

County of Orange CPublicWorks

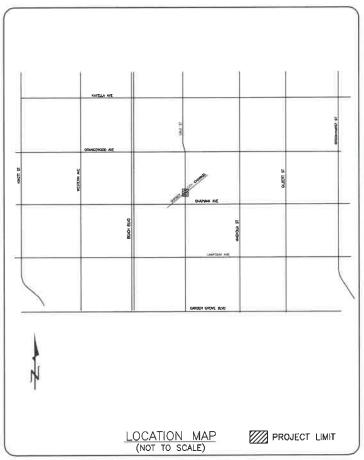
SANTA ANA, CALIFORNIA SHANE L. SILSBY, DIRECTOR PLANS FOR CONSTRUCTION OF

DALE STREET OVER ANAHEIM BARBER CITY CHANNEL BRIDGE PREVENTATIVE MAINTENANCE

BR. No. 55C0404

W.O. NO. ER 20562 **APRIL 2019**

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



2015 CALTRANS STANDARD PLANS

A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)

GENERAL NOTES:

CONTACT DIGALERT AT 1(800)422-4133 BEFORE

ALL NATIVE BIRDS ARE PROTECTED FROM DISTURBANCE WHILE 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 AT LEAST 7 DAYS BEFORE THE START OF WORK. 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 CONSTRUCTION ACTIVITY WITHIN 300 FEET OF AN ACTIVE NEST (500 FEET FOR RAPTORS) SHOULD BE DELAYED UNTIL THE NEST IS NO LONGER ACTIVE, OR OTHERWISE APPROVED BY THE REGULATORY PERMITTING TEAM OR THEIR REPRESENTATIVE.

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 AT LEAST 7 DAYS BEFORE THE START OF WORK TO CONDUCT A BAT SURVEY

COUNTY OF ORANGE PUBLIC WORKS DEPARTMENT SUBMITTED PAUL JEFFREY ERNST, P.E. MANAGER OC INFRASTRUCTURE PROGRAMS ENGINEERING DIVIGION ASSISTANT PUBLIC WORKS DIRECTOR COUNTY ENGINEER

RECORD DRAWING

CONTRACTOR:	
RESIDENT ENGINEER:	
INSPECTOR:	
CONSTRUCTION START DATE:	
CONSTRUCTION COMPLETION DATE:	

PREPARED BY



DESCRIPTION

W. O. NO. ER 20562 DWG. NO._

SHEET 1 OF 4

SHT. APPROVED DATE REVISIONS

INDEX OF SHEETS

DESCRIPTION

TITLE SHEET

GENERAL PLAN

CONTACT

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ALECIA HOFER

MIKE CAMPISI

JUST ARTINO

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(714) 741-5887

(213) 231-6081

(714) 973-5488

CHAIN LINK FENCE DETAILS

SPALL AND CRACK REPAIR DETAILS

T1

S2

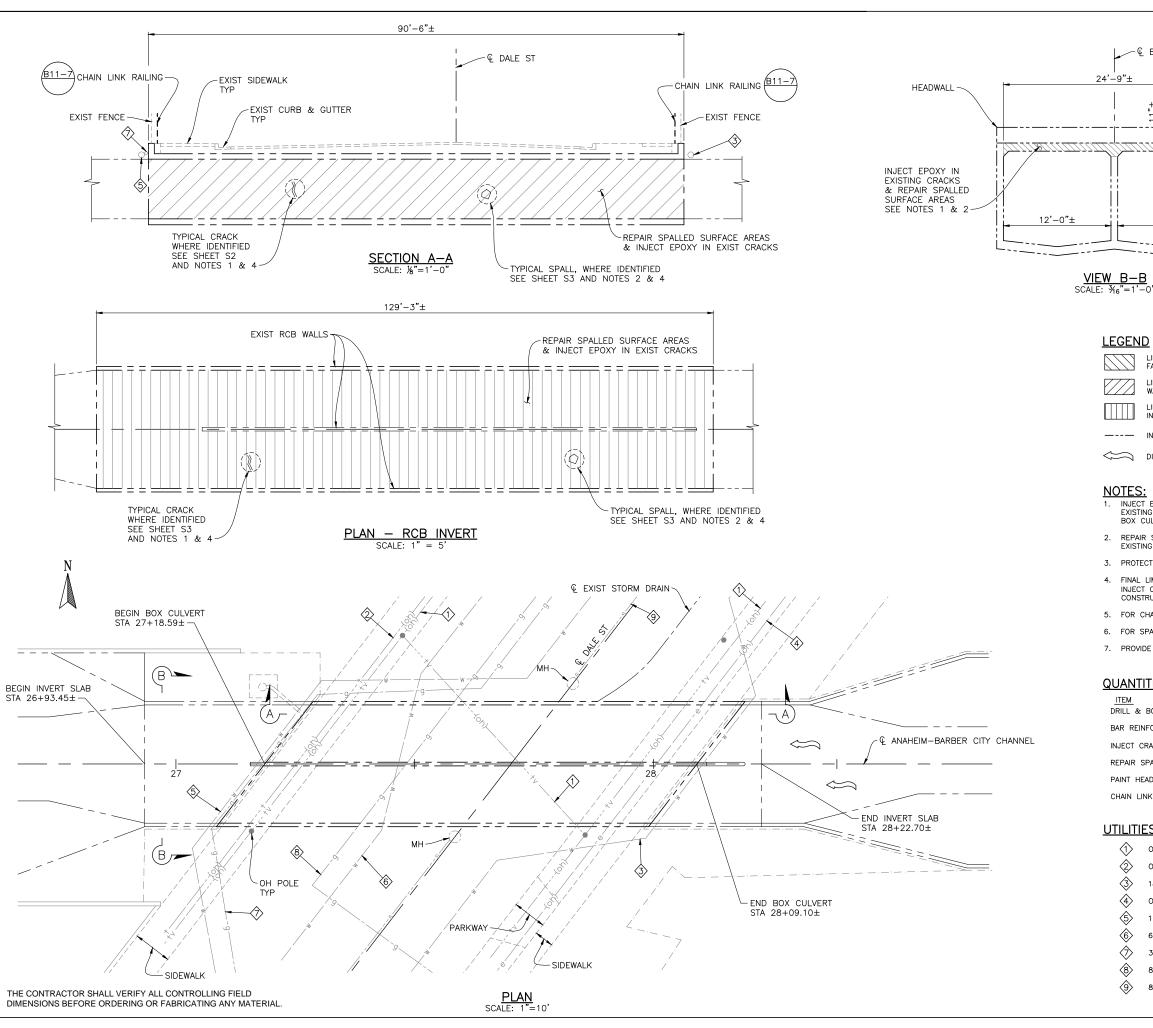
UTILITY OWNER

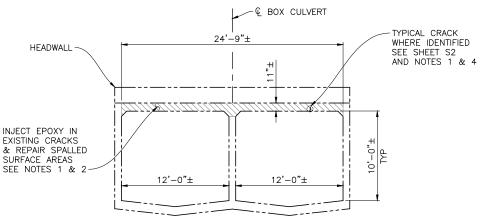
AT&T DISTRIBUTION

CHARTER COMMUNICATIONS

SOUTHERN CALIFORNIA GAS DISTRIBUTION

CITY OF GARDEN GROVE PUBLIC WORKS





LEGEND

--- INDICATES EXISTING

LIMITS OF CONCRETE BOX CULVERT TOP SLAB



LIMITS OF EXISTING CONCRETE BOX CULVERT



LIMITS OF EXISTING CONCRETE BOX CULVERT INVERT SLAB



DIRECTION OF FLOW

NOTES:

- INJECT EPOXY IN EXISTING CRACKS WITHIN LIMITS OF EXISTING CONCRETE BOX CULVERT WALLS & CONCRETE BOX CULVERT TOP SLAB FACE.
- REPAIR SPALLED SURFACE AREAS WITHIN THE LIMITS OF EXISTING CONCRETE BOX CULVERT & TOP SLAB FACE.
- 3. PROTECT-IN-PLACE ALL EXISTING UTILITIES.
- 4. FINAL LIMITS OF REPAIR SPALLED SURFACE AREA AND INJECT CRACK (EPOXY) TO BE ESTABLISHED DURING
- 5. FOR CHAIN LINK FENCE DETAILS, SEE SHEET S2.
- 6. FOR SPALL AND CRACK REPAIR DETAILS, SEE SHEET S3.
- 7. PROVIDE TRAFFIC CONTROL PER SPECIFICATION F-3.

QUANTITIES

ITEM DRILL & BOND DOWEL	QUANTITY 11 LF
BAR REINFORCING STEEL	110 LB
INJECT CRACK (EPOXY)	300 LF
REPAIR SPALLED SURFACE AREA	20 SQF
PAINT HEADWALL	52 SQFT
CHAIN LINK PAILING	90 LF

UTILITIES

- \bigcirc OVERHEAD TV (CHARTER COMMUNICATIONS)
- OVERHEAD TEL (AT&T)
- 3> 18" Ø CONC ENCASED WATER (CITY OF GARDEN GROVE)
- OVERHEAD ELECTRIC (SCE)
- 16" OCONC ENCASED WATER (CITY OF GARDEN GROVE)
- **6** 6"ø WATER (CITY OF GARDEN GROVE)
- \Diamond 3"ø GAS (SO CAL GAS DISTRIBUTION)
- 8"ø HP GAS (SO CAL GAS TRANSMISSION)
 - 8"ø SEWER (CITY OF GARDEN GROVE)





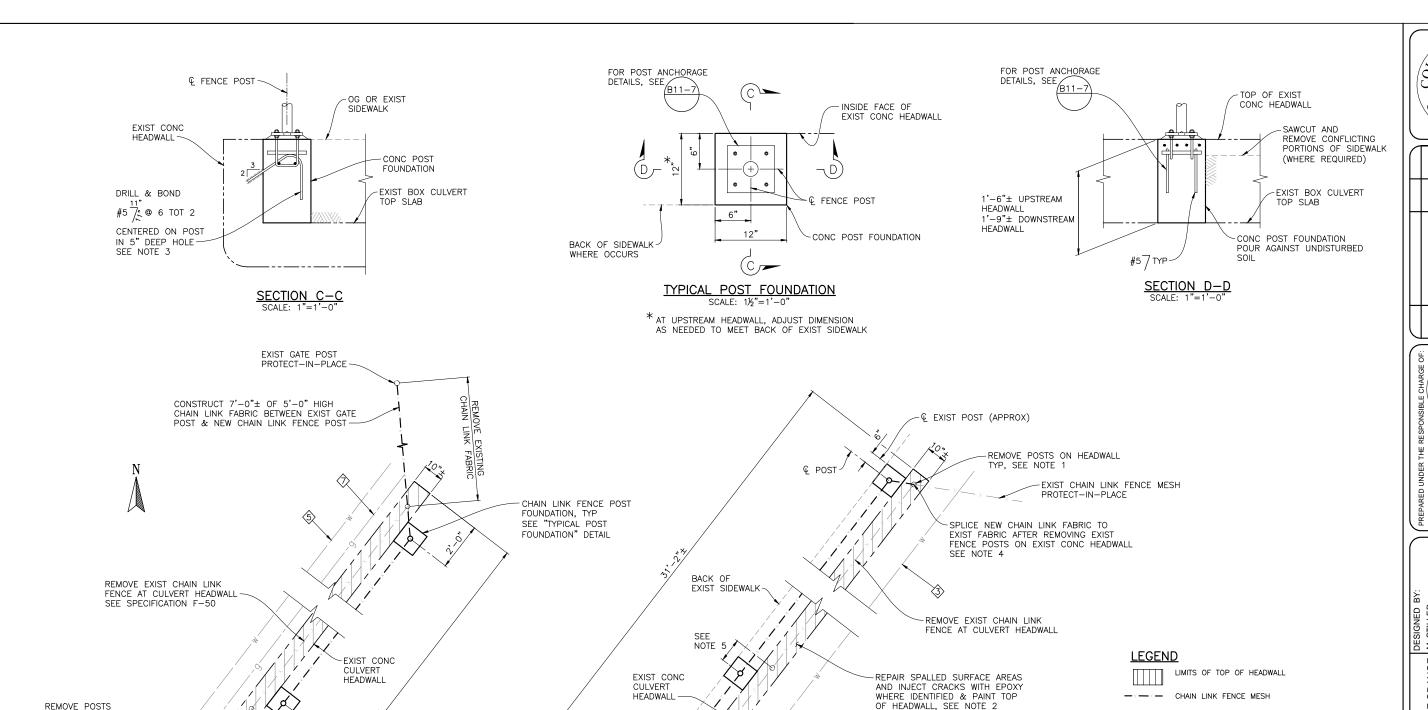


	CHECK	M. CH.	DE:			MG MG	SCALF
M. STILLER	DRAWN BY:	R. ANDRASEK M. CH.	DRAWING CC		FILE NAME:	02_DALE ST.D	PI OT DATE
COUNTY OF ORANGE M. STILLER	OC PUBLIC WORKS DRAWN BY: CHECK		NCM ENGINEERING CORP. DRAWING CODE:	22362 GILBERTO	PANICHO SANTA MARGARITA	CALIFORNIA 02688 02_DALE ST.DWG	CALII CININIA, 92000

PLAN DALE STREET O BARBER CITY O PREVENTATIVE Br. No. 5 GENER/

> Reference Number

Sheet 2 of 4



EXIST CHAIN LINK FENCE MESH

PROTECT-IN-PLACE

-SPLICE NEW CHAIN LINK FABRIC TO EXIST FABRIC AFTER REMOVING EXIST

SEE NOTE 4

PLAN - UPSTREAM HEADWALL FENCE

SCALE: ½"=1'-0

-OMIT DRILL & BOND DOWEL

BEYOND LIMITS OF EXISTING HEADWALL

FENCE POSTS ON EXIST CONC HEADWALL

CHAIN LINK FENCE

(MOD)

CHAIN LINK FENCE POST

FOUNDATION, TYP SEE TYPICAL POST

FOUNDATION DETAIL

SEE SPECIFICATION

HEIGHT = 5'-0" NO HANDRAIL

2" MESH SIZE

<u>/B11−7</u>

F - 50

REMOVE EXISTING FENCE POSTS FLUSH WITH TOP OF EXISTING CONCRETE HEADWALL & GRIND SMOOTH. PAINT TOP OF HEADWALL AFTER POST REMOVAL, POST HOLE MORTAR FILL AND CRACK REPAIR WORK IS COMPLETE.

EXISTING CHAIN LINK FENCE MESH

- 2. REPAIR SPALLED SURFACE AREAS AND INJECT CRACKS IN EXISTING HEADWALL WITH EPOXY WITHIN THE LIMITS OF TOP OF HEADWALL. SEE SPECIFICATION F-47. FINAL LIMITS OF
- DRILL AND BOND DOWEL ACCORDING TO SPECIFICATION F-45 AND PLACE BAR REINFORCING UNDER SPECIFICATION
- 5. OFFSET FENCE POST LOCATIONS FROM EXISTING POST





COUNTY OF ORANGE OC PUBLIC WORKS DRAWN BY: CHECK OC PUBLIC WORKS R. ANDRASEK M. CH NCM ENGINEERING CORP. DRAWING CODE: 22382 GILBERTO RANCHO SANTA MARGARITA O3 DALE ST DWG CALIFORNIA, 92688	5 2 2 2 2
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IN LINK FENCE DETAILS CHAIN

> Reference Number

Sheet 3 of 4

NOTES:

INJECT CRACK (EPOXY) AND REPAIR SPALLED SURFACE AREA TO BE ESTABLISHED DURING CONSTRUCTION.

- 4. SPLICE OR JOIN CHAIN LINK FABRIC WITHOUT CUTTING THE EXISTING OR NEW FABRIC. WEAVE AN INDIVIDUAL SPIRAL INTO BOTH SIDES OF SPLICE THEN BEND TOP AND BOTTOM
- LOCATIONS BY 1'-O" MINIMUM AND AS-NEEDED TO AVOID SPALLED AREAS OF EXISTING HEADWALL.

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

POST, TYP

CONSTRUCT 15'-0"± OF 5'-0" HIGH CHAIN LINK FABRIC BETWEEN EXIST CORNER POST & NEW CHAIN LINK

FENCE POST

PLAN - DOWNSTREAM HEADWALL FENCE

SCALE: ½"=1'-0

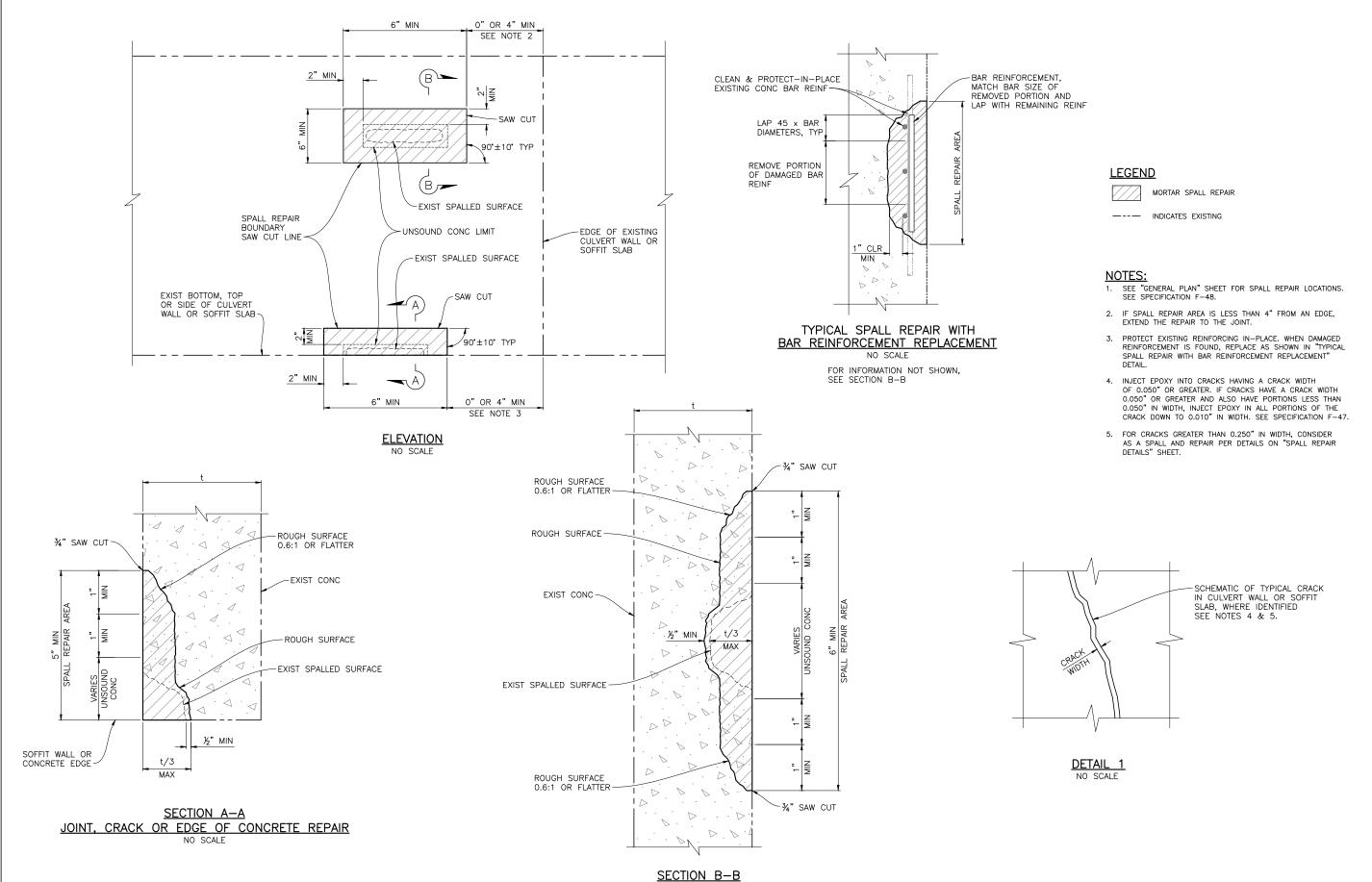
ON HEADWALL &

EXIST CORNER POST

PROTECT-IN-PLACE

REMOVE EXISTING

FILL WITH MORTAR, TYP SEE NOTES 1 & 2



MISCELLANEOUS SPALL

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD

DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NO SCALE

REPAIR







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		CHECKED BY	M. CHAR	DE:		WG	SCALE:	AWCHO: SA
DESIGNED BY:	M. STILLER	DRAWN BY:	R. ANDRASEK M. CHAR	DRAWING CC	FILE NAME:	04_DALE ST.D	PLOT DATE: SCALE:	4/4/19 AS SHOWN
	COUNTY OF ORANGE M. STILLER	OC PUBLIC WORKS DRAWN BY: CHECKED BY:		NCM ENGINEERING CORP. DRAWING CODE:	22362 GILBERTO	CALIEDANIA 02688 04 DALE ST.DWG	CALIFORNIA, 92000	

DALE STREET OVER ANAHIEM
BARBER CITY CHANNEL (E01)
PREVENTATIVE MAINTENANCE
Br. No. 55C0404
SPALL AND CRACK
REPAIR DETAILS

Sheet Reference Number

S3

Sheet 4 of 4