

# County of Orange **CPublicWorks**

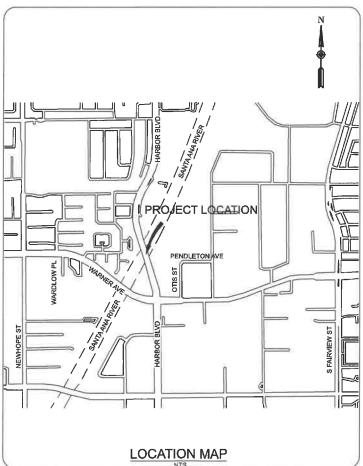
SANTA ANA, CALIFORNIA
SHANE L. SILSBY, DIRECTOR

# PLANS FOR HARBOR BLVD BRIDGE OVER SANTA ANA RIVER BRIDGE PREVENTIVE MAINTENANCE

BRIDGE NO. 55C0631 WORK ORDER NO ER20570

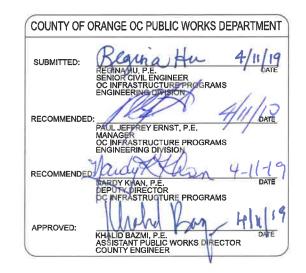
> APRIL, 2019 100% Submittal

FUNDED BY: SENATE BILL 1 (SB-1)
MAINTAINED BY: COUNTY OF ORANGE



#### GENERAL NOTES

THE CONTRACTOR SHALL CANTACT DIGALERT AT 1 (800) 422-4133 AT LEAST 2 WORKING DAYS PRIOR TO PERFORMING ANY EXCAVATION



# RECORD DRAWING CONTRACTOR: RESIDENT ENGINEER: INSPECTOR: CONSTRUCTION START DATE: CONSTRUCTION COMPLETION DATE: PREPARED BY

REPARED UNDER RES	PONSIBLE CHARGE OF:	ANTE STAN
110 BLUE RAVINE FOLSOM, CA 9563 TEL, 916 858-0642 FAX 916 858-0643	1 + + 0	SP. 3/31/O a
FORTUNATO ENRIC DOKKEN ENGINEE	DUEZ, P.E., RING	04/08/2019 DATE

#### INDEX OF SHEETS

SHEET DESCRIPTION

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2 GENERAL NOTES

4 GIRDER REPAIR DETAIL NO.1

5 GIRDER REPAIR DETAIL NO.2

#### **CALTRANS STANDARD PLANS DATED 2015**

Sheet No.	Title
A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)
A10A	LEGEND - LINES AND SYMBOLS (SHEET 1 OF 5)
A10B	LEGEND - LINES AND SYMBOLS (SHEET 2 OF 5)
A10C	LEGEND - LINES AND SYMBOLS (SHEET 3 OF 5)
A10D	LEGEND - LINES AND SYMBOLS (SHEET 4 OF 5)
A10E	LEGEND - LINES AND SYMBOLS (SHEET 5 OF 5)

STANDARD PLAN SHEET No.

NO. DESCRIPTION SHT. APPROVED DATE
REVISIONS

W.O. NO. <u>ER20570</u> DWG. NO. <u>G-001</u>

SHEET 1 OF 5

#### GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS, THE CURRENT GREENBOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THE COUNTY OF ORANGE STANDARD PLANS, THE COUNTY OF ORANGE SPECIAL PROVISIONS FOR JOB ORDER CONTRACTS, AND THE STANDARD SPECIFICATIONS AND STANDARD PLANS DATED 2015 OF THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, ARE HEREBY MADE PART OF THESE SPECIFICATIONS
- 2. THE CONTRACTOR SHALL CANTACT DIGALERT AT 1 (800) 422-4133 AT LEAST 2 WORKING DAYS PRIOR TO PERFORMING ANY EXCAVATION
- 3. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS.
- THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN COMPLYING WITH JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-3 OR THE 4. CURRENT MUTCD REQUIREMENTS AND SIGNED BY A CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
- 5. PROVIDE TWO PORTABLE CHANGEABLE MESSAGE SIGNS FOR VEHICLE TRAFFIC CONTROL, ONE FOR NORTHBOUND TRAFFIC AND THE OTHER FOR SOUTHBOUND TRAFFIC
- 6. MAINTAIN ACCESS TO THE SANTA ANA RIVER BIKE TRAIL AND MAINTENANCE ROADS. IF WORK IS BEING PERFORMED ABOVE THE BIKE TRAIL OR THE SANTA ANA RIVER, PROTECT THE TRAIL, RIVER AND PUBLIC FROM FALLING DEBRIS. PROVIDE A 16-FOOT WIDE BY 10-FOOT HIGH OPENING FOR PEDESTRIAN AND BICYCLE TRAFFIC. PROVIDE FLAGGERS FOR TRAIL TRAFFIC IF EQUIPMENT WILL BE CROSSING OR ENCROACHING INTO THE TRAIL. LIMIT TRAIL CLOSURES TO A MAXIMUM OF 10 MINUTES.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS ON THE JOB SITE
- 8. DUST CONTROL SHALL COMPLY WITH JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-5.
- 9. PROTECT EXISTING FACILITIES PER JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-7
- PROTECT EXISTING UTILTIES PER JOB ORDER CONTRACT SPECIAL PROVISION SECTION F-9.
- 11. EXCEPT INDICATE OTHERWISE, PROTECT IN PLACE ALL EXISTING UTILITIES, FACILITIES. AND IMPROVEMENTS

#### EROSION AND SEDIMENT CONTROL

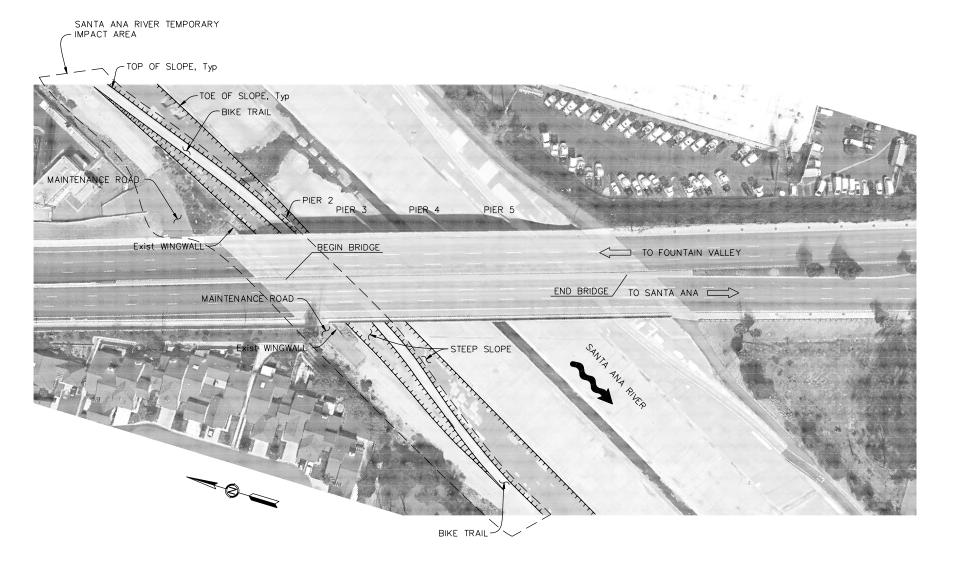
- 1. BRIDGE CONSTRUCTION ACTIVITIES SHALL OCCUR DURING LOW OR NO FLOW IN THE SANTA ANA RIVER..
- PERPARE A EROSION, SEDIMENT, AND CHEMICAL CONTROL PLAN (ESCCP) PER THE COUNTY OF ORANGE SPECIAL PROVISIONS FOR JOB ORDER CONTRACTS SECTION F-4.
- 3. A COPY OF THE ESCCP SHALL BE KEPT AT THE PROJECT SITE AT ALL TIMES.
- 4. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS SPECIFIED IN THE ESCCP AND/OR AS DIRECTED BY COUNTY INSPECTOR
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN ACCORDANCE WITH THE ESCCP.
- 6. THE CONTRACTOR SHALL ESTABLISH A SPECIFIC SITE WITHIN THE PROJECT SITE FOR MAINTENANCE AND STORAGE OF EQUIPMENT OR ANY OTHER ACTIVITIES THAT MAY ADVERSELY CONTRIBUTE TO THE WATER QUALITY OF THE RUNOFF IN ACCORDANCE WITH THE ESCCP

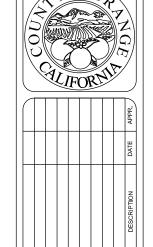
#### AIR POLLUTION CONTROL

- 1. LIMIT ON-SITE VEHICLE SPEEDS TO 15 M.P.H.
- 2. SUSPEND CLEARING, GRADING, EXCAVATION AND EARTH MOVING WHEN WIND EXCEEDS 20 M.P.H. CONTINUOUSLY FOR MORE THAN 1 HOUR IF DUST IMPACTS ARE OCCURRING OFF-SITE.
- 3. APPLY WATER OR DUST PALLIATIVES ON ALL EXPOSED SURFACES AS NECESSARY TO CONTROL DUST.
- 4. NO OPEN BURNING SHALL OCCUR
- 5. MINIMIZE EQUIPMENT IDLING TIME TO 10 MINUTES.
- 6. USE LOW EMISSION ON-SITE STATIONARY EQUIPMENT.

#### DURING CONSTRUCTION

- CONSTRUCTION ACTIVITY IS LIMITED TO BETWEEN 7 A.M. AND 7 P.M. MONDAY THROUGH FRIDAY, AND BETWEEN 8 A.M. AND 6 P.M. ON SATURDAY. NO WORK IS PERMITTED ON SUNDAY.
- 2. ALL NATIVE BIRDS ARE PROTECTED FROM DISTURBANCE WHILST NESTING. AS FAR AS POSSIBLE, CONSTRUCTION ACTIVITIES SHOULD TAKE PLACE OUTSIDE OF THE BIRD NESTING SEASON (FEBRUARY 1ST THROUGH SEPTEMBER 15TH). HOWEVER, IF OTHER RESTRICTIONS MAKE IT IMPOSSIBLE TO AVOID THE NESTING SEASON, THE REGULATORY PERMITTING TEAM AT OCPW MUST BE CONTACTED TO ARRANGE FOR PRE-CONSTRUCTION NESTING BIRD SURVEYS OF THE CONSTRUCTION AREAS. DISTURBANCE TO ANY ACTIVE NESTS MUST BE AVOIDED. CONSTRUCTION ACTIVITY WITHIN 300 FEET OF AN ACTIVE NEST [500 FEET FOR RAPTORS] SHOULD BE DELAYED UNTIL THE NEST IS NO LONGER ACTIVE, OR OTHERWISE APPROVED BY THE REGULATORY PERMITTING TEAM OR THEIR REPRESENTATIVE.
- 3. ANY CRACKS OR CREVICES, VOIDS OR HOLES IN BRIDGES, TREES, BUILDINGS OR OTHER STRUCTURES HAVE THE POTENTIAL TO SUPPORT ROOSTING BATS. THE REGULATORY PERMITTING TEAM MUST BE CONTACTED PRIOR TO THE START OF WORK TO CONDUCT A BAT SURVEY.
- 4. STREAM BED ALTERATIONS ARE NOT PERMITTED.
- 5. MOTORIZED EQUIPMENT OR VEHICLES ARE NOT PERMITTED TO ENTER THE SANTA ANA RIVER.
- 6. SANTA ANA RIVER MAY NOT BE ACCESSED FROM THE SOUTH. CONSTRUCTION ACTIVITIES THAT TEMPORARILY IMPACT THE SANTA ANA RIVER WILL BE LIMITED TO THE TEMPORARY IMPACT AREA. DO NOT ALLOW CONSTRUCTION EQUIPMENT OR FOOT TRAFFIC OUTSIDE OF THE TEMPORARY IMPACT AREA. MINIMIZE TEMPORARY IMPACTS TO THE SANTA ANA RIVER.







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PREPARED BY:

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Orange

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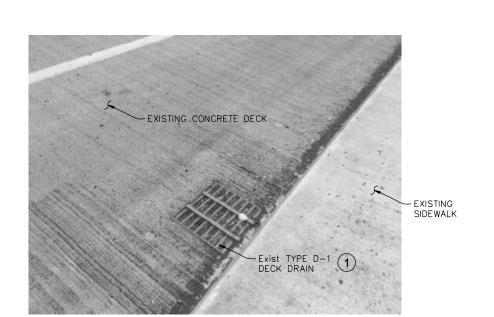
County

HARBOR BLVD BRIDGE OVER SANTA ANA RIVER BRIDGE NO. 55C0631 GENERAL NOTES

C — 0 0 1

SHEET





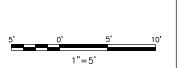
KEY NOTES

CLEAN BRIDGE DECK DRAINAGE SYSTEM PER SPECIAL PROVISIONS 60-6. TOTAL 6 DRAINS.

PLAN nts

# GENERAL NOTES

1. FOR GENERAL NOTES, SEE "GENERAL NOTES" SHEET C-001



County of Orange

HARBOR BLVD BRIDGE OVER SANTA ANA RIVER BRIDGE No. 55C0631

SHEET

C - 002

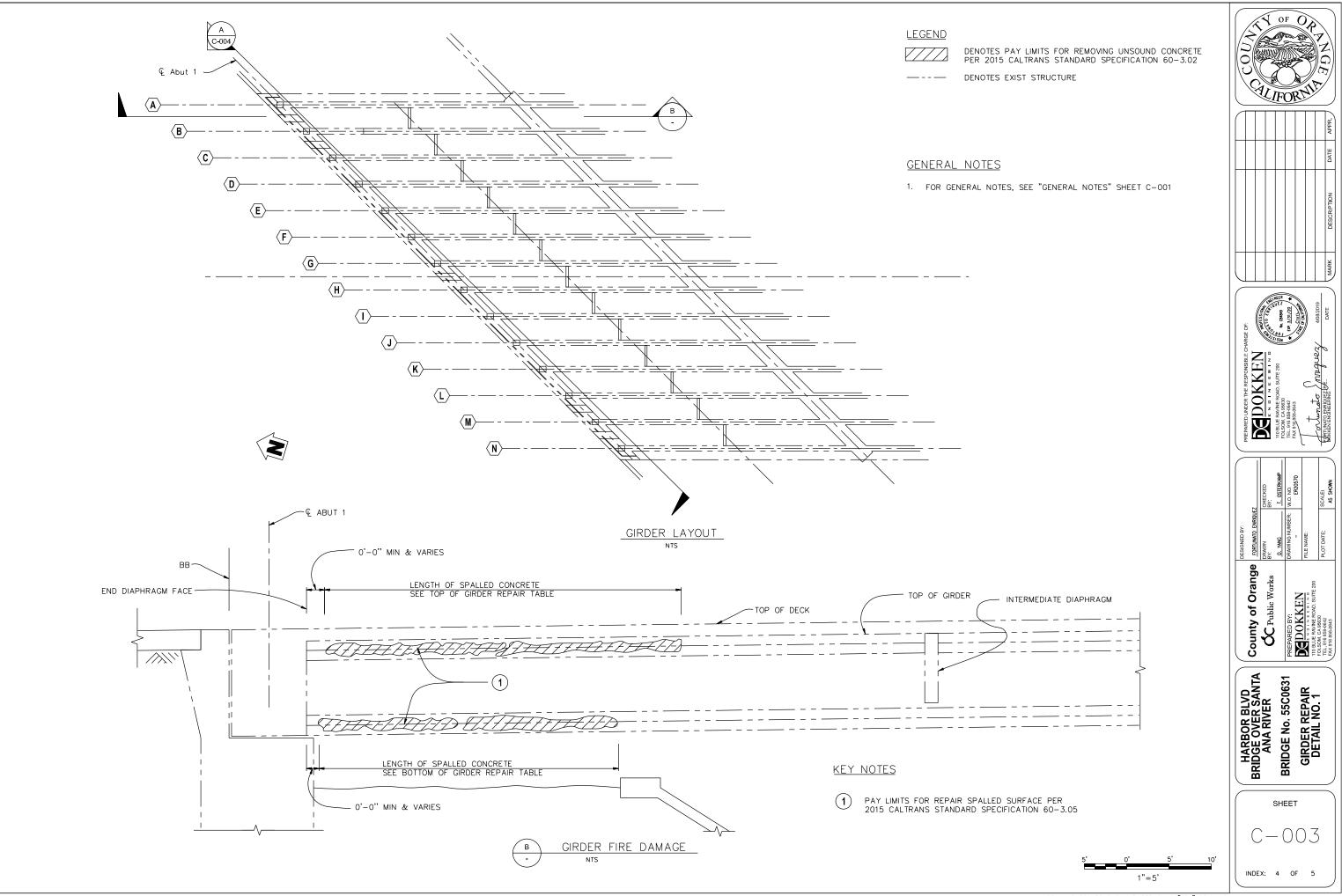
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SITE PLAN



SECTION A-A

TOF	OF	GIR	DEF	₹	
SPALL	REP	AIR	TΑ	<b>BL</b>	E
					_

GIRDER ID	GIRDER SPALL LENGTH		
GIRDER ID	Lt SIDE	Rt SIDE	
A	23'-0"±	ı	
B	19'-0''±	17'-0"±	
C	1	12'-6''±	
(D)	7'-0"±	ı	
E	13'-0"±	_	
F	ı	-	
G	-	-	
$\langle H \rangle$	1	-	
	8'-0"±	4'-0"±	
(T)	ı	4'-0"±	
⟨ <b>K</b> ⟩	_	_	
L	. 1		
M	ı		

LEFT SIDE

Exist TOP OF DECK-

EXPOSED REBAR-

RIGHT SIDE

— € GIRDER

TOP OF GIRDER

Exist GIRDER

TYPICAL Exist GIRDER

Exist SPALLED CONCRETE

-Exist SPALLED CONCRETE

BOTTOM OF GIRDER

 $\langle N \rangle$ 

# BOTTOM OF GIRDER SPALL REPAIR TABLE

GIRDER ID	GIRDER SPALL LENGTH		
GIRDER ID	Lt SIDE	Rt SIDE	
<b>(A</b> )	_	_	
B	4'-0''±	3'-0"±	
C	_	2'-0"±	
(D)	_	_	
E	_	_	
F	-	-	
G	-	-	
H	_	-	
	-	-	
J	-	-	
⟨ <b>K</b> ⟩	-	-	
L	-	-	
M	_	_	
$\langle N \rangle$	-	-	

### GENERAL NOTES

1. FOR GENERAL NOTES, SEE "GENERAL NOTES" SHEET C-001

## **LEGEND**

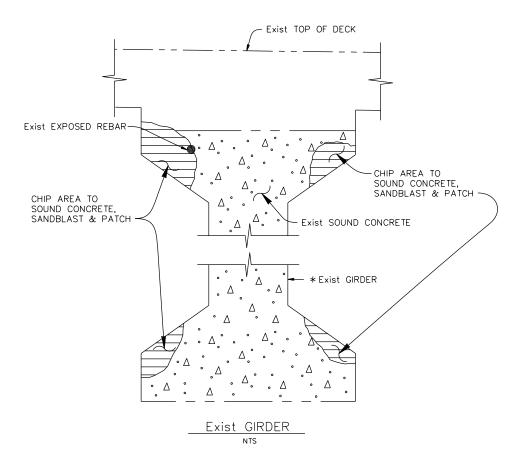
DENOTES REPAIR SPALLED SURFACE AREA PAY LIMITS PER 2015 CALTRANS STANDARD SPECIFICATIONS 60-3.05

DENOTES PREPARE CONCRETE DECK SURFACE PAY LIMITS PER 2015 CALTRANS STANDARD SPECIFICATIONS 60-3.02

DENOTES EXISTING STRUCTURE

### SPALLED SURFACE REPAIR NOTES:

- 1. LIMITS OF UNSOUND CONCRETE TO BE DETERMINED BY THE ENGINEER.
- 2. REMOVE UNSOUND CONCRETE TO EXPOSE SOUND, HARD, CONCRETE SUBSTRATE.
- SAND BLAST SPALL AND REINFORCEMENT TO REMOVE CORROSINS AND LOOSE MATERIAL. PROTECT SANTA ANA RIVER FROM DEBRIS.
- 4. FORM PATCH TO ORIGINAL GIRDER DIMENSIONS.
- 5. PLACE SIKAQUICK VOH OR EQUIVALENT.



\* FOR Exist GIRDER REINFORCEMENT SEE AS BUILT PLANS

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R N B I N E E D O C

County of Orange

HARBOR BLVD BRIDGE OVER SANTA ANA RIVER BRIDGE No. 55C0631 GIRDER REPAIR DETAIL NO. 2

SHEET

C - 004

INDEX: 5 OF 5

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DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING