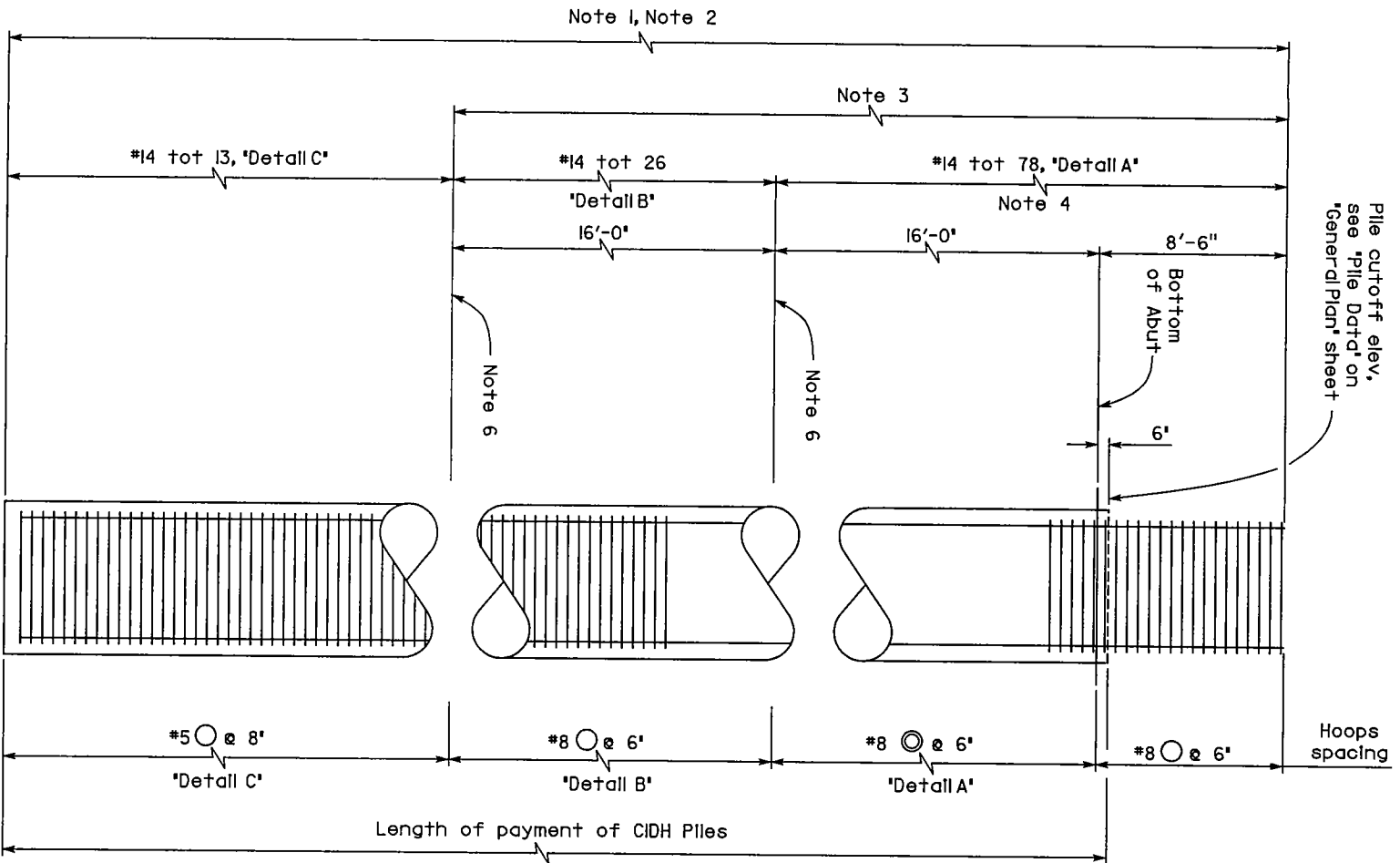
PLANS FOR THE CONSTRUCTION OF:  
**ROSE CREEK BIKEWAY BRIDGE ABUTMENT LAYOUT**

FOR CITY ENGINEER	DATE	DATE	DATE	DATE
DESCRIPTION	BY	APPROVED	DATE	FILED
FILE NAME	DATE	TITLE		
PROJECT ENGINEER	DATE	PROJECT MANAGER	DATE	
AS-BUILT	DATE STARTED	DATE COMPLETED		

CITY OF SAN DIEGO, CALIFORNIA  
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
 SHEET 26 OF 35 SHEETS

NO. 581470

Project Engineer: **230-1698**  
 Project Manager: **33769-26-D**



**SOFFIT SLAB REINFORCEMENT PLAN**  
 $\frac{3}{8}'' = 1'-0''$

Notes:  
 1. Abutment 1 shown, Abutment 2 similar.  
 2. See 'Typical Section' sheet for details not shown.  
 3. Adjust strands to clear vents, for location of vents see 'Girder Layout' sheet

- Notes:**
- All hoops are ultimate butt spliced.
  - Main pile reinf shall be adjusted to accommodate inspection pipes, as approved by the Engineer.
  - No splices allowed in main pile reinf in this region.
  - Construction joint is permissible at bottom of 'Detail A' region.
  - Outer rebar cage shall be epoxy coated.
  - Stagger termination of reinforcement over 7 feet.

**84" DIA CIDH CONCRETE PILE**  
 $\frac{1}{4}'' = 1'-0''$

**TYLIN INTERNATIONAL**  
 ENGINEER OF WORK  
 5030 CAMINO DE LA SIESTA, SUITE 204, SAN DIEGO, CA 92108  
 (619) 682-1920  
 www.tylin.com

REGISTERED PROFESSIONAL ENGINEER  
 Joseph W. Tognoli  
 No. CS2862  
 Exp. 12-31-06  
 STATE OF CALIFORNIA

CITY OF SAN DIEGO, CALIFORNIA  
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
 SHEET 27 OF 35 SHEETS

PLANS FOR THE CONSTRUCTION OF:  
**ROSE CREEK BIKEWAY BRIDGE**  
**ABUTMENT DETAILS**

W.D. 581470

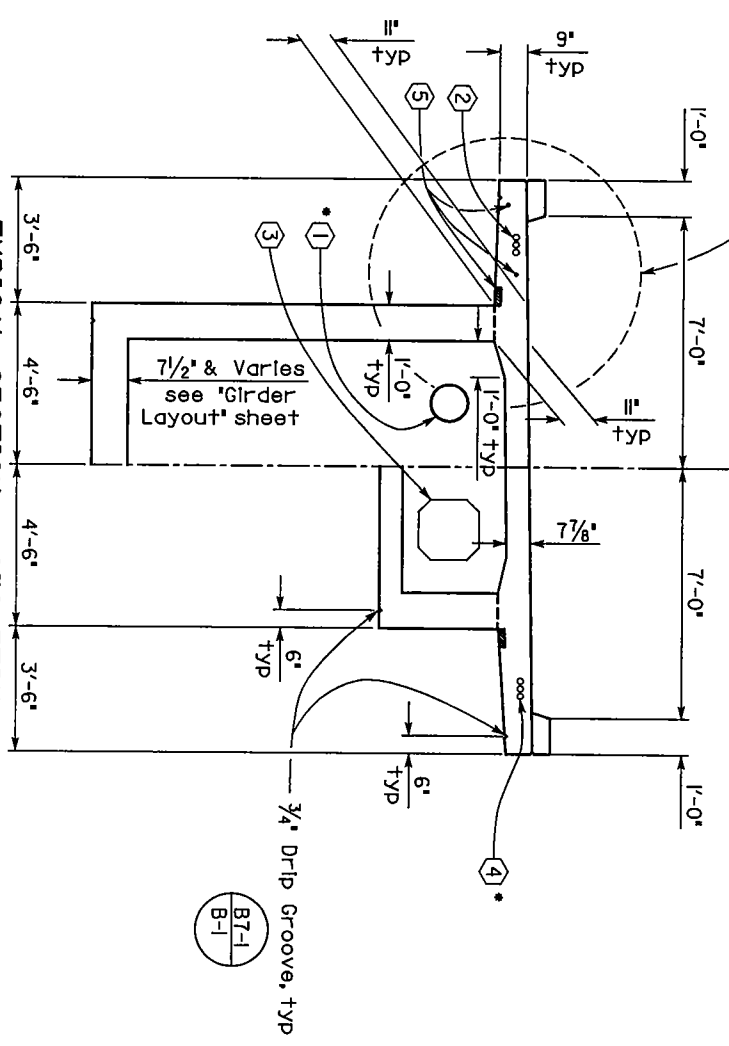
FOR CITY ENGINEER	DATE	APPROVED	DATE	REVISION
DESCRIPTION	BY	DATE	DATE	SECTION HEAD
FILE NAME	DATE	TITLE	DATE	PROJECT MANAGER
CONTRACTOR	DATE STARTED	DATE COMPLETED	DATE	PROJECT ENGINEER
ASSEMBLER	DATE	DATE	DATE	PROJECT MANAGER
CONTRACTOR	DATE	DATE	DATE	PROJECT ENGINEER
REVISION	DATE	DATE	DATE	PROJECT MANAGER

Spec No. 3248  
 City Contract, CIP No. 58-147.0

CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION:	UNDERGROUND SERVICE ALERT (USA) 1-800-227-2500
-------------------------------------------------------------------------------------------------------------------	------------------------------------------------

See 'Curb And Overhang Detail'

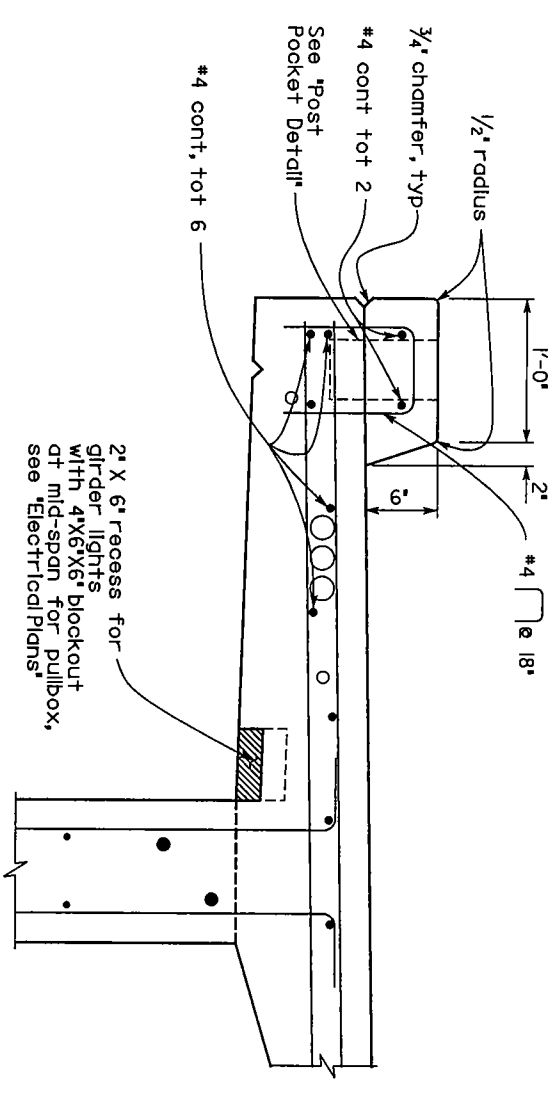
Symmetrical about  $\zeta$  Rose Creek Bikeway



**TYPICAL SECTION - GEOMETRY**  
 $\frac{3}{8}''=1'-0''$

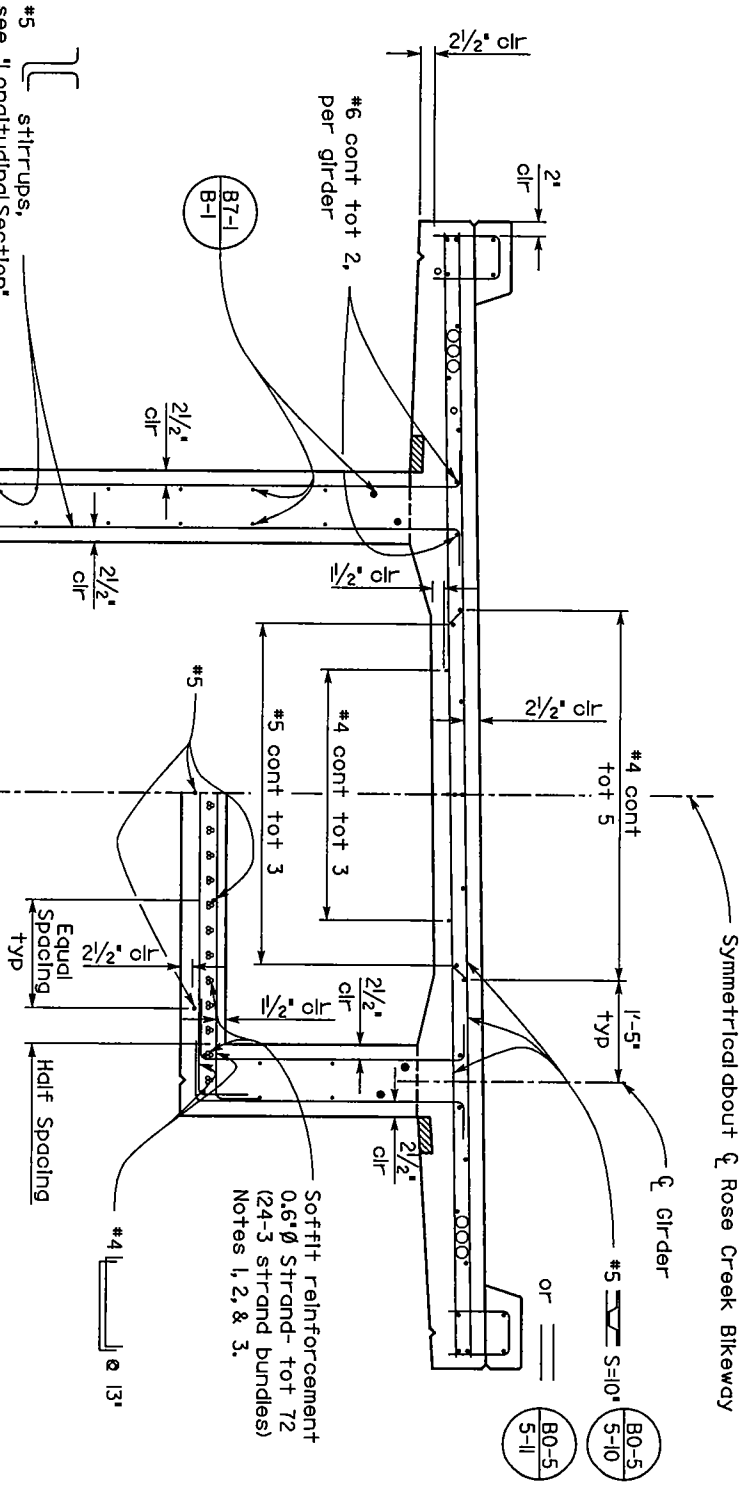
- Utilities:
- ① I-12 dia opening for future (City of San Diego)\*
  - ② 3-2" dia openings for cable tv (Time Warner)
  - ③ I-20"x20" for electrical (SDG&E)
  - ④ 3-2" dia openings for future (City of San Diego)\*
  - ⑤ Conduits for bridge and bikeway lighting (See Electrical Plans)

\*For casing details of abutments, see 'Miscellaneous Details' sheet



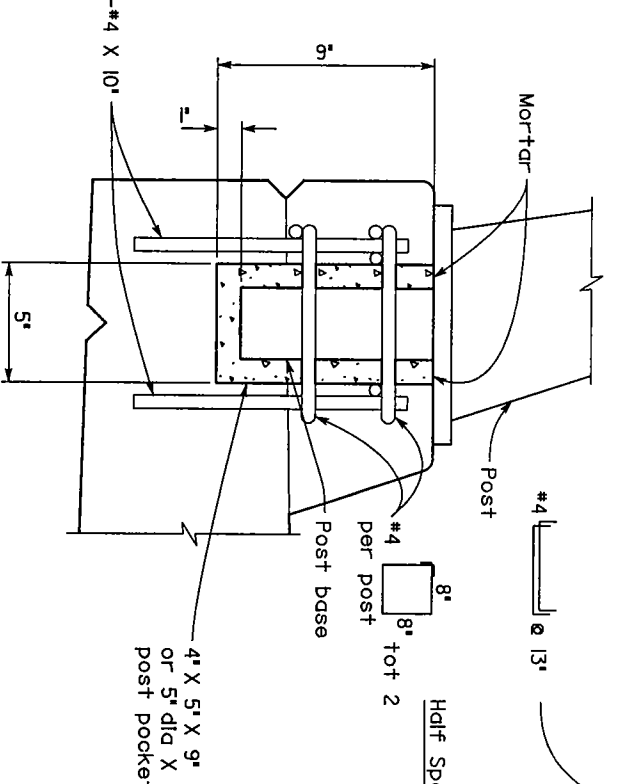
**CURB AND OVERHANG DETAIL**  
 $\frac{1}{2}''=1'-0''$

2" X 6" recess for girder lights with 4"x6"x6" blockout at mid-span for pullbox, see 'Electrical Plans'



- Notes:
- 1. High strength strand reinforcing steel, unstressed, epoxy coated.
  - 2. Strand shall run continuous through soffit slab without splices.
  - 3. See 'Soffit Slab Reinforcement Plan' on 'Abutment Details' sheet for termination schedule.
  - 4. All reinforcement to be epoxy coated.

**TYPICAL SECTION - REINFORCEMENT**  
 $\frac{3}{4}''=1'-0''$



**POST POCKET DETAIL**  
 $3''=1'-0''$

**TYLLININTERNATIONAL**  
 ENGINEER OF WORK  
 5020 CAMINO DE LA SIESTA, SUITE 204, SAN DIEGO, CA 92108  
 (619) 592-9320  
 www.tylin.com

PROJECT ENGINEER: Joseph Tognoli  
 DATE: 12-31-06  
 SHEET: 28 OF 35

REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 No. CS2862  
 Exp. 12-31-06  
 JOSEPH M. TOGNOLI

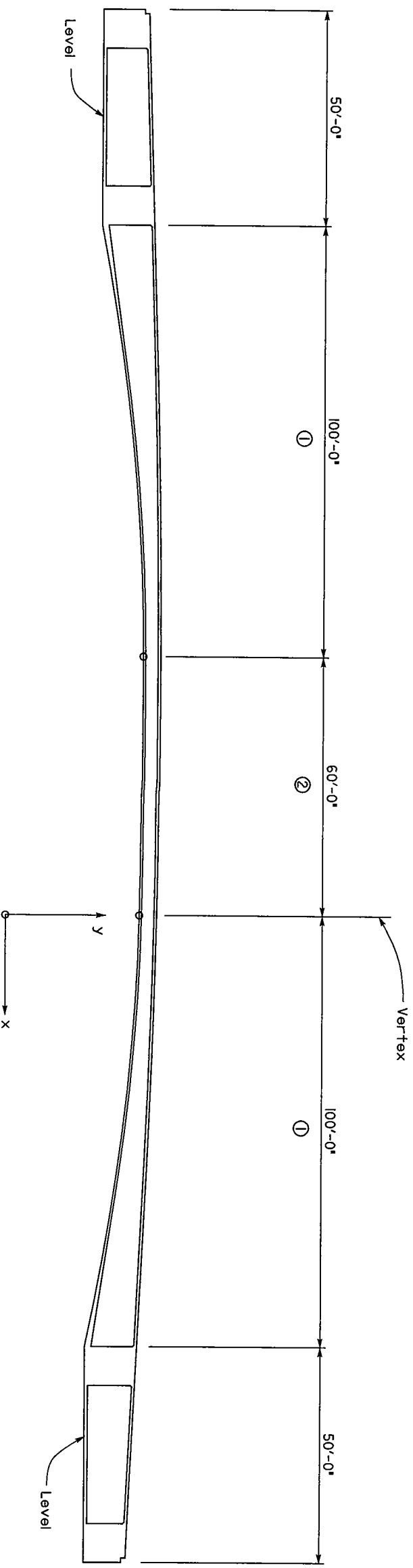
CITY OF SAN DIEGO, CALIFORNIA  
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
 SHEET 28 OF 35 SHEETS

PLANS FOR THE CONSTRUCTION OF:  
**ROSE CREEK BIKEWAY BRIDGE**  
 TYPICAL SECTION

FOR CITY ENGINEER	DATE	SECTION HEAD
DESCRIPTION	BY	APPROVED
DATE	DATE	DATE
FILE NAME	SCALE	PROJECT NUMBER
PROJECT ENGINEER	DATE STARTED	DATE COMPLETED
INSPECTOR		

CONTRACTOR: LAMBERT CORPORATES  
 DATE: 12-31-06  
 SHEET: 28 OF 35

Spec No. 3248  
 City Contract, CIP No. 58-147.0



**SUPERSTRUCTURE GEOMETRY**  
No Scale

Legend:

① - Parabolic haunch,  $d_s = 4'-0"$  to  $12'-0"$

② - Constant structure depth,  $d_s = 4'-0"$

Parabolic Equation:  $y = \frac{y_1}{4.00} - \frac{x^2}{p}$   
(from vertex to abutment face)

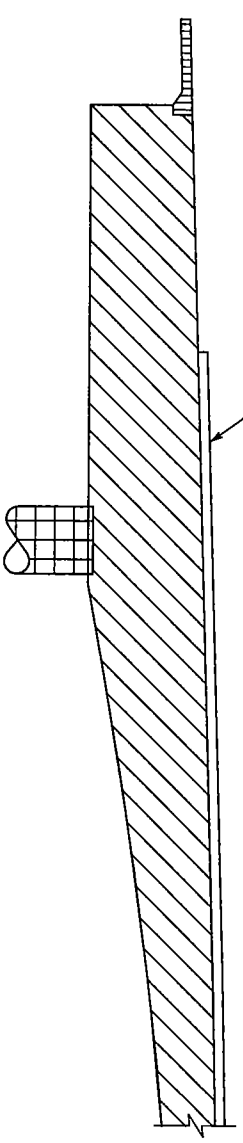
$y$  = soffit elevation

$y_1$  = deck elevation

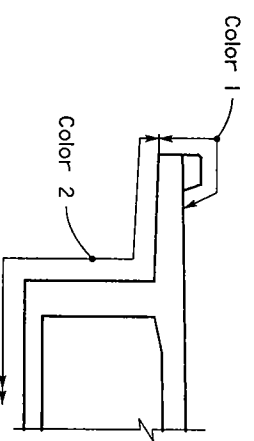
$x$  = horizontal distance from vertex toward abutment face

$p = 1250$  (parabolic constant)





Curbs



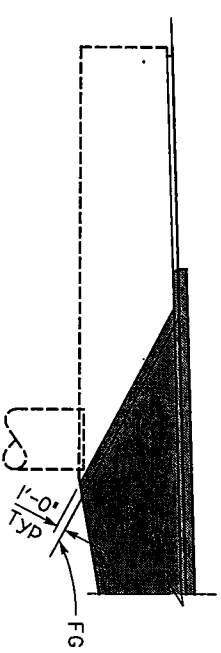
**PART SECTION**



**CONCRETE STRENGTH AND TYPE LIMITS**  
No Scale

-  - Structural Concrete, Bridge ( $f'c = 6000$  psi @ 28 days)
-  - Structural Concrete, Bridge ( $f'c = 3600$  psi @ 28 days)
-  - CIDH Pile Concrete ( $f'c = 3600$  psi @ 28 days)
-  - Structural Concrete, Approach Slab ( $f'c = 3600$ psi @ 28 days)

**LIMITS OF CONCRETE STAIN**  
No Scale



**ELEVATION**

**TYLLIN INTERNATIONAL**  
5030 CAMINO DE LA SIERRA, SUITE 204, SAN DIEGO, CA 92108  
(619) 592-9220  
www.tyllin.com

**ENGINEER OF WORK**  
*Joseph W. Topf*  
PROJECT ENGINEER  
No. CS2862  
Exp. 12-31-06

DATE: 12-31-06  
DATE: 6-20-06



CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION:

UNDERGROUND SERVICE ALERT (USCA) 1-800-227-2600

Spec No. 3248  
City Contract, CIP No. 58-147.0

PLANS FOR THE CONSTRUCTION OF:  
**ROSE CREEK BIKEWAY BRIDGE**  
**SUPERSTRUCTURE GEOMETRY**

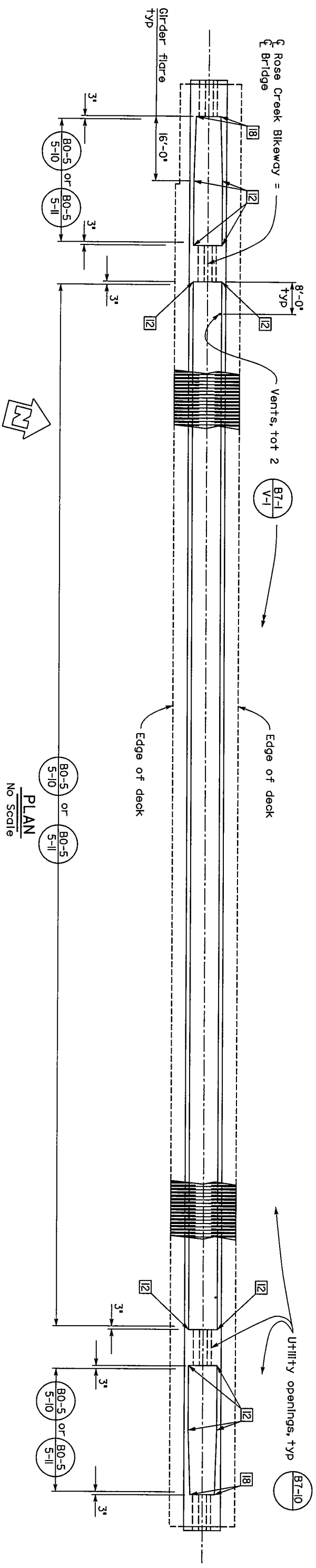
CITY OF SAN DIEGO, CALIFORNIA  
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
SHEET 29 OF 35 SHEETS

NO. 581470

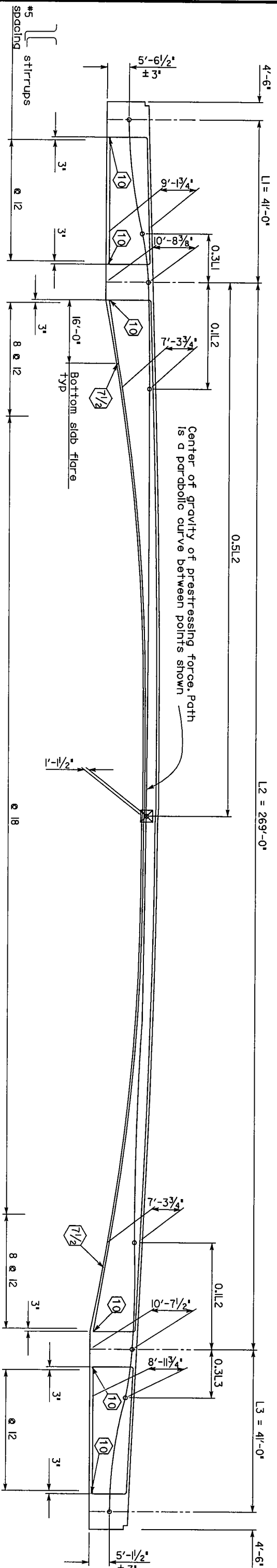
FOR CITY ENGINEER	BY	DATE	FOR STATE ENGINEER	DATE
DESCRIPTION	BY	DATE	SECTION HEAD	
FILE NAME	TYLLIN		PROJECT MANAGER	
			PROJECT ENGINEER	
			LABORER COORDINATOR	

DATE STARTED: \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

33769-29-D



**PLAN**  
No Scale



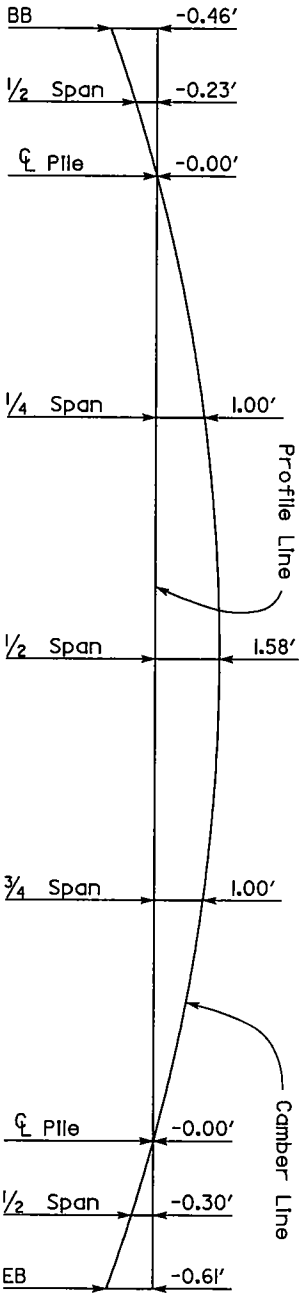
**LONGITUDINAL SECTION**  
No Scale

- Indicates bottom slab thickness in inches
- Indicates theoretical point of no movement for two end stressing
- Indicates girder stem width in inches

**PRESTRESSING NOTES**

Plack = 6300 Kips  
 270 ksi Low Relaxation Strand;  
 Total Number of Girders = 2  
 Anchor set = 3/8 in.  
 Distribution of prestress force (Plack) between girders shall not exceed the ratio of 3:2. Maximum final force variation between girders shall not exceed 725 kips.  
 Concrete:  $f'c = 6000$  psi @ 28 days  
 $f'ci = 4000$  psi @ time of stressing  
 Contractor shall submit elongation calculations based on initial stress of  $\sigma = 0.800$  times jacking stress.

$\mu = 0.15$   
 $K = 0.0002$  kips per foot



Notes: Does not include allowance for falsework settlement

**CAMBER DIAGRAM**  
No Scale

**TYLLININTERNATIONAL**  
 ENGINEER OF WORK  
 5030 CAMINO DE LA SIESTA, SUITE 204, SAN DIEGO, CA 92108  
 (619) 692-9920  
 Project Engineer: Joseph Tognoli  
 Date: 12-31-06

REGISTERED PROFESSIONAL ENGINEER  
 Joseph W. Tognoli  
 No. CS2862  
 Exp. 12-31-06  
 CIVIL  
 STATE OF CALIFORNIA

CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION:

UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600

FOR CITY ENGINEER	BY	DATE	APPROVED	DATE	FILED
DESCRIPTION	BY	DATE	APPROVED	DATE	FILED
FILE NAME	TYLIM				

Spec No. 3248  
 City Contract, CIP No. 58-147.0

**PLANS FOR THE CONSTRUCTION OF:  
 ROSE CREEK BIKEWAY BRIDGE  
 GIRDER LAYOUT**

CITY OF SAN DIEGO, CALIFORNIA  
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
 SHEET 30 OF 35 SHEETS

No. 581470

Jamal Butta  
 SECTION HEAD

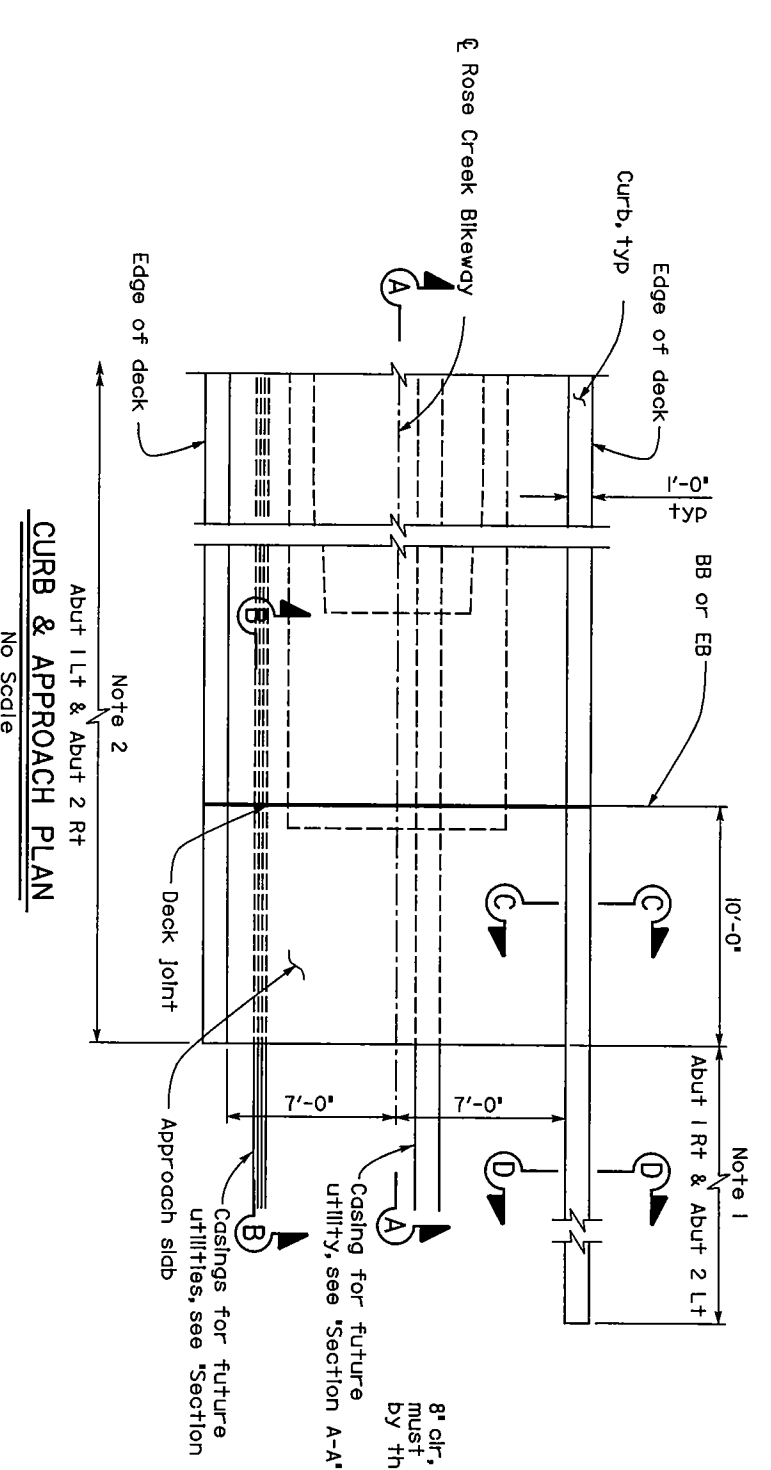
Lubna Arifkot  
 PROJECT MANAGER

Arif Kot  
 PROJECT ENGINEER

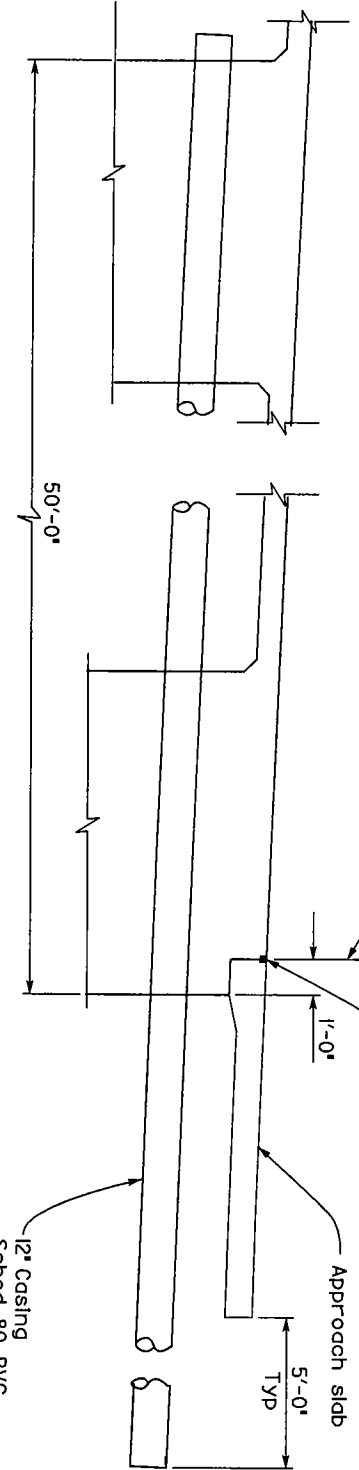
230-1698  
 LAMBERT COORDINATES

33769-30-D

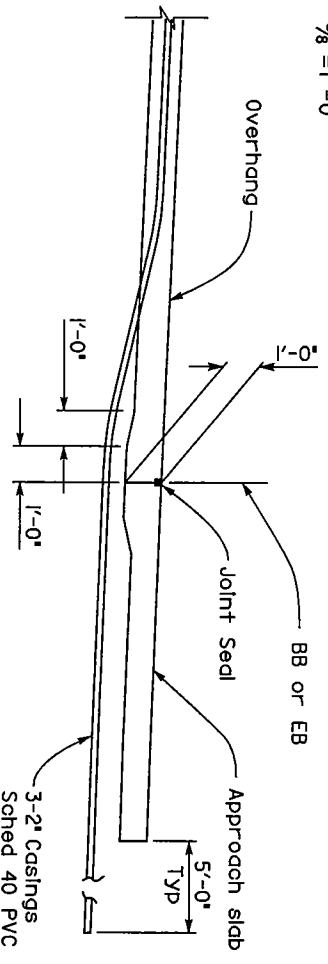




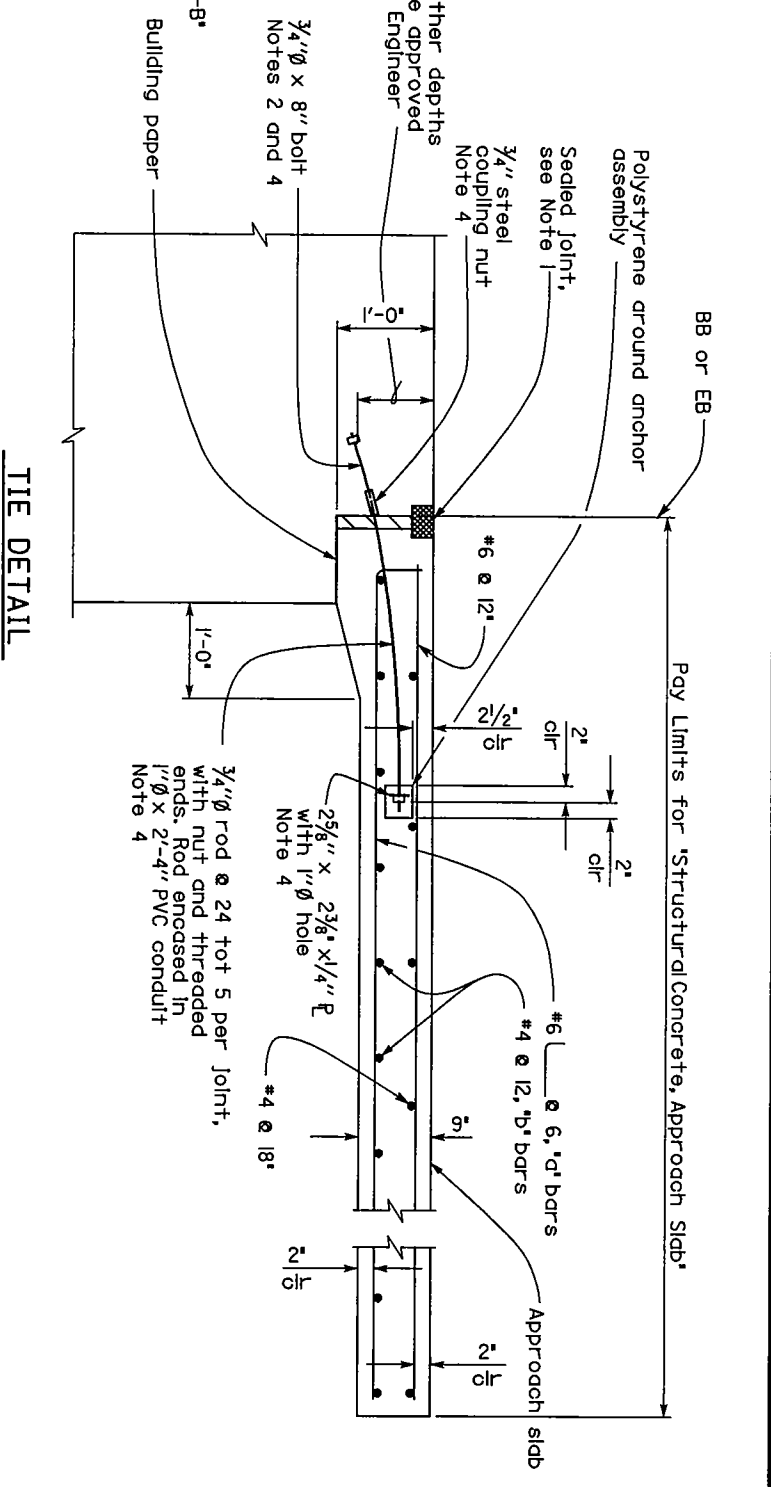
- Notes:
1. Extend curb to end of railing, see 'Metal/Railing Details' sheet.
  2. Extend curb to end of approach slab.



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

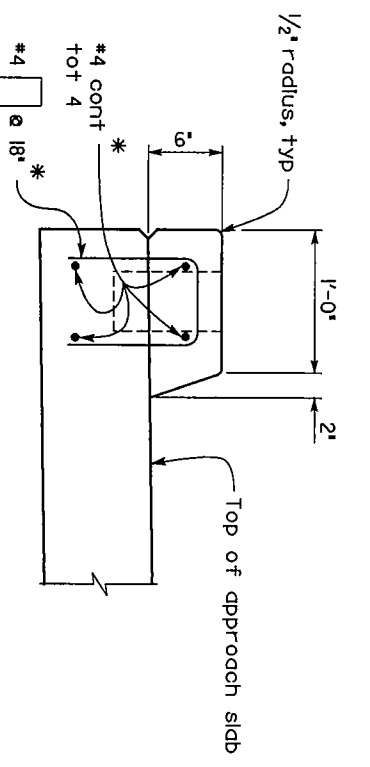


SECTION B-B  
3/8"=1'-0"



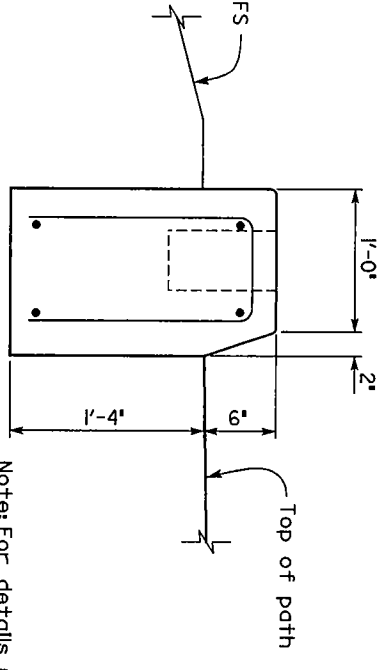
TIE DETAIL  
No Scale

- Notes:
1. For details not shown, see Structure Plans. Adjust reinforcement to clear a sawcut for seeded joint.
  2. Space to avoid prestress anchorages and main reinforcement.
  3. All reinforcement to be epoxy coated.
  4. All steel components of the assembly to be galvanized.



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

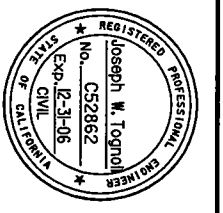
\* - Epoxy coated



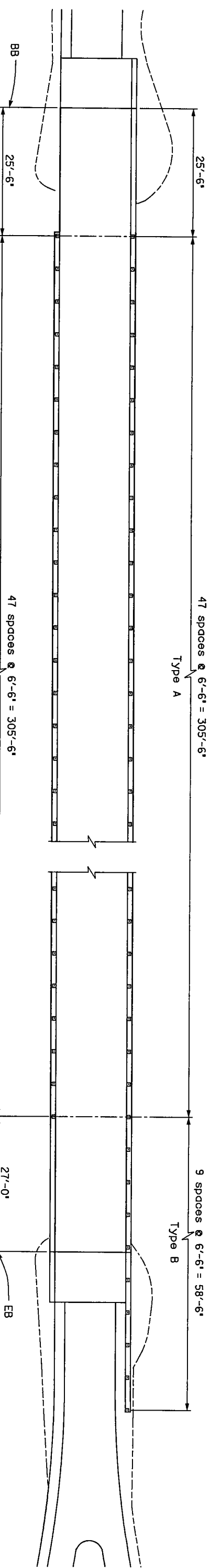
SECTION D-D  
1/2"=1'-0"

Note: For details not shown, see Section C-C.

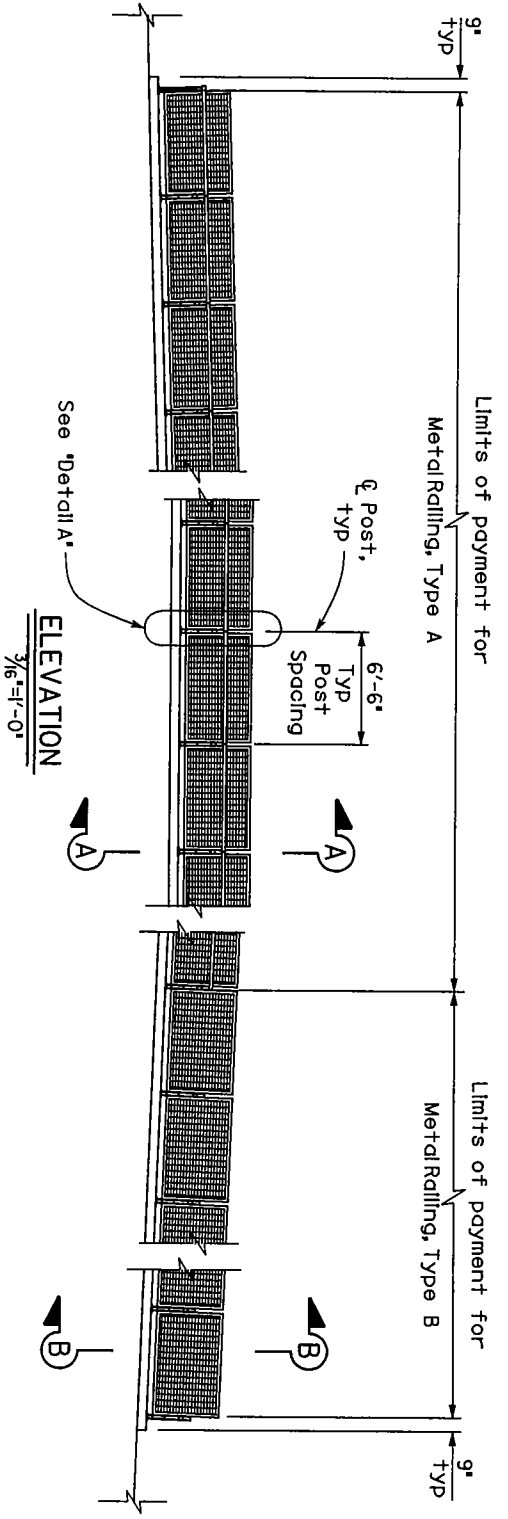
**TYLINTNINTERNATIONAL**  
 ENGINEER OF WORK  
 5030 CAMINO DE LA SIERRA, SUITE 204, SAN DIEGO, CA 92108  
 (619) 692-9320  
 PROJECT ENGINEER: Joseph W. Topf  
 DATE: 12-31-06



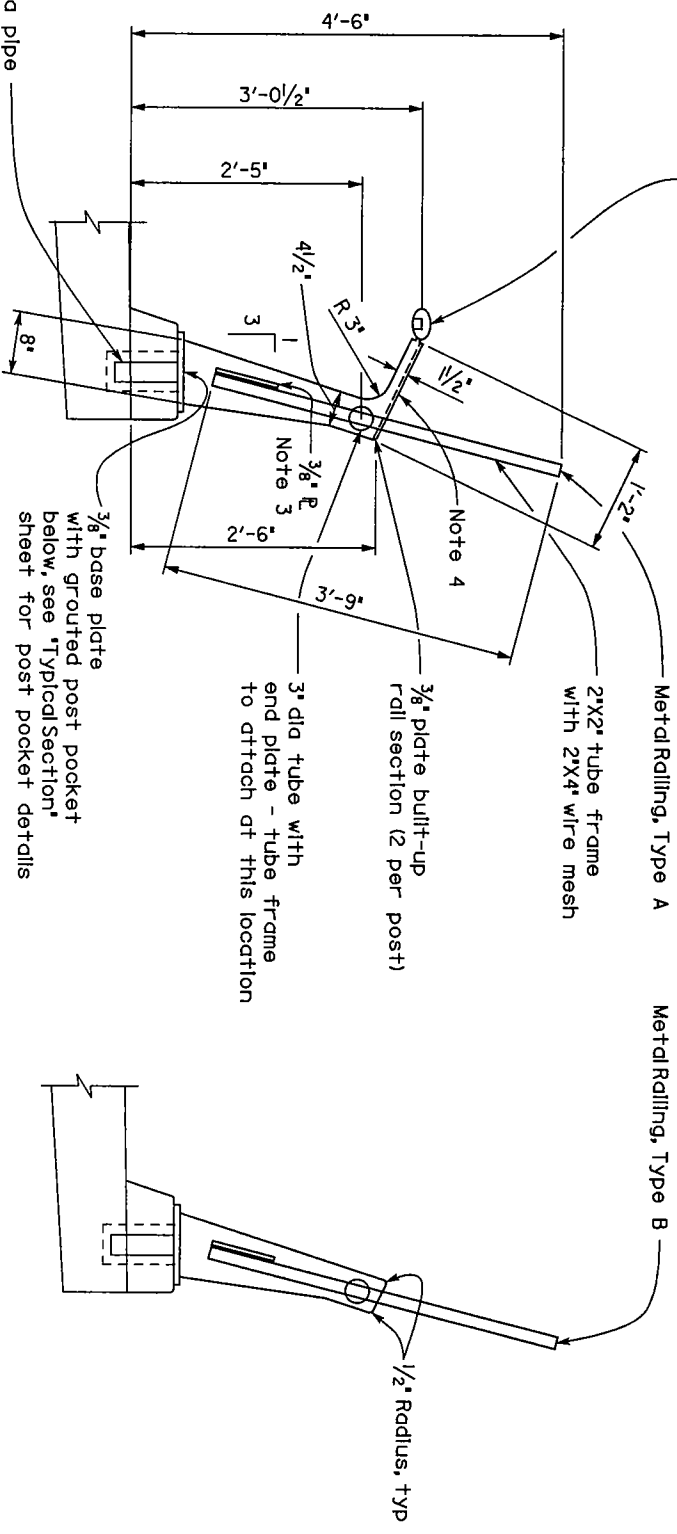
CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION:		CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 31 OF 35 SHEETS	
FOR CITY ENGINEER	BY	DATE	SECTION HEAD
FILED	DATE	DATE	PROJECT MANAGER
	TYLINTN		Andrew Demich
			PROJECT ENGINEER
			230-1698
			LAMBERT COOPERATES
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		
			33769-31-D



**PLAN**  
1"=10'



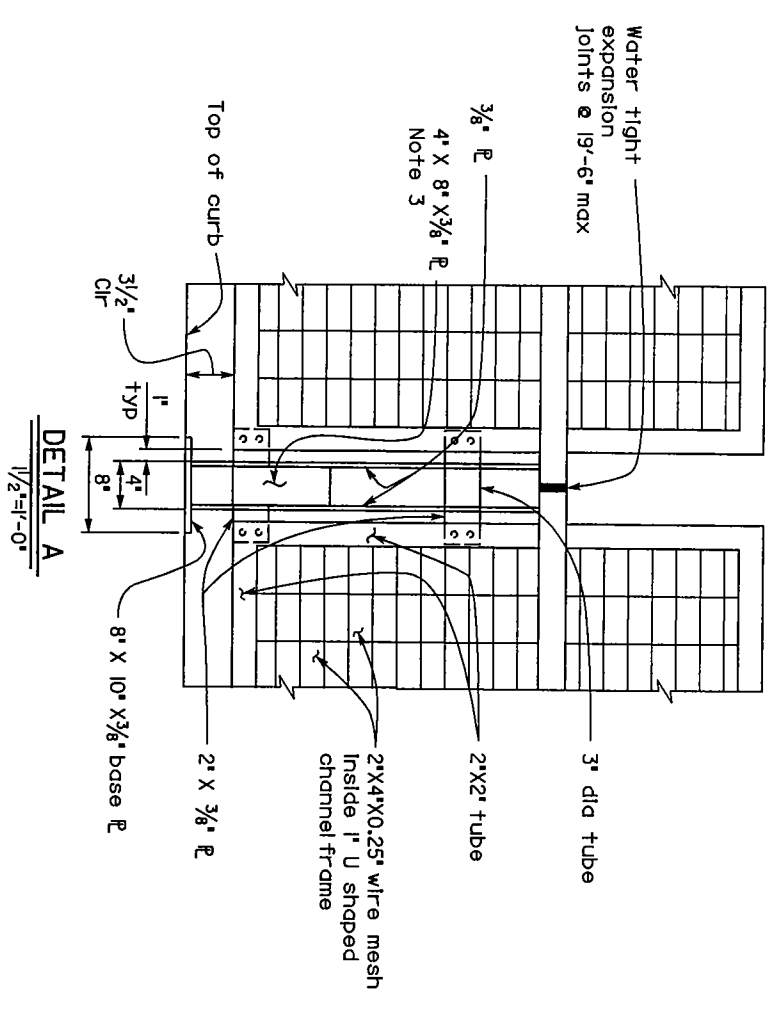
**ELEVATION**  
3/16"=1'-0"



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

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

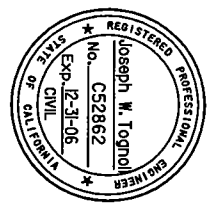
- Notes:
1. Material - 6063-T6 Aluminum
  2. Finish - Class I, clear anodized, 10 mil min.
  3. Substitute 4"x17"x3/8" R at conduit locations (every 52'-0") see "Electrical Plans".
  4. Include 3/4"x1/4"x3/8" R at conduit locations (every 52'-0") see "Electrical Plans".



**DETAIL A**  
1/2"=1'-0"

Note: For details not shown, see 'Section A-A'  
Spec No. 3248  
City Contract, CIP No. 58-147.0

PLANS FOR THE CONSTRUCTION OF:  
**ROSE CREEK BIKEWAY BRIDGE**  
**METAL RAILING DETAILS**



**TYLIN INTERNATIONAL**  
5830 CAMINO DE LA SIERRA, SUITE 204, SAN DIEGO, CA 92108  
(619) 692-1920  
www.tylin.com

**ENGINEER OF WORK**  
Joseph W. Topf, C52862, 12-31-06, 6-20-06  
DATE

CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION:

UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600

FOR GUT ENGINEER	DATE	FOR ARCHITECT	DATE
DESIGN		DATE	
REVISION		DATE	

APPROVED: \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

CITY OF SAN DIEGO, CALIFORNIA  
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT  
SHEET 32 OF 35 SHEETS  
NO. 581470

Liquid Batho  
SECTION LEAD  
Ludno Arfick  
PROJECT MANAGER  
Arif-og Demirlon  
PROJECT ENGINEER  
230-1698  
LABENT DOCUMENTS  
33769-32-D

MAJOR DIVISIONS	SYMBOLS	TYPICAL DESCRIPTIONS
GRAVEL AND GRAVELLY SANDS	GW	WELL-SORTED GRAVEL AND SAND WITH LESS THAN 5% FINE SANDS. LITTLE OR NO FINES.
CLEAN GRAVELS	GP	GRAVELS WITH LESS THAN 5% SAND AND LESS THAN 5% FINES.
GRAVELS WITH FINES	GM	GRAVELS WITH LESS THAN 5% SAND AND MORE THAN 5% FINES.
CLEAN SANDS	SW	WELL-SORTED SANDS, GENEALLY LITTLE OR NO FINES.
SANDS WITH FINES	SM	POORLY-SORTED SANDS, GENEALLY LITTLE OR NO FINES.
SANDS WITH FINE SANDS	SC	CLAYEY SANDS, SAND - CLAY
CLAYS	CL	ORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY.
CLAYS	CH	ORGANIC CLAYS OF HIGH PLASTICITY.
CLAYS	OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY.
CLAYS	PT	PEATS, POORLY SORTED SANDS WITH HIGH ORGANIC CONTENT.

LOG SYMBOLS	DESCRIPTIONS
☒	WATER LEVEL (feet after correction)
☒	WATER LEVEL (feet after correction) (over water level)
☒	ROCKED OR CURVED SAMPLES (1/2" and 3/4" diameters)
☒	CHAROUBA SAMPLES (3/4" diameters)
☒	STANDARD PENETROMETER (2" dia. outside diameter)
☒	NO SAMPLE RECOVERY
☒	SILENT TIME

LOG OF BORING B-1	LOG OF BORING B-1
<b>KLINFELDER</b>	<b>KLINFELDER</b>
ROSE CREEK BIKE PATH AND BRIDGE	ROSE CREEK BIKE PATH AND BRIDGE
SAN DIEGO, CALIFORNIA	SAN DIEGO, CALIFORNIA

LOG OF BORING B-1	LOG OF BORING B-1
<b>KLINFELDER</b>	<b>KLINFELDER</b>
ROSE CREEK BIKE PATH AND BRIDGE	ROSE CREEK BIKE PATH AND BRIDGE
SAN DIEGO, CALIFORNIA	SAN DIEGO, CALIFORNIA

LOG OF BORING B-1	LOG OF BORING B-1
<b>KLINFELDER</b>	<b>KLINFELDER</b>
ROSE CREEK BIKE PATH AND BRIDGE	ROSE CREEK BIKE PATH AND BRIDGE
SAN DIEGO, CALIFORNIA	SAN DIEGO, CALIFORNIA

LOG OF BORING B-1	LOG OF BORING B-1
<b>KLINFELDER</b>	<b>KLINFELDER</b>
ROSE CREEK BIKE PATH AND BRIDGE	ROSE CREEK BIKE PATH AND BRIDGE
SAN DIEGO, CALIFORNIA	SAN DIEGO, CALIFORNIA

LOG OF BORING B-1	LOG OF BORING B-1
<b>KLINFELDER</b>	<b>KLINFELDER</b>
ROSE CREEK BIKE PATH AND BRIDGE	ROSE CREEK BIKE PATH AND BRIDGE
SAN DIEGO, CALIFORNIA	SAN DIEGO, CALIFORNIA

**GEOTECHNICAL INFORMATION IN BORING LOGS IS FOR DESIGN PURPOSES ONLY**

**PLANS FOR THE CONSTRUCTION OF:**  
**ROSE CREEK BIKEWAY BRIDGE**

**LOG OF TEST BORINGS No. 1**

**Spec No. 3248**  
**City Contract, CIP No. 58-147.0**

<p style="text-align: center;"><b>REG. ILLUSTR. PROFESSIONAL ENGINEER</b></p> <p style="text-align: center;">No. 54045 Exp-12-31-07 Karin Oran SITE OF CIVIL ENGINEER</p>	<p style="text-align: center;">CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 33 OF 35 SHEETS</p>
<p style="text-align: center;">CONTRACTOR MUST NOTIFY THE BELOW LISTED AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION:</p> <p style="text-align: center;">UNDERGROUND SERVICE ALERT (USA) 1-800-277-2600</p>	<p style="text-align: center;">No. 561470</p> <p style="text-align: center;">Jmol Bello SECTION LEAD</p> <p style="text-align: center;">LARRY ATKIN PROJECT MANAGER</p> <p style="text-align: center;">ANDREA DAMICH PROJECT ENGINEER</p> <p style="text-align: center;">230-1698 LARGEST CONTRACTORS</p>

