

# IN THE CITY OF PALM DESERT, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

# 2022-2023 BRIDGE PREVENTIVE MAINTENANCE PROGRAM

## PROJECT NO. 759-23

BRIDGE No. 56C-0167 FRED WARING DRIVE BRIDGE AT PALM VALLEY STORMWATER CHANNEL  
 BRIDGE No. 56C-0327 THRUSH ROAD BRIDGE AT PALM VALLEY STORMWATER CHANNEL  
 BRIDGE No. 56C-0329 PARK VIEW DRIVE BRIDGE AT PALM VALLEY STORMWATER CHANNEL  
 BRIDGE No. 56C-0347 PORTOLA AVENUE BRIDGE AT HAYSTACK CHANNEL  
 BRIDGE No. 56C-0494 COOK STREET BRIDGE AT WHITEWATER RIVER

### PALM DESERT GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THIS PLAN, THE STANDARD DRAWINGS AND SPECIFICATIONS OF THE CITY OF PALM DESERT, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE 2018 CALTRANS STANDARD PLANS AND 2018 CALTRANS STANDARD SPECIFICATIONS WHEN APPLICABLE.
- NO CONSTRUCTION IS AUTHORIZED WITHOUT THE APPROPRIATE PERMITS ISSUED BY THE CITY OF PALM DESERT PUBLIC WORKS DEPARTMENT.
- THE ENGINEER-OF-WORK SHALL BE NOTIFIED WHEN CONSTRUCTION HAS COMMENCED.
- IN THE EVENT OF DISCREPANCIES AND/OR DEVIATIONS ARISING DURING CONSTRUCTION, THE ENGINEER-OF-WORK SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE DIRECTOR OF PUBLIC WORKS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO ONSITE, OFFSITE AND ADJACENT UTILITIES, FACILITIES AND PROPERTIES.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTY OWNERS FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONJUNCTION WITH CONSTRUCTION OF THESE IMPROVEMENT PLANS.
- THE CONTRACTOR, AT NO EXPENSE TO THE CITY, SHALL PROVIDE ALL NECESSARY SAMPLES AND TESTS THAT THE DIRECTOR OF PUBLIC WORKS MAY REQUIRE TO ASSURE THAT QUALITY OF MATERIAL AND WORKMANSHIP ARE IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK AND SHALL MAINTAIN ALL FACILITIES, COMPLETED AND UNCOMPLETED, UNTIL ACCEPTED BY THE CITY.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS IN PALM DESERT AT (760) 776-6450 AT LEAST 48 HOURS PRIOR TO COMMENCING ANY WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES. FOR THE LOCATION OF UNDERGROUND UTILITIES OR FOR EMERGENCY ASSISTANCE CALL:
 

WATER	COACHELLA VALLEY WATER DISTRICT	760-398-2651
SEWER	COACHELLA VALLEY WATER DISTRICT	760-398-2651
ELECTRIC	SOUTHERN CALIFORNIA EDISON	760-202-4291
GAS	THE GAS COMPANY	1-800-427-2200
TELEPHONE	VERIZON CALIFORNIA, INC.	1-800-483-1000
CABLE	SPECTRUM (TWC)	760-340-1312
DIG ALERT	CITY OF PALM DESERT	1-800-227-2600
TRAFFIC	CITY OF RANCHO MIRAGE	760-776-6450
		760-770-3224
- THE DEPARTMENT OF PUBLIC WORKS DOES NOT ASSUME ANY RESPONSIBILITY FOR THE ACCURACY OF THE QUANTITIES SHOWN HEREON.
- THESE PLANS MAY BE SUBJECT TO REVIEW AND/OR REVISION BY THE CITY OF PALM DESERT DEPARTMENT OF PUBLIC WORKS, IF CONSTRUCTION HAS NOT COMMENCED WITHIN 12 MONTHS FROM THE DATE OF APPROVAL BY THE DIRECTOR OF PUBLIC WORKS.
- ALL P.C.C. AND A.C. REMOVALS SHALL BE OUTLINED TO NECESSARY WORKING LIMITS AND SAWCUT TO A MINIMUM DEPTH OF 2 INCHES PRIOR TO REMOVAL. ALL DEBRIS CREATED BY THE REMOVAL OPERATIONS SHALL BE DISPOSED OF AWAY FROM THE JOB SITE IN A MANNER AND LOCATION ACCEPTABLE TO ALL CONCERNED AGENCIES AND ORGANIZATIONS.
- ALL P.C.C. AND A.C. IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR AT NO COST TO THE CITY OF PALM DESERT.

- STREETS IN THE CONSTRUCTION AREA SHALL BE KEPT CLEAN AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING OF THE PROPOSED WORK AREA.
- NO PUBLIC STREET SHALL BE CLOSED TO TRAFFIC WITHOUT PRIOR WRITTEN APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.
- NO TRENCHES SHALL REMAIN OPEN OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.
- FAILURE TO COMPLY WITH ANY OF THE ABOVE ITEMS SHALL BE SUFFICIENT CAUSE FOR THE CITY TO ARRANGE FOR NECESSARY WORK TO BE COMPLETED BY OTHERS. COSTS TO COMPLETE THE WORK BY OTHERS WILL BE CHARGED TO THE CONTRACTOR.
- ALL LANDSCAPING AND IRRIGATION THAT IS DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED TO THE APPROVAL OF THE CITY AND THE PROPERTY OWNER.
- CONTRACTOR MUST OBTAIN APPROVAL FOR ANY LANE CLOSURES A MINIMUM OF 48 HOURS IN ADVANCE.
- CONTRACTOR SHALL CALL THE PUBLIC WORKS DEPARTMENT TO REQUEST INSPECTION A MINIMUM OF 24 HOURS PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL KEEP THE INSPECTOR INFORMED OF PROGRESS OF THE WORK ON A DAILY BASIS. IMPROVEMENTS PLACED WITHOUT INSPECTION MAY BE REJECTED AND ARE SUBJECT TO REMOVAL.

ABBREVIATION	DEFINITION
AC	ASPHALT CONCRETE
BB	BEGIN BRIDGE
C	CENTERLINE
CMPA	CORRUGATED METAL PIPE ARCH
Conc.	CONCRETE
DVWD	COACHELLA VALLEY WATER DISTRICT
EB	END BRIDGE
ELEV	ELEVATION
ETW	EDGE OF TRAVELLED WAY
Exist	EXISTING
FG	FINISHED GRADE
ga	GAGE
HC	YSTACK CHANNEL
JT	JOINT
MAX	MAXIMUM
MIN	MINIMUM
No.	NUMBER
D.C.	ON CENTER
DG	ORIGINAL GROUND
PC/PS	PRECAST/PRESTRESSED
PVSC	PALM VALLEY STORMWATER CHANNEL
SCE	SOUTHERN CALIFORNIA EDISON
SCG	SOUTHERN CALIFORNIA GAS
WR	WHITEWATER RIVER

CALTRANS 2018 STANDARD PLAN SHEET No.



### EXISTING UNDERGROUND UTILITIES

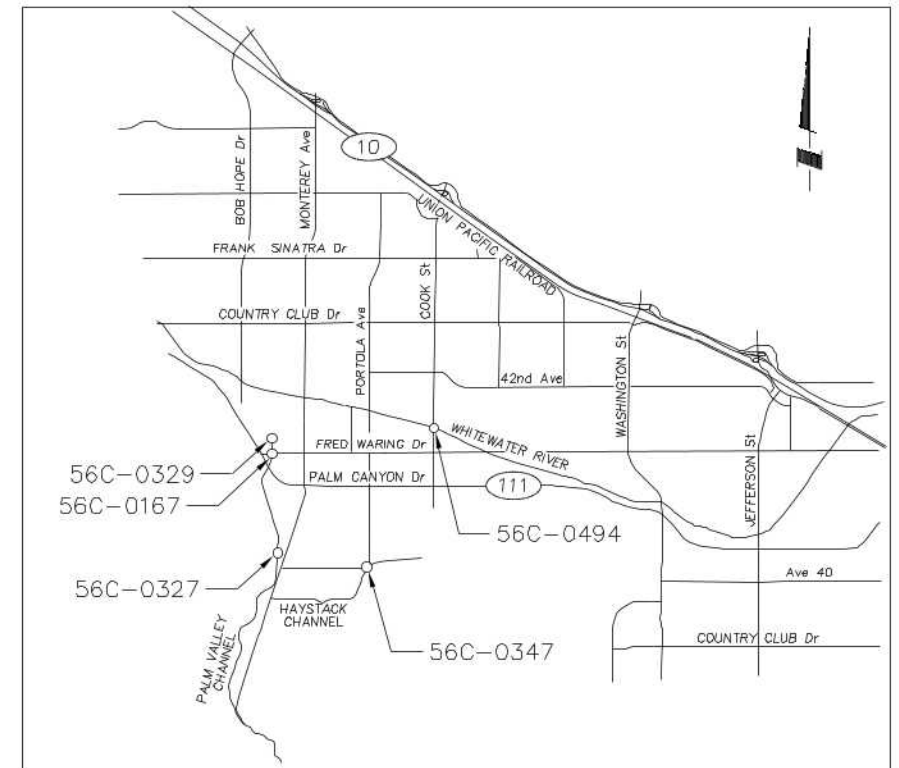
SANITARY SEWER	---	S	---
WATER LINE	---	W	---
STORM DRAIN	---	S.D.	---
GAS LINE	---	G	---
IRRIGATION LINE	---	IRR.	---
IRRIGATION LINE	---	T	---
ELECTRICAL CONDUIT	---	E	---
STREET LIGHTING	---	SL	---
TRAFFIC SIGNAL	---	SIG	---
CABLE TELEVISION	---	CTV	---

### EXISTING TOPOGRAPHY

	BLOCK WALL
	TOP OF SLOPE
	TOE OF SLOPE
	DIRECTION OF FLOW
	RETAINING WALL
	EXISTING FACILITIES
	SANITARY SEWER M.H.
	STORM DRAIN M.H.
	JOINT USE POLE
	VALVE

### PROPOSED IMPROVEMENTS

	BREAK LINE
	IMPROVEMENTS
	SAWCUT



VICINITY MAP  
NOT TO SCALE

SHEET INDEX	
1	TITLE, INDEX AND NOTES
2	BRIDGE No. 56C-0167 FRED WARING DRIVE BRIDGE AT PVSC
3	BRIDGE No. 56C-0327 THRUSH ROAD BRIDGE AT PVSC
4-5	BRIDGE No. 56C-0329 PARK VIEW DRIVE BRIDGE AT PVSC
6	BRIDGE No. 56C-0347 PORTOLA AVENUE BRIDGE AT HC
7-8	BRIDGE No. 56C-0494 COOK STREET BRIDGE AT WR

### PROJECT INFO

**PROJECT:**  
2022-2023 BRIDGE PREVENTIVE MAINTENANCE IMPROVEMENTS LOCATED IN THE CITY OF PALM DESERT, CA 92260

**OWNER:**  
CONTACT: MARTIN ALVAREZ  
CITY OF PALM DESERT  
73510 FRED WARING DR.  
PALM DESERT, CA 92260  
760-776-6450

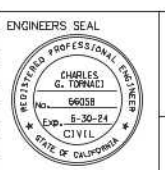
**CIVIL ENGINEER:**  
CHARLES TORNACI  
DOKKEN ENGINEERING  
1450 FRAZEE ROAD,  
SUITE 100  
SAN DIEGO, CA 92108  
858-514-8377

2022-2023 BPMP  
PROJECT NO. 759-23  
AS BUILT PLANS



CITY OF RANCHO MIRAGE  
APPROVED BY:  
(SHEETS 4 & 5)  
*Leland E. Cole*  
LELAND E. COLE  
CITY ENGINEER  
R.C.E. 47159, EXP. 12/31/2023  
DATE: 3-22-23

ENGINEER	REVISIONS	CITY	ENGINEERS SEAL
MARK	BY	DATE	APPR. DATE



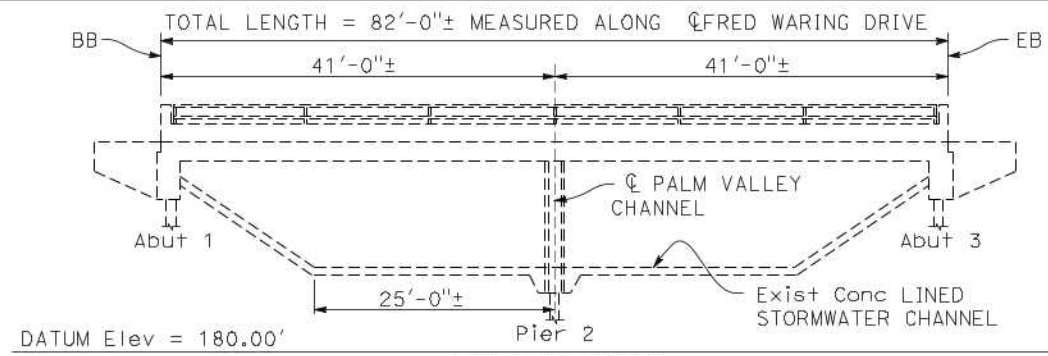
**DOKKEN ENGINEERING**  
1450 FRAZEE ROAD, SUITE 100, SAN DIEGO, CA 92108  
PH: (619) 514-8377 FAX: (619) 514-8028  
PREPARED UNDER THE DIRECT SUPERVISION OF:  
*Charles Tornaci*  
DATE: 03/21/2023  
CHARLES G. TORNACI, R.C.E. NO. 68058 EXP. 6/30/24

CITY OF PALM DESERT  
DEPARTMENT OF PUBLIC WORKS  
APPROVED BY:  
*Steven Latino*  
STEVEN LATINO, P.E.  
ACTING CITY ENGINEER  
R.C.E. 73430, EXP. 12/31/2024  
REVIEWED AND RECOMMENDED BY:  
DATE: 03/27/2023



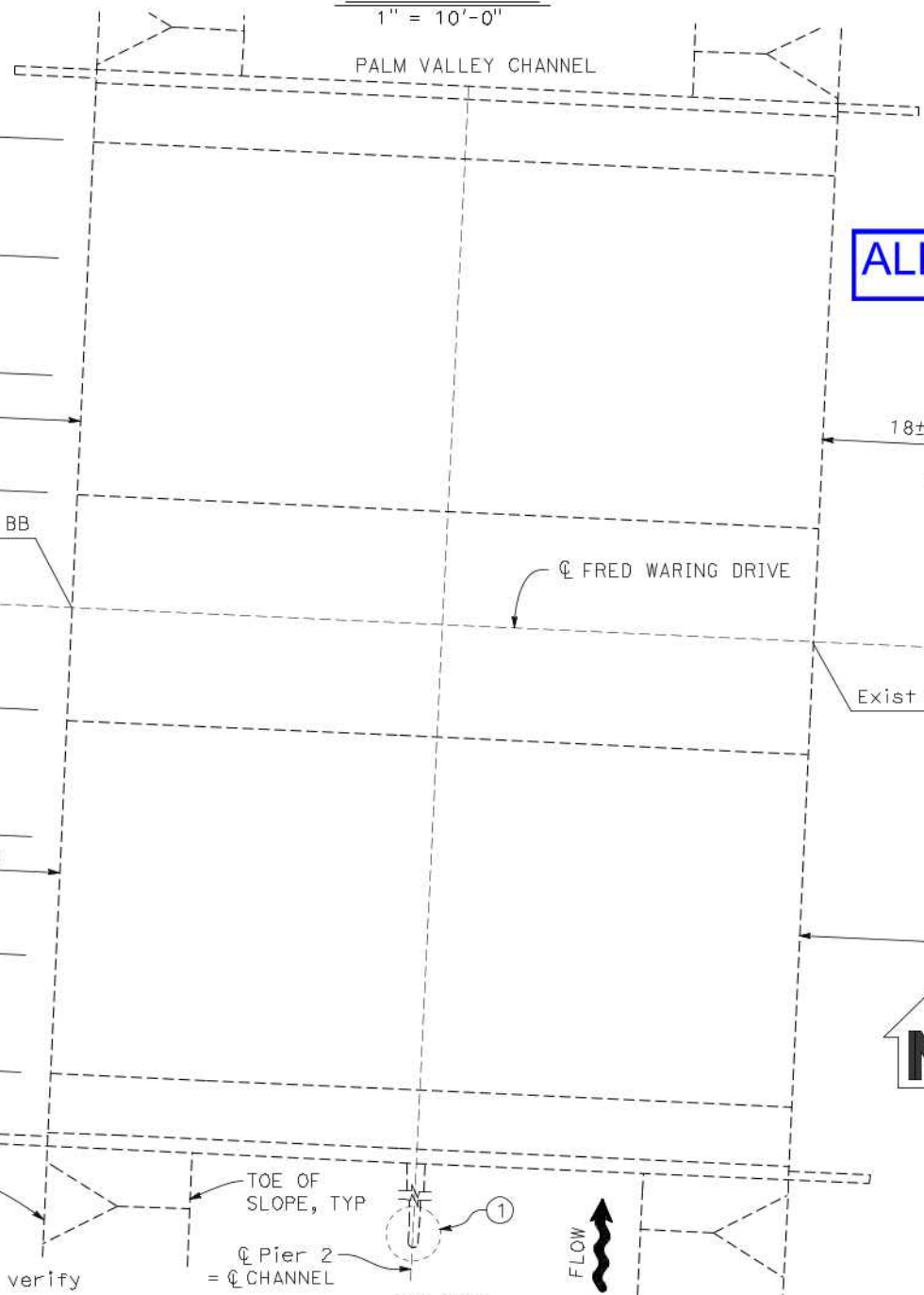
CITY OF PALM DESERT  
**2022-2023 BRIDGE PREVENTIVE MAINTENANCE PROGRAM**  
TITLE, INDEX AND NOTES

SHEET 1  
OF 8 SHEETS  
CITY FILE NUMBER



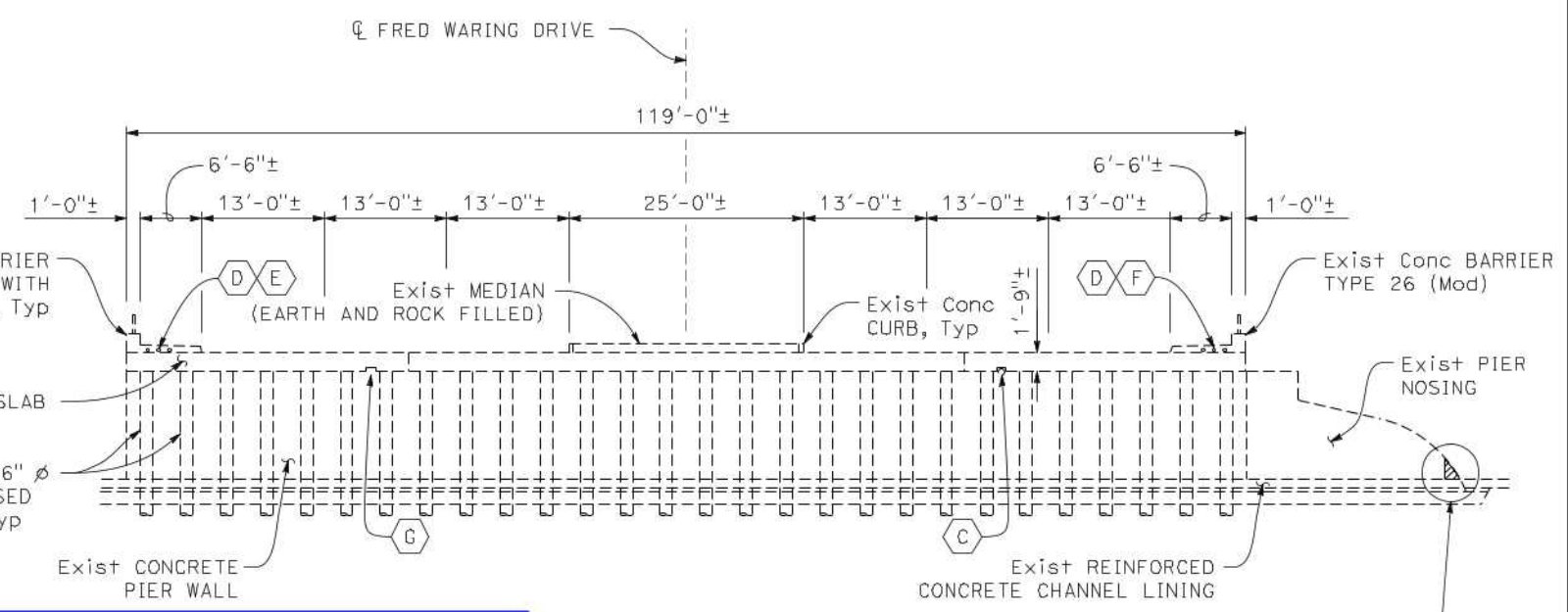
**ELEVATION**

1" = 10'-0"



**PLAN**

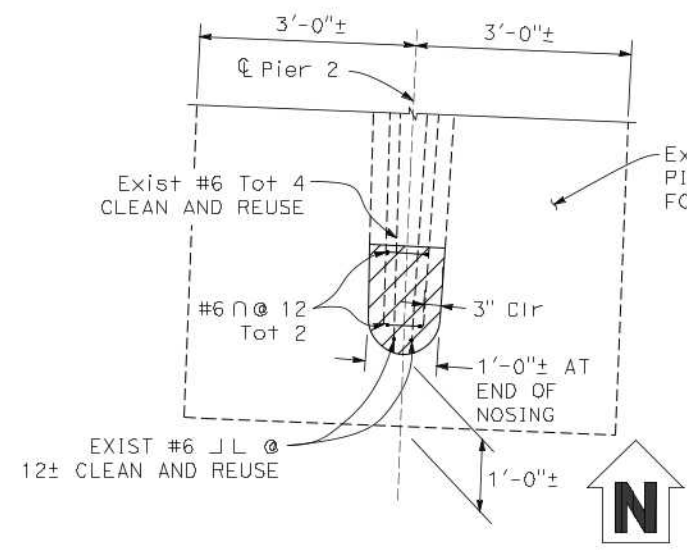
1" = 10'-0"



**TYPICAL SECTION**

1" = 10'-0"

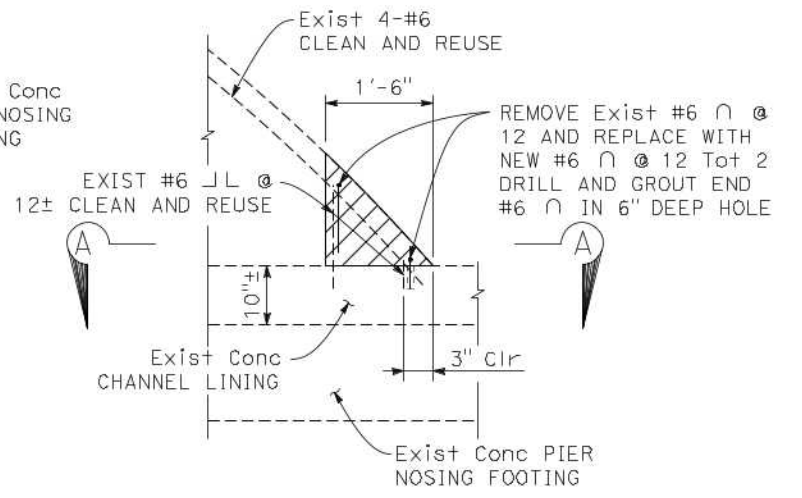
**ALL WORK INSTALLED PER PLAN**



**SECTION A-A**

**PIER NOSING SPALL REPAIR**

3/4" = 1'-0"



**EXISTING NOSE ELEVATION**

NOTE: The Contractor shall verify all controlling field dimensions before ordering or fabricating any materials

**EXISTING UTILITIES LEGEND**

- A STORM DRAIN MANHOLE
- B CVWD SEWER MANHOLE/LINE
- C So. Cal. EDISON GAS LINE
- D STREET LIGHTING CONDUITS
- E So. Cal. EDISON - ELECTRICAL CONDUITS (HIGH VOLTAGE)
- F SIGNAL CONTROL CONDUITS
- G FUTURE UTILITY OPENING

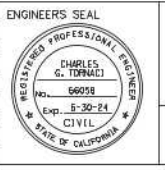
**CONSTRUCTION NOTES:**

- 1 Remove Unsound Conc at Pier Nosing and Rebuild. See "PIER NOSING SPALL REPAIR".
- Denotes limits of Pier Nosing Concrete Removal and place new Concrete Pier Nosing.

**2022-2023 BPMP PROJECT NO. 759-23 AS BUILT PLANS**



MARK	BY	DATE	REVISIONS	QTY	APPR	DATE



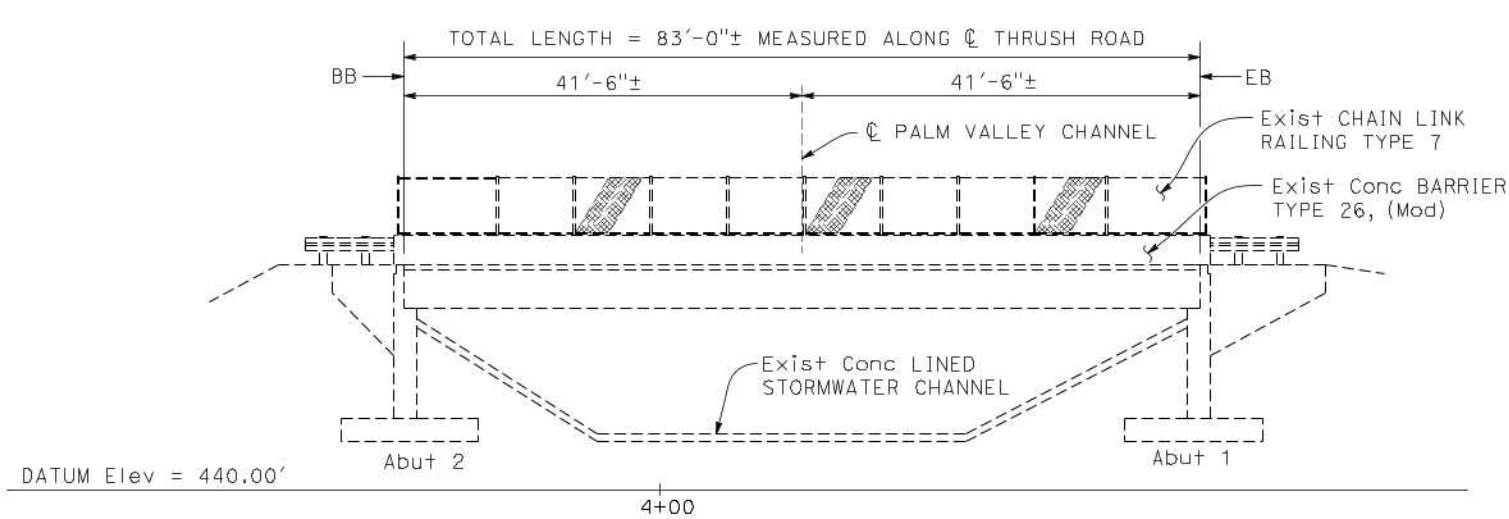
**DOKKEN ENGINEERING**  
 1450 Firenze Road, Suite 100, San Diego, CA 92108  
 PH: (619) 514-8377 FAX: (619) 514-8608  
 PREPARED UNDER THE DIRECT SUPERVISION OF:  
 Charles Tornaci DATE: 03/21/2023  
 CHARLES G. TORNAZI, R.C.E. NO. 66058 EXP. 6/30/24

CITY OF PALM DESERT  
 DEPARTMENT OF PUBLIC WORKS  
 APPROVED BY: [Signature] DATE: 03/27/2023  
 STEVEN LATINO, P.E.  
 ACTING CITY ENGINEER  
 R.C.E. 73430, EXP. 12/31/2024  
 REVIEWED AND RECOMMENDED BY: DATE:

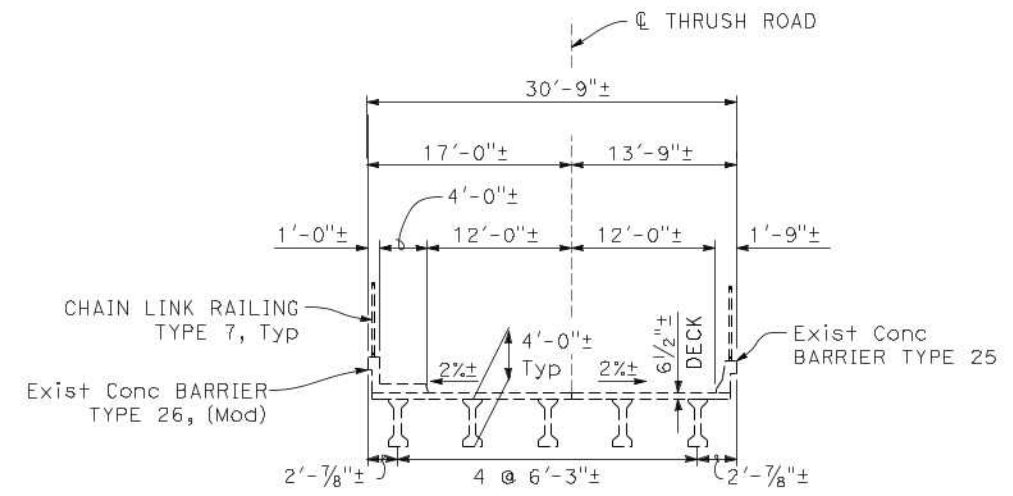


CITY OF PALM DESERT  
**2022-2023 BRIDGE PREVENTIVE MAINTENANCE**  
**Br. No. 56C-0167 FRED WARING DRIVE BRIDGE AT**  
**PALM VALLEY CHANNEL**  
**GENERAL PLAN SHEET**

SHEET **2**  
 OF SHEETS **8**  
 CITY FILE NUMBER

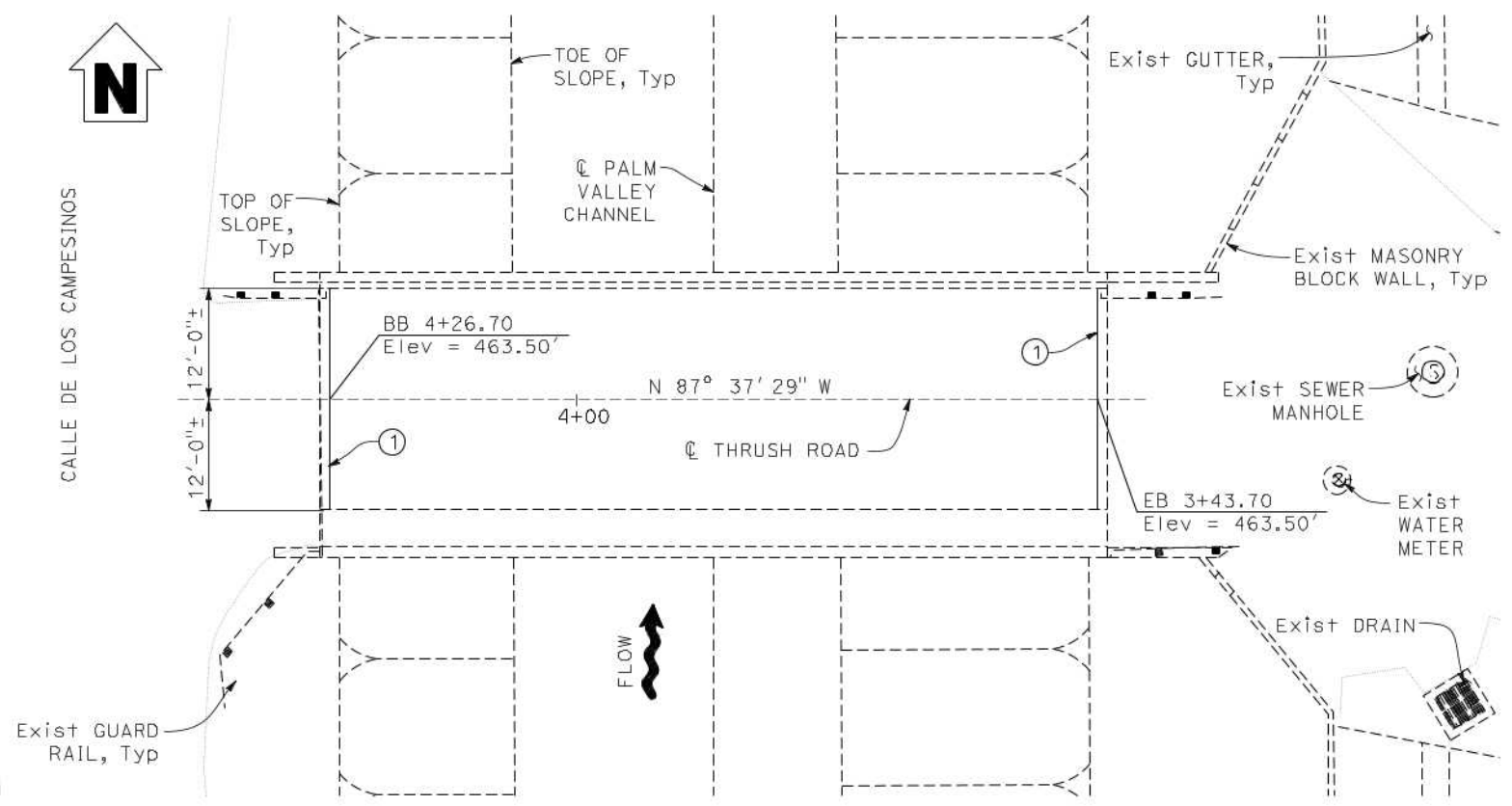


**ELEVATION**  
1" = 10'

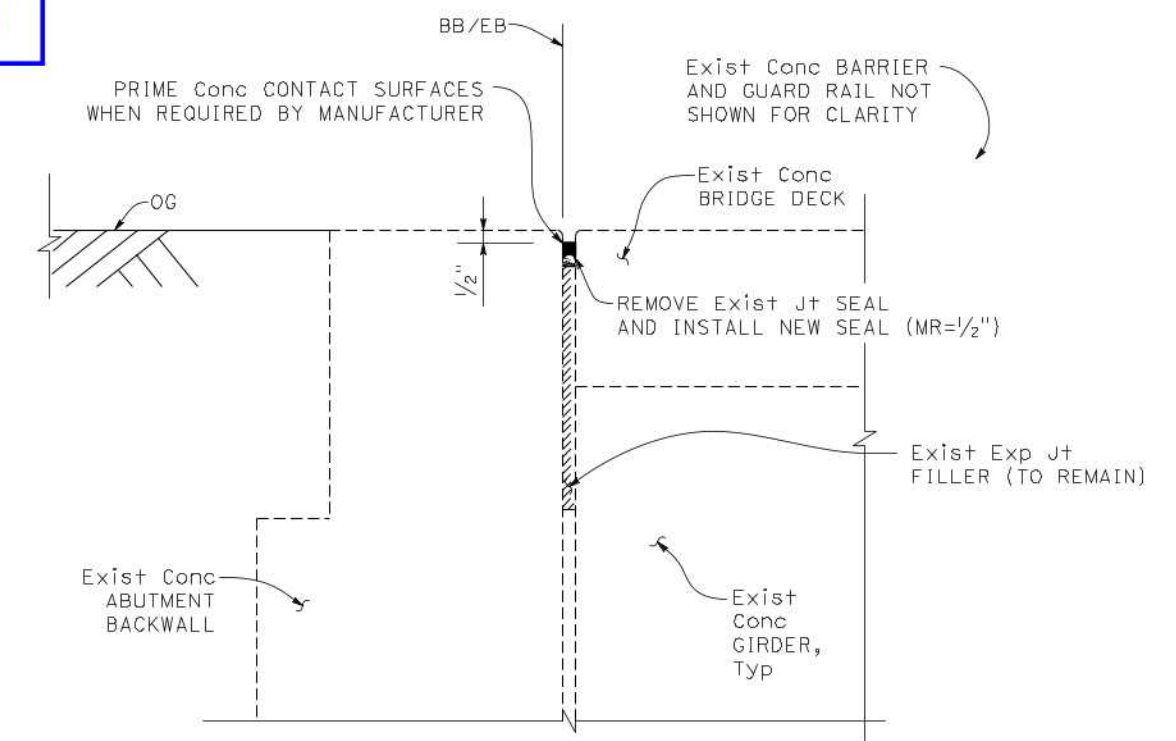


**TYPICAL SECTION (LOOKING UPSTATION)**  
1/8" = 1'-0"

ALL WORK INSTALLED PER PLAN



**PLAN**  
1" = 10'



**JOINT SEAL REPLACEMENT**  
3" = 1'-0"

2022-2023 BPMP  
PROJECT NO. 759-23  
AS BUILT PLANS

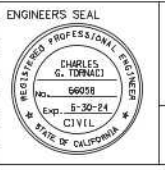
NOTE: The Contractor shall verify all controlling field dimensions before ordering or fabricating any materials

**CONSTRUCTION NOTES:**

- ① Remove and Replace Exist Expansion Joint Seal (MR 1/2").



ENGINEER	BY	DATE	REVISIONS	QTY	APPR	DATE



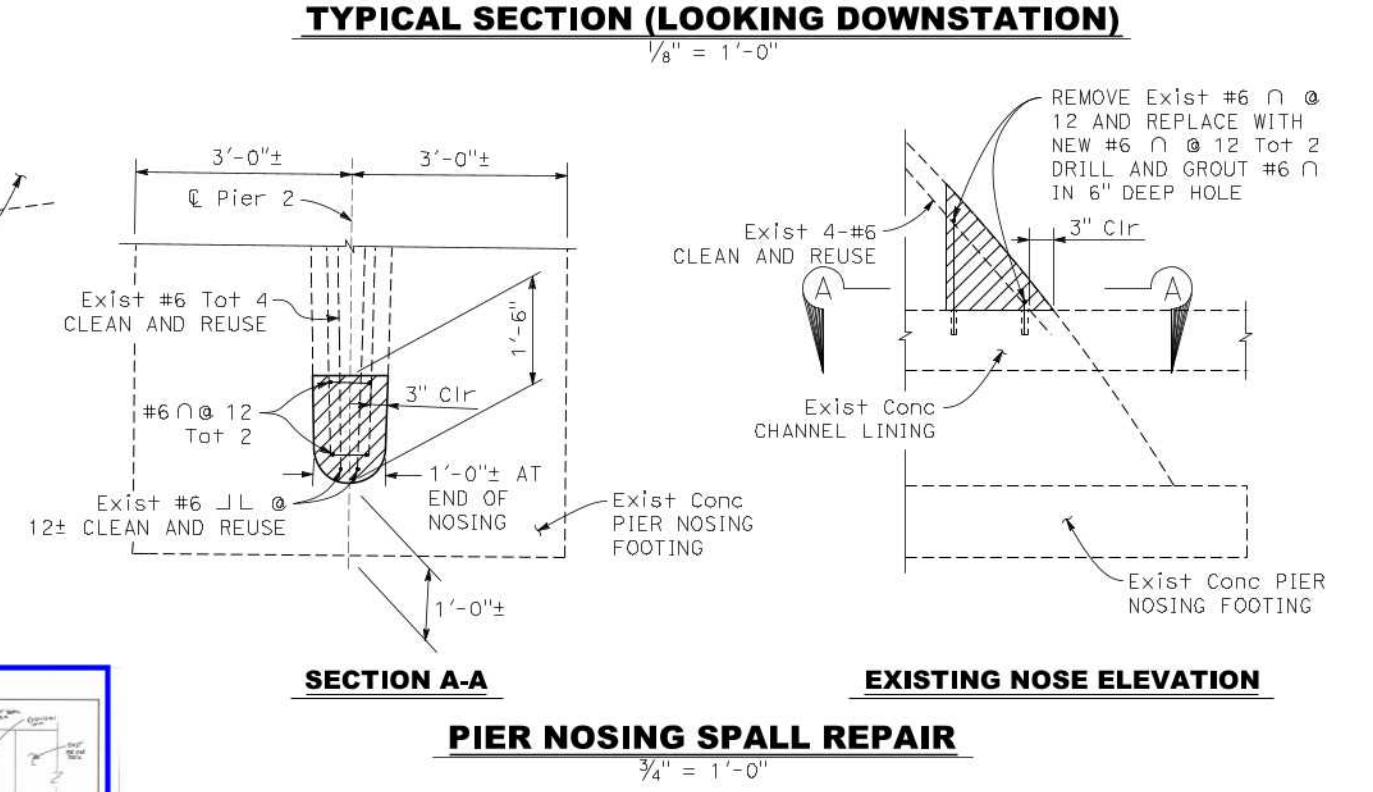
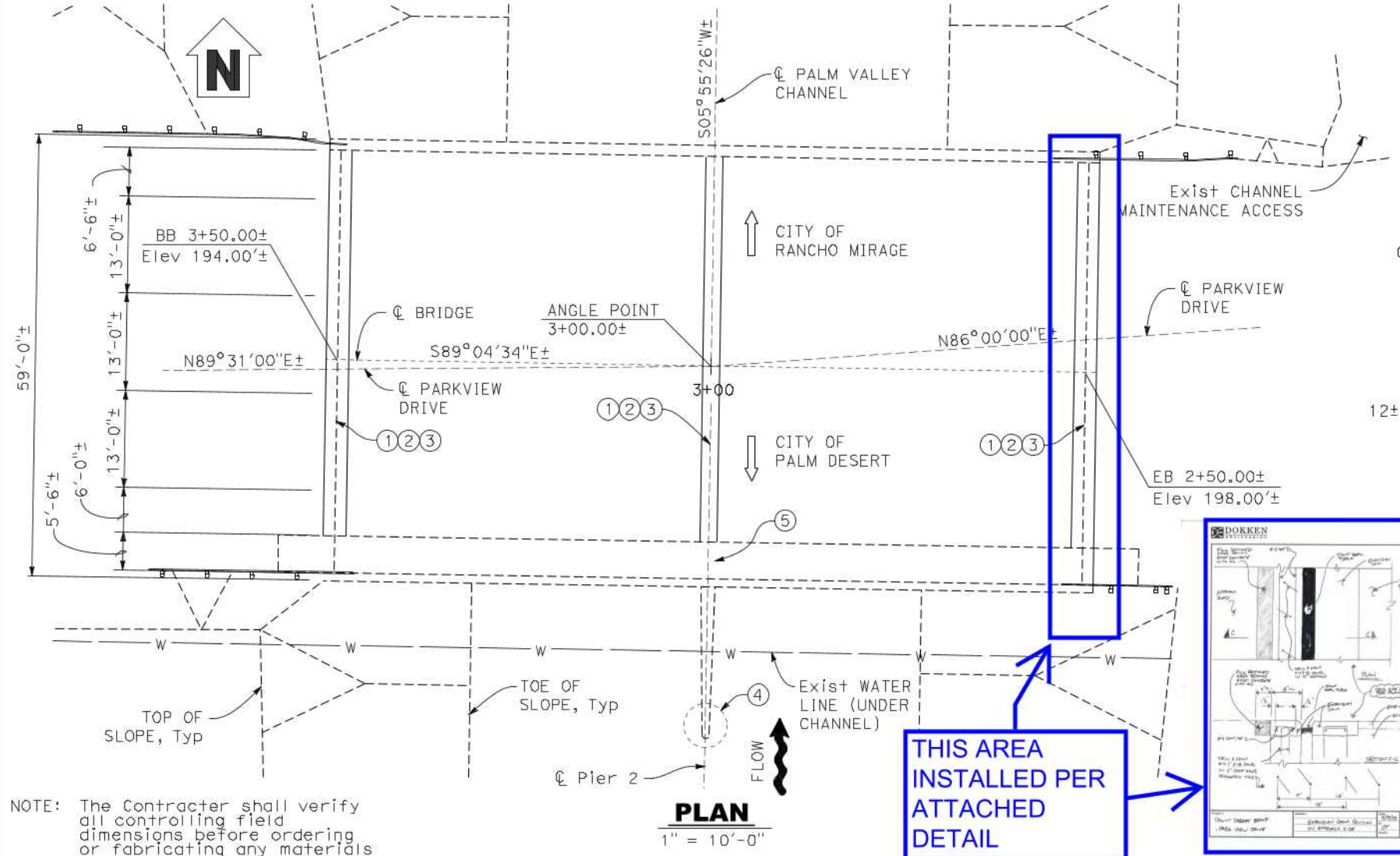
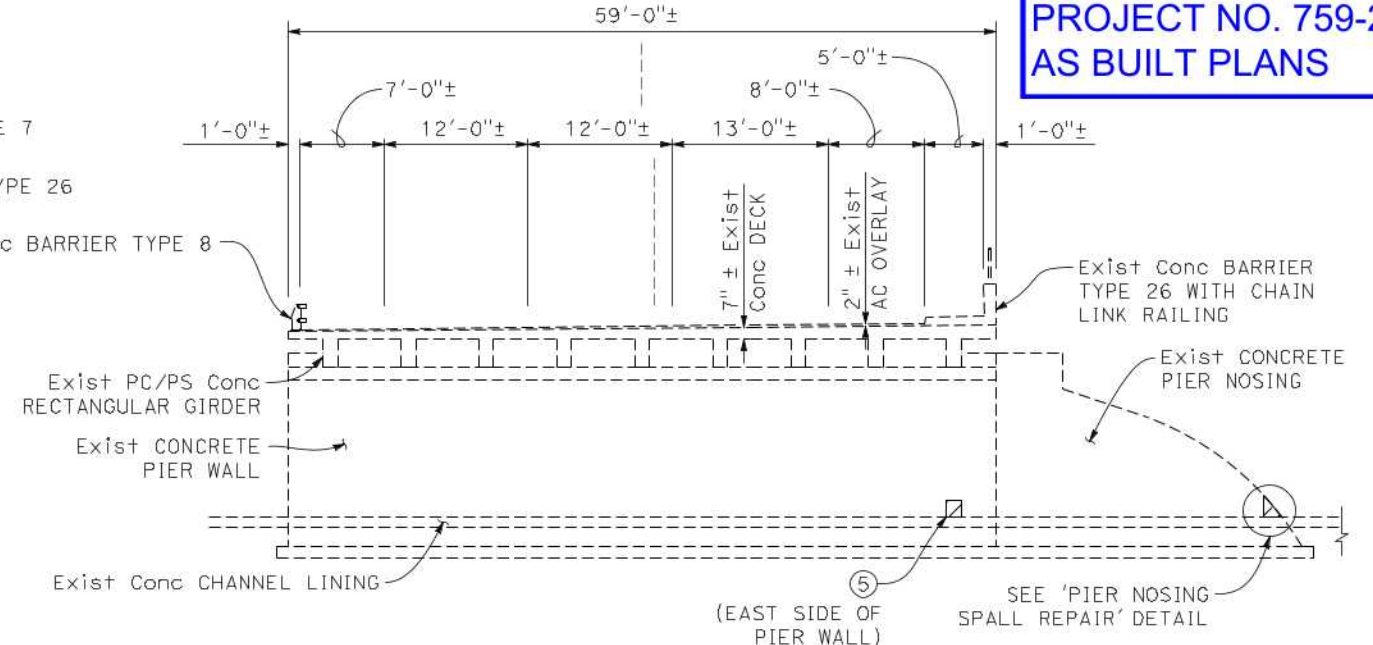
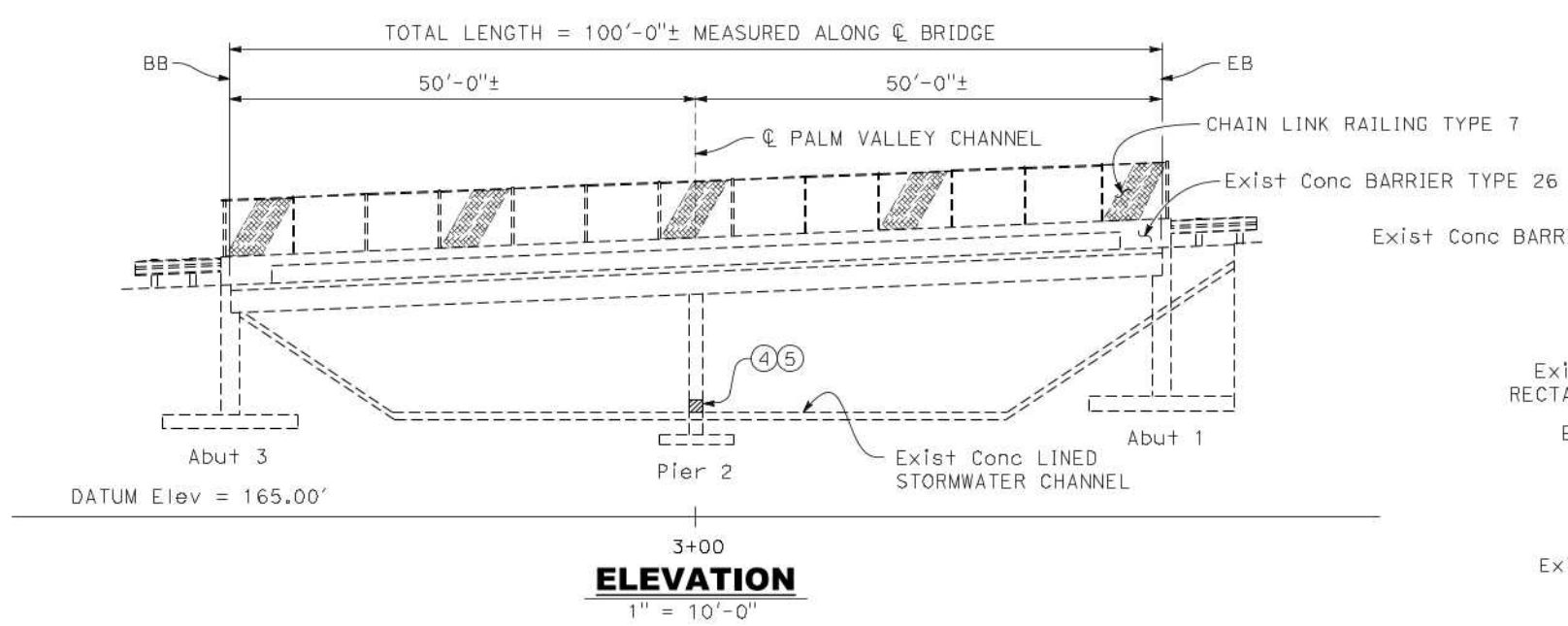
**DE DOKKEN ENGINEERING**  
1450 Firenze Road, Suite 100, San Diego, CA 92108  
PH: (619) 514-8377 FAX: (619) 514-8608  
PREPARED UNDER THE DIRECT SUPERVISION OF:  
*Charles Tornaci* DATE: 03/21/2023  
CHARLES G. TORNAZI, R.C.E. NO. 66058 EXP. 6/30/24

CITY OF PALM DESERT  
DEPARTMENT OF PUBLIC WORKS  
APPROVED BY: *[Signature]* DATE: 03/27/2023  
STEVEN LATINO, P.E.  
ACTING CITY ENGINEER  
R.C.E. 73430, EXP. 12/31/2024  
REVIEWED AND RECOMMENDED BY: DATE:



CITY OF PALM DESERT  
**2022-2023 BRIDGE PREVENTIVE MAINTENANCE**  
**Br. No. 56C-0327 THRUSS ROAD BRIDGE AT**  
**PALM VALLEY CHANNEL**  
**GENERAL PLAN SHEET**

SHEET	3
OF	8
CITY FILE NUMBER	



**PIER NOSING SPALL REPAIR**

**CONSTRUCTION NOTES:**

- ① Remove Exist AC.
  - ② Concrete Expansion Dam. See "MISCELLANEOUS DETAILS No.1" Sheet 5 of 8.
  - ③ Remove and Replace Existing Joint Seal (MR=1/2"). See "MISCELLANEOUS DETAILS No.1" Sheet 5 of 8.
  - ④ Remove Unsound Conc at Pier Nosing and Replace with Rapid Strength Concrete. See "PIER NOSING SPALL REPAIR" detail.
  - ⑤ Remove Unsound Conc at Pier Wall and Replace with Rapid Strength Concrete. See "MISCELLANEOUS DETAILS No.1" Sheet 5 of 8.
- Denotes limits of Concrete Removal and place Rapid Strength Concrete.

NOTE: The Contractor shall verify all controlling field dimensions before ordering or fabricating any materials



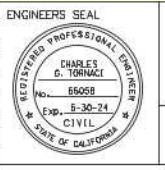
CITY OF RANCHO MIRAGE

APPROVED BY: (SHEETS 4 & 5)

*Leland E. Cole* 3-22-23

LELAND E. COLE  
CITY ENGINEER  
R.C.E. 47158, EXP. 12/31/2023

MARK	BY	DATE	REVISIONS	QTY	APPR	DATE



**DOKKEN ENGINEERING**

1490 Pfreizer Road, Suite 100, San Diego, CA 92108  
PH: (619) 514-8377 FAX: (619) 514-8608

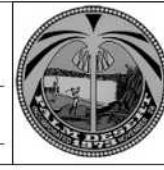
PREPARED UNDER THE DIRECT SUPERVISION OF:  
*Charles Tornace* DATE: 03/21/2023  
CHARLES G. TORNACE, R.C.E. NO. 86058 EXP. 6/30/24

CITY OF PALM DESERT  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: *Steven Lating* 03/27/2023

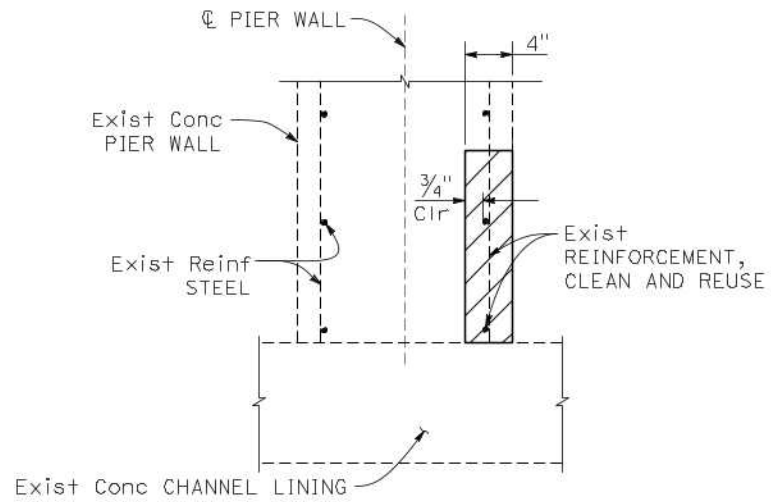
STEVEN LATING, P.E.  
ACTING CITY ENGINEER  
R.C.E. 73430, EXP. 12/31/2024

REVIEWED AND RECOMMENDED BY: DATE



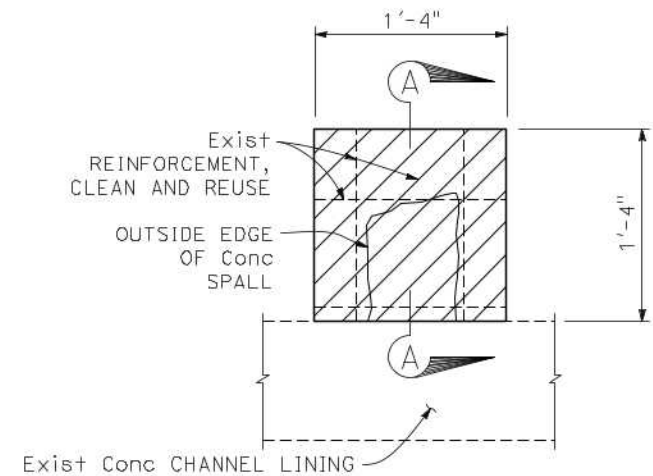
CITY OF PALM DESERT

**2022-2023 BRIDGE PREVENTIVE MAINTENANCE**  
**Br. No. 56C-0329 PARK VIEW DRIVE AT**  
**PALM VALLEY CHANNEL**  
**GENERAL PLAN SHEET**



**SECTION A-A**

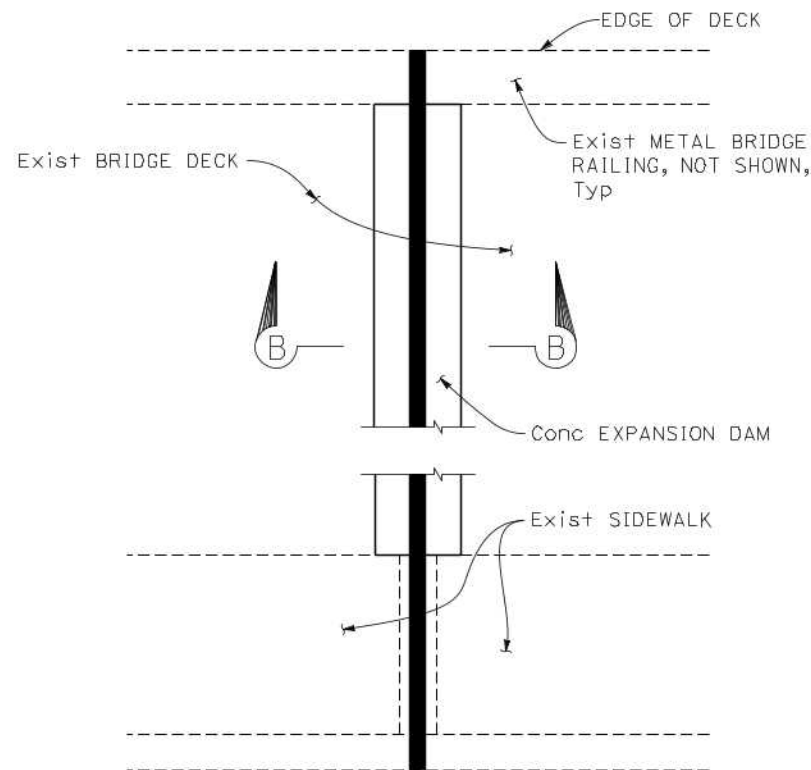
**ALL WORK INSTALLED PER PLAN**



**ELEVATION**

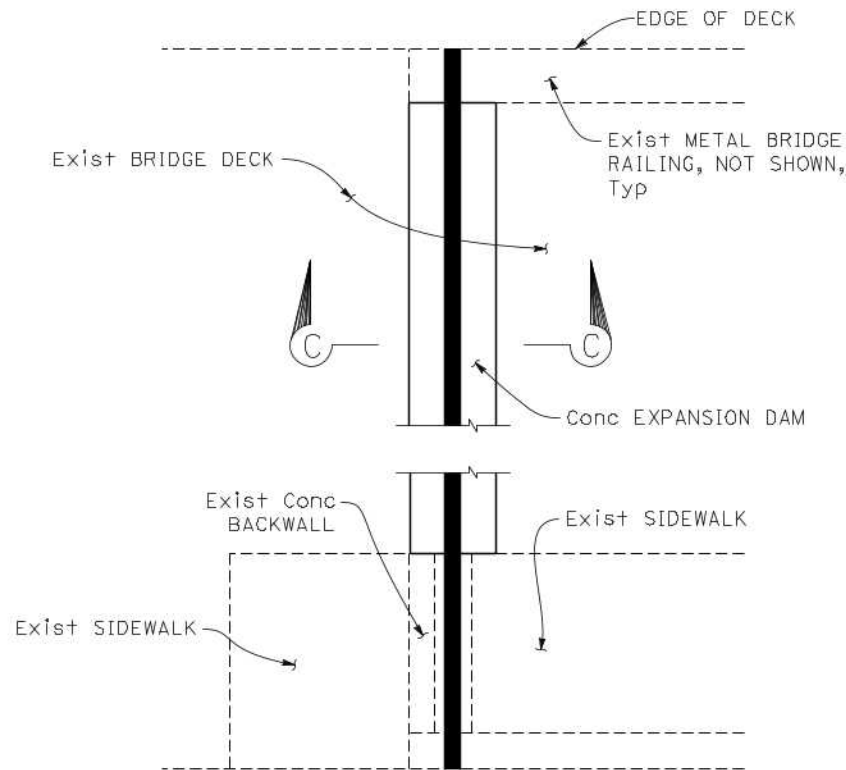
**PIER WALL SPALL REPAIR**

1/2" = 1'-0"



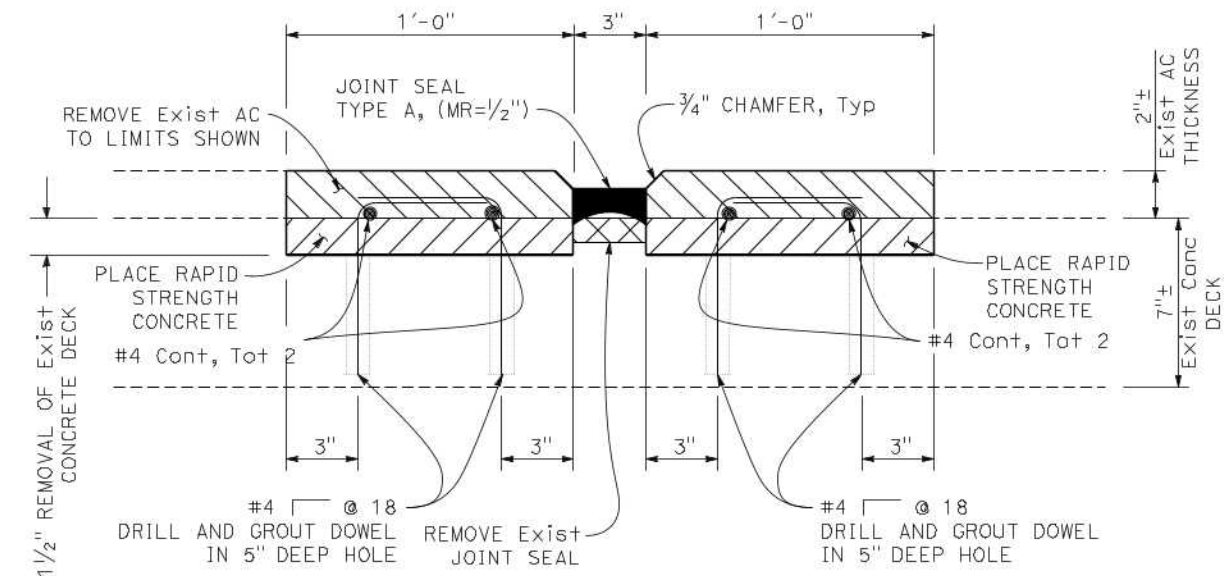
**PLAN - CONCRETE EXPANSION DAM AT PIER**

3/8" = 1'-0"



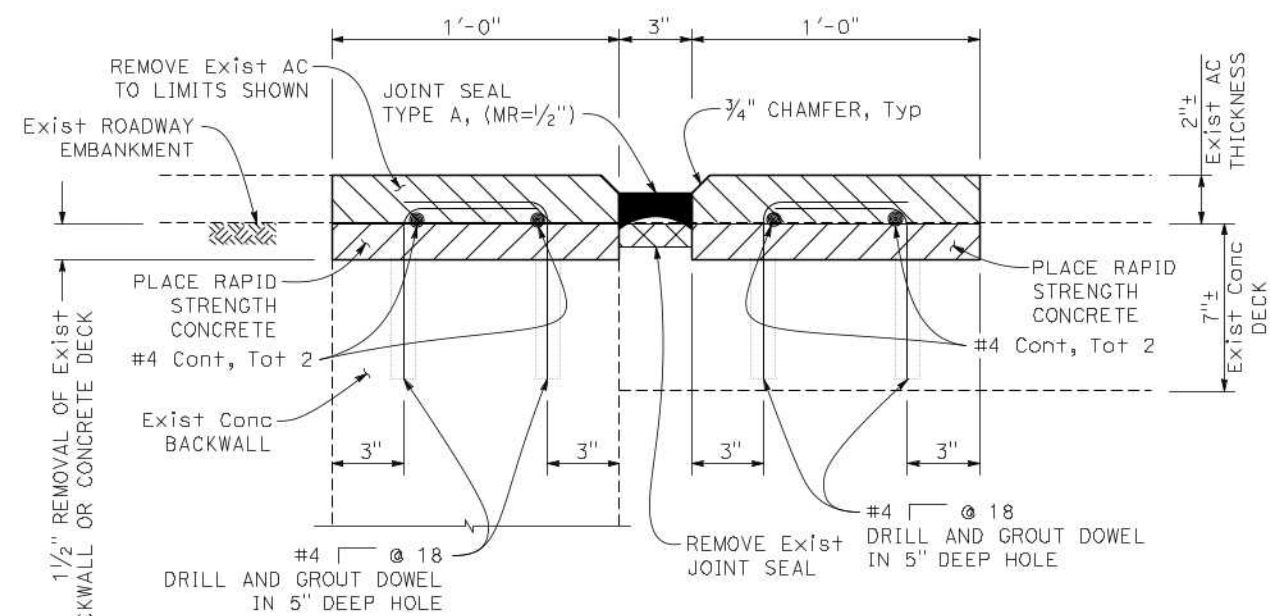
**PLAN - CONCRETE EXPANSION DAM AT ABUTMENTS**

3/8" = 1'-0"



**SECTION B-B**  
3" = 1'-0"

**2022-2023 BPMP  
PROJECT NO. 759-23  
AS BUILT PLANS**



**SECTION C-C**  
3" = 1'-0"

**CONSTRUCTION NOTES:**

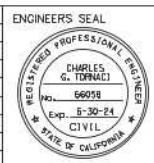
- Denotes Limits of Concrete Removal and place Rapid Strength Concrete
- Denotes Limits of AC Removal and place Rapid Strength Concrete

NOTE: The Contractor shall verify all controlling field dimensions before ordering or fabricating any materials



CITY OF RANCHO MIRAGE  
APPROVED BY: (SHEETS 4 & 5)  
*Leland E. Cole*  
LELAND E. COLE  
CITY ENGINEER  
R.C.E. 47159, EXP. 12/31/2023  
DATE: 3-22-23

MARK	BY	DATE	REVISIONS	QTY	APPR	DATE



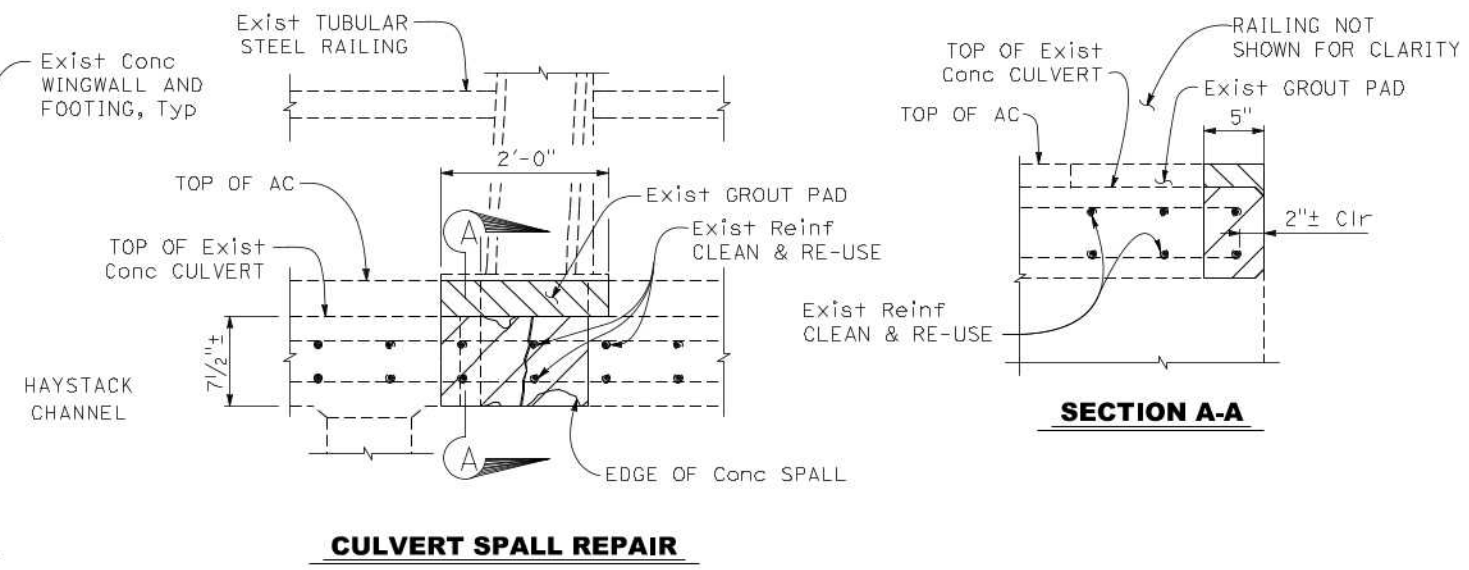
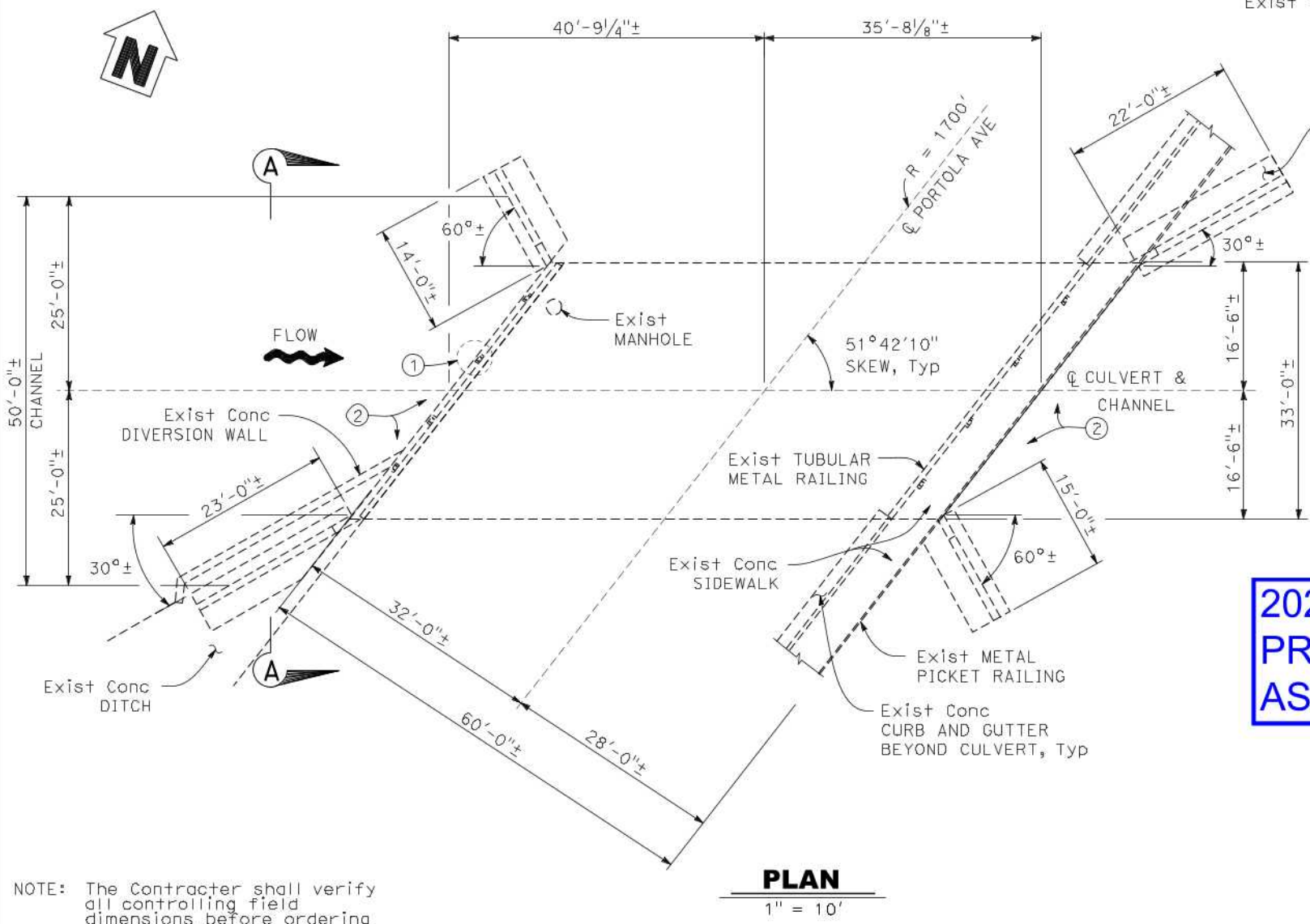
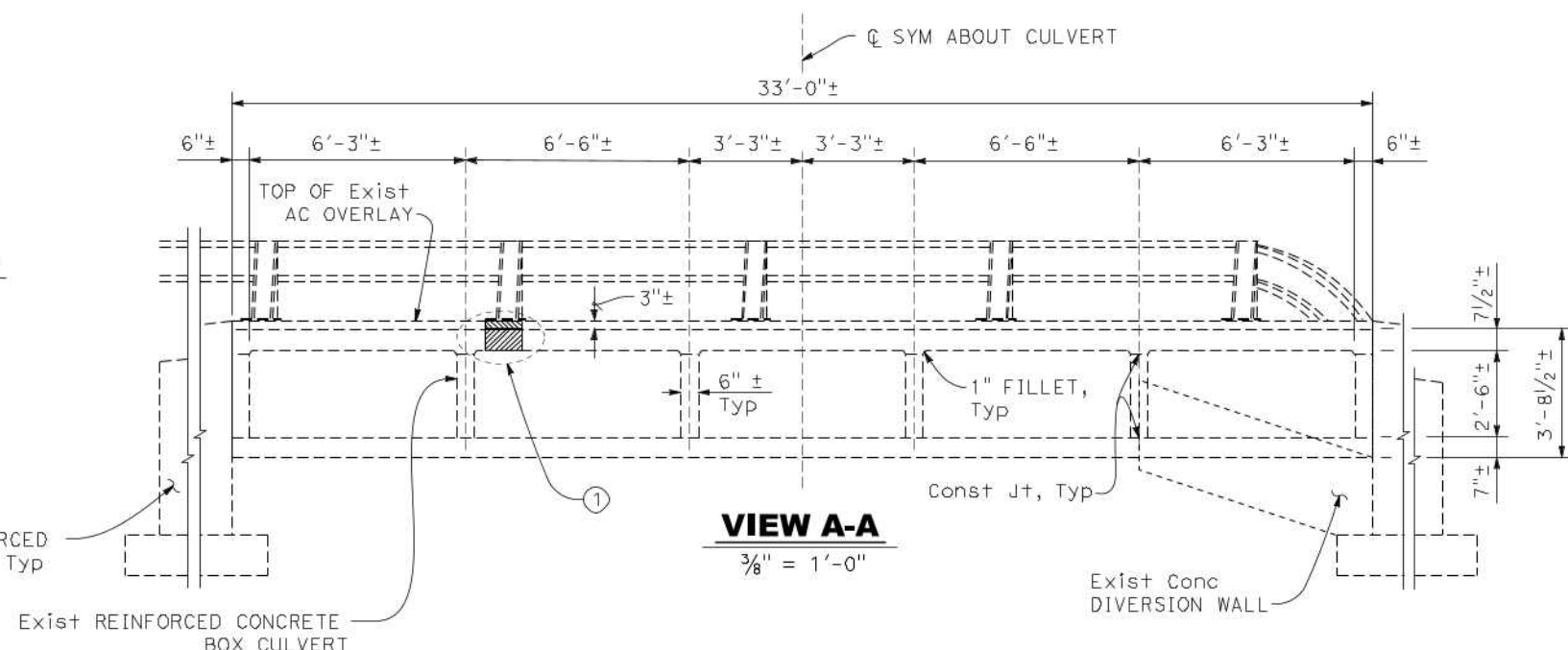
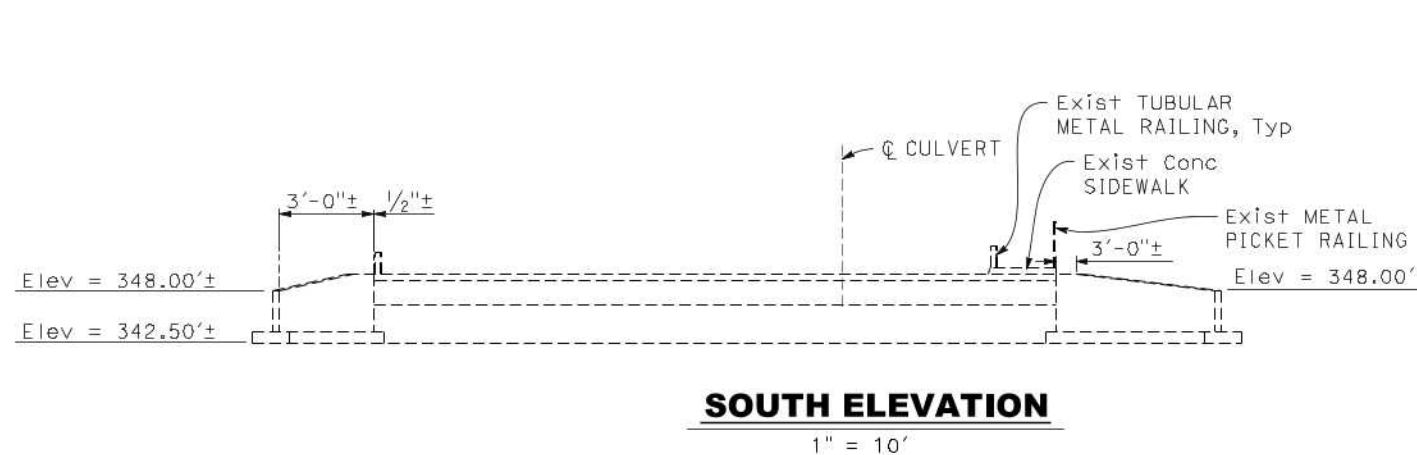
**DE DOKKEN ENGINEERING**  
1450 Firenze Road, Suite 100, San Diego, CA 92108  
PH: (619) 514-8377 FAX: (619) 514-8608  
PREPARED UNDER THE DIRECT SUPERVISION OF:  
*Charles Tornaki*  
DATE: 03/21/2023  
CHARLES G. TORNAKI, R.C.E. NO. 66058 EXP. 6/30/24

CITY OF PALM DESERT  
DEPARTMENT OF PUBLIC WORKS  
APPROVED BY: *Steven Latino*  
STEVEN LATINO, P.E.  
ACTING CITY ENGINEER  
R.C.E. 73430, EXP. 12/31/2024  
DATE: 03/27/2023  
REVIEWED AND RECOMMENDED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



CITY OF PALM DESERT  
**2022-2023 BRIDGE PREVENTIVE MAINTENANCE**  
**Br. No. 56C-0329 PARK VIEW DRIVE AT**  
**PALM VALLEY CHANNEL**  
**MISCELLANEOUS DETAILS NO. 1**

SHEET **5**  
OF  
SHEETS **8**  
CITY FILE NUMBER



**2022-2023 BPMP  
PROJECT NO. 759-23  
AS BUILT PLANS**

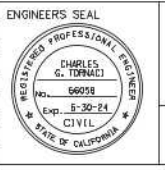
**CONSTRUCTION NOTES:**

- ① Remove Unsound Conc and Rebuild. See "DETAIL A"
- ② Remove and Dispose of Debris at Culvert ends
- Denotes Limits of Conc Removal and Replacement
- Denotes Limits of Grout Pad Removal and Replacement

NOTE: The Contractor shall verify all controlling field dimensions before ordering or fabricating any materials



ENGINEER			REVISIONS			QTY		
MARK	BY	DATE				APPR	DATE	



**DE DOKKEN ENGINEERING**  
1450 Firenze Road, Suite 100, San Diego, CA 92108  
PH: (360) 514-8377 FAX: (360) 514-8038

PREPARED UNDER THE DIRECT SUPERVISION OF:  
*Charles Tornadi* DATE: 03/21/2023  
CHARLES G. TORNA DI, R.C.E. NO. 66058 EXP. 6/30/24

CITY OF PALM DESERT  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: *[Signature]* DATE: 03/27/2023

STEVEN LATINO, P.E.  
ACTING CITY ENGINEER  
R.C.E. 73430, EXP. 12/31/2024

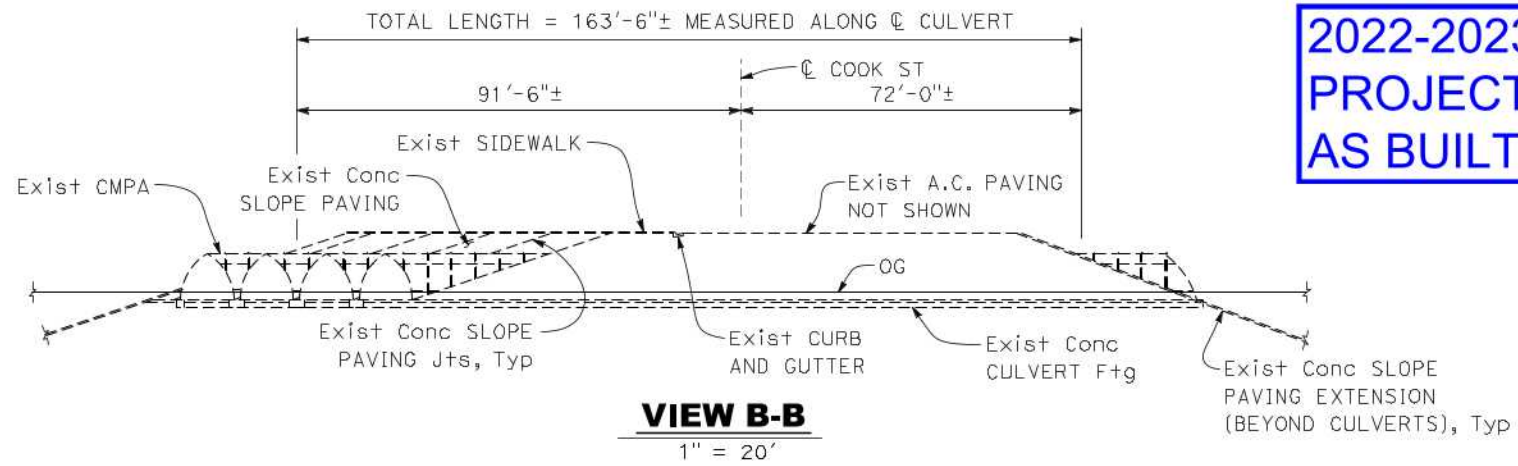
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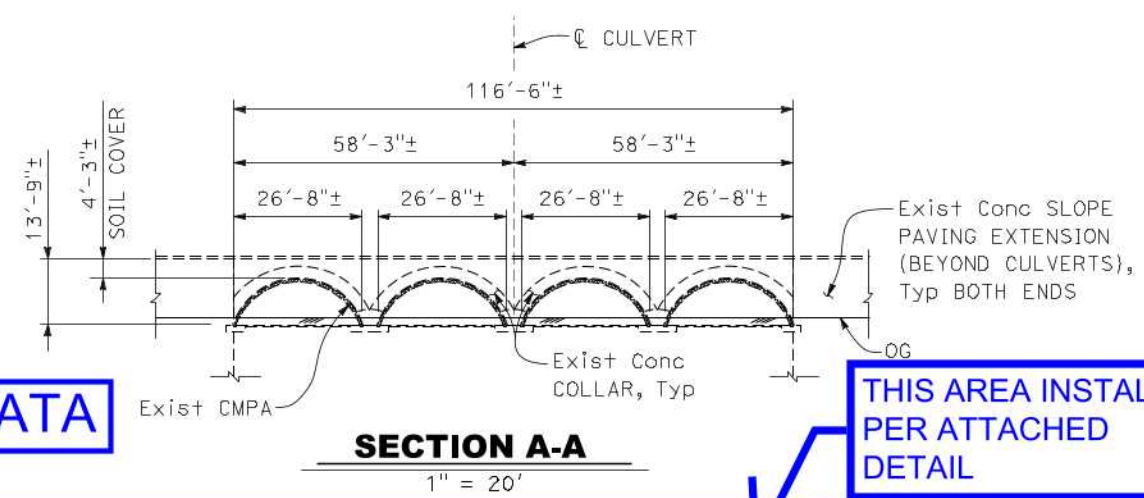
CITY OF PALM DESERT  
**2022-2023 BRIDGE PREVENTIVE MAINTENANCE**  
**Br. No. 56C-0347 PORTOLA AVE CULVERT AT**  
**HAYSTACK CHANNEL**  
**GENERAL PLAN SHEET**

SHEET **6**  
OF  
SHEETS **8**  
CITY FILE NUMBER

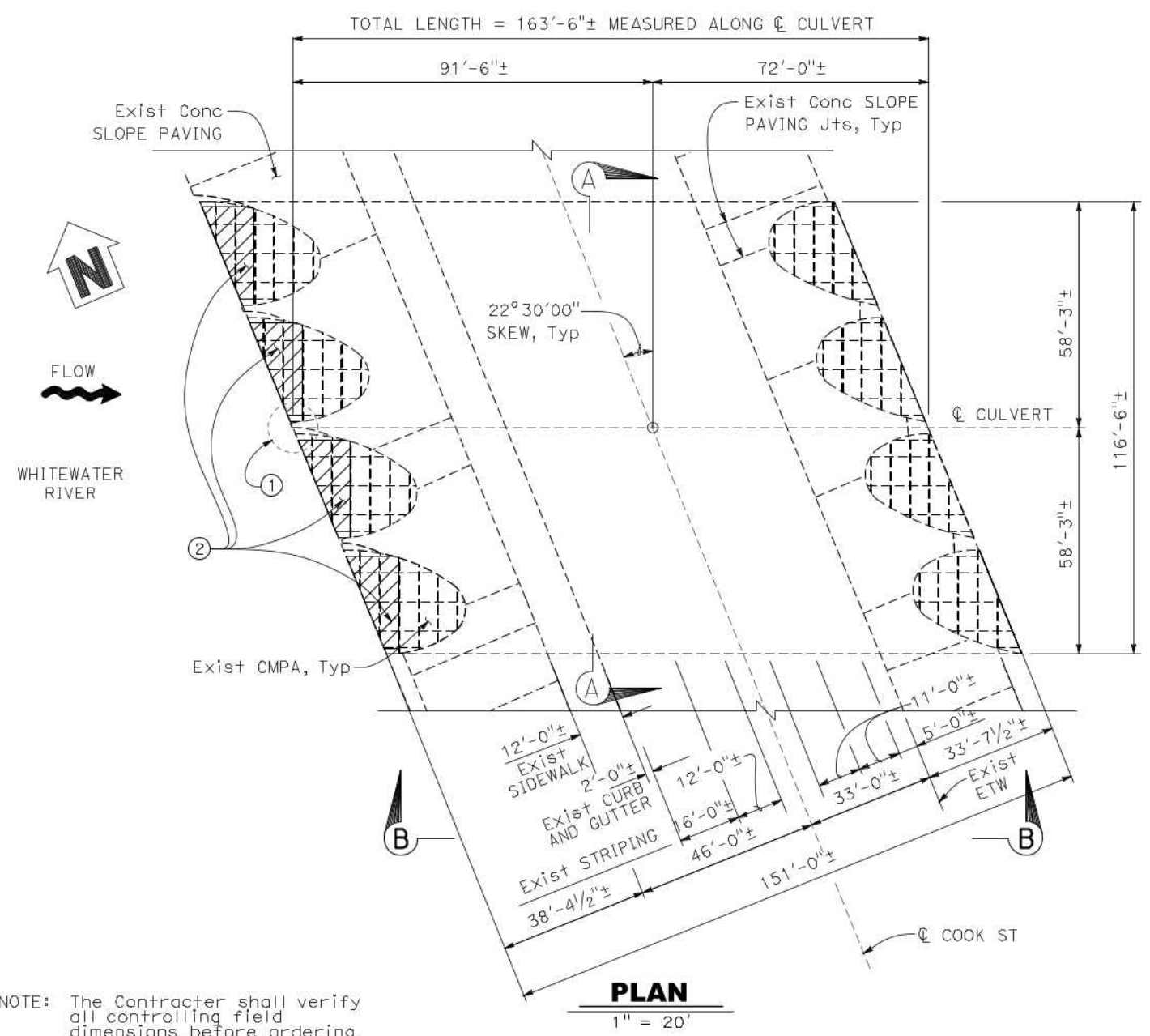
**2022-2023 BPMP  
PROJECT NO. 759-23  
AS BUILT PLANS**



**CMPA DATA**



**THIS AREA INSTALLED PER ATTACHED DETAIL**



**CMPA DATA**

12' x 5'-2 3/8"

← 7 HOLE PLATE 7 GAGE 226" RADIUS

12'-0" QTY 4 REQD

12' x 6'-0"

← 8 HOLE PLATE 7 GAGE 65" RADIUS

12'-0" QTY 1 REQD

12' x 6'-0"

← 8 HOLE PLATE 7 GAGE 226" RADIUS

12'-0" QTY 12 REQD

HOT-DIP GALVANIZED

**IMPORTANT**  
ASSEMBLY INSTRUCTIONS WILL BE SHIPPED WITH THE STRUCTURE. THEY ARE LOCATED IN THE BRIGHT COLORED BUCKET.

**IMPORTANT**  
WHEN BEGINNING ASSEMBLY, BE CERTAIN PLATES ARE ORIENTED SO BOLT HOLE PATTERN MATCHES THAT SHOWN ON THIS DRAWING AND ASSEMBLY INSTRUCTIONS.

**TORQUE NOTE**  
PLATE LAPS MUST BE PROPERLY MATED IN A TANGENT FASHION USING PROPER ALIGNMENT TECHNIQUES AND ADEQUATE BOLT TORQUE TO SEAT THE CORRUGATION. FOR PLAIN GALVANIZED PLATES, AN INSTALLATION BOLT TORQUE OF 100-300 FT-LBS IS RECOMMENDED. WHEN SEAM SEALANT TAPE OR ASPHALT (SHOP) COATED PLATES ARE USED, BOLTS SHALL BE INSTALLED AT 150-300 FT-LBS AND RETIGHTENED TO THESE LIMITS AFTER 4 TO 8 HOURS. TORQUE LEVELS ARE FOR INSTALLATION NOT RESOVAL IN-SERVICE REQUIREMENTS.

STEEL MULTI-PLATE  
CORRUGATION PROFILE

INLET	OUTLET	TYPE	STRUCTURE	REPAIR	PLATES
NO	NO	NO	NO	NO	NO

PLANT ORDER NO. 771153-010-MP-CON-A

SALES ORDER NO. 771153-010-027/2023

**CONTECH ENGINEERED SOLUTIONS LLC**  
www.contechES.com  
100 Tech Center Way, Palm Desert, CA 92260  
888-744-0228 954-992-6421

**CONTECH STRUCTURAL PLATE**

WHITWATER RIVER BRIDGE REPAIR AT COOK STREET  
PALM DESERT, CA

DATE: 03/27/2023

STEVEN LATINO, P.E. ACTING CITY ENGINEER R.C.E. 73430, EXP. 12/31/2024

REVIEWED AND RECOMMENDED BY:

- CONSTRUCTION NOTES:**
- ① Clean Debris from opening of Exist CMPA
  - ② Remove and Replace damaged CMPA Extension, See "MISCELLANEOUS DETAILS No. 1" Sheet 8 of 8.
- Denotes Remove damaged CMPA Extension and Replace with new 12ga CMPA

NOTE: The Contractor shall verify all controlling field dimensions before ordering or fabricating any materials

**DIGALERT**  
DIAL BEFORE YOU DIG  
TWO WORKING DAYS BEFORE YOU DIG  
TOLL FREE 1-800-227-2600  
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

MARK	BY	DATE	REVISIONS	QTY	APPR	DATE
△						

**ENGINEERS SEAL**  
CHARLES G. TORNADI  
No. 66058  
Exp. 6/30/24  
CIVIL  
STATE OF CALIFORNIA

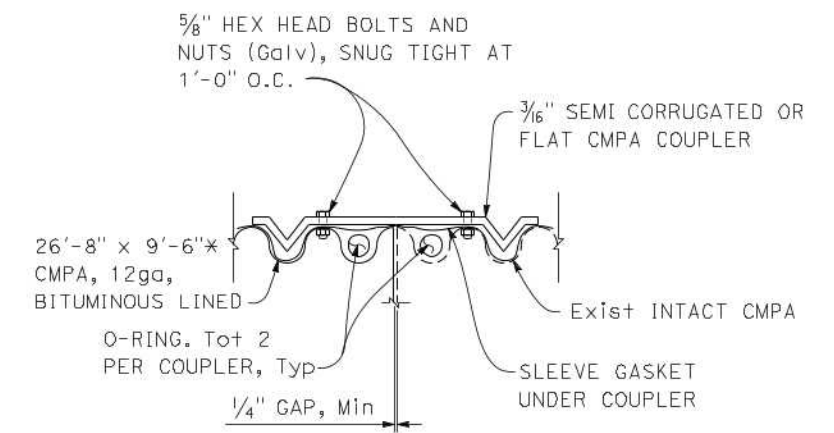
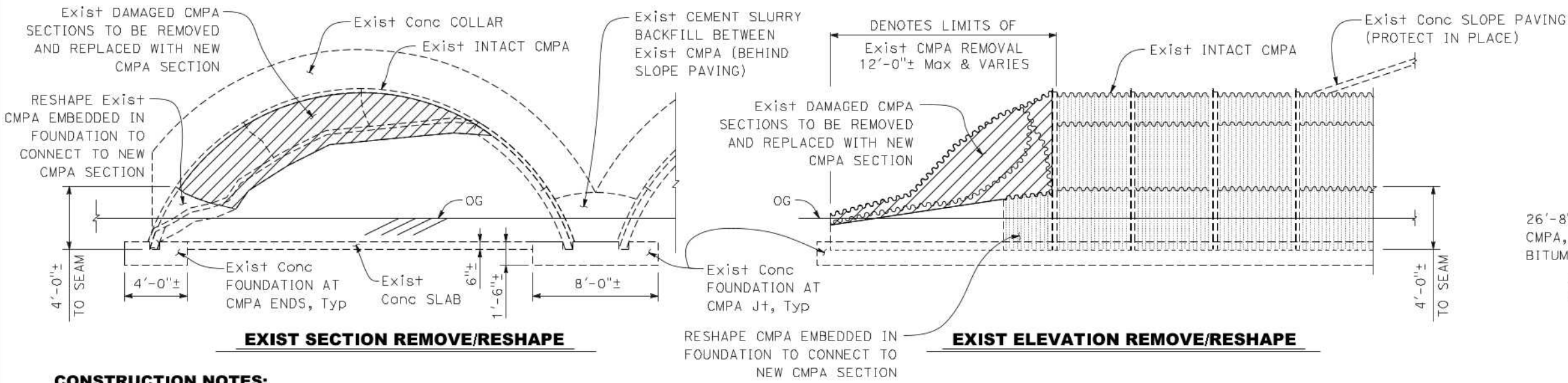
**DOKKEN ENGINEERING**  
1450 Firenze Road, Suite 100, San Diego, CA 92108  
PH: (360) 514-8377 FAX: (360) 514-8028  
PREPARED UNDER THE DIRECT SUPERVISION OF:  
Charles Tornadi  
DATE: 03/21/2023  
CHARLES G. TORNADI, R.C.E. NO. 66058 EXP. 6/30/24

CITY OF PALM DESERT  
DEPARTMENT OF PUBLIC WORKS  
APPROVED BY: [Signature]  
DATE: 03/27/2023  
STEVEN LATINO, P.E.  
ACTING CITY ENGINEER  
R.C.E. 73430, EXP. 12/31/2024  
REVIEWED AND RECOMMENDED BY: [Signature]  
DATE:



CITY OF PALM DESERT  
**2022-2023 BRIDGE PREVENTIVE MAINTENANCE**  
**Br. No. 56C-0494 COOK STREET AT**  
**WHITWATER RIVER BRIDGE**  
**GENERAL PLAN SHEET**

SHEET 7 OF 8 SHEETS  
QTY FILE NUMBER

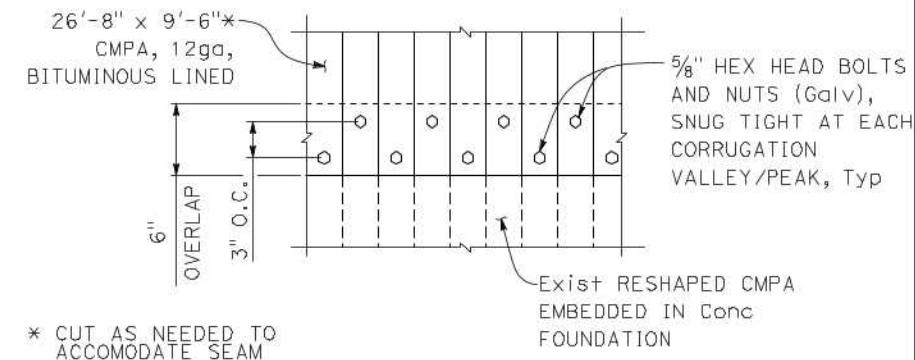
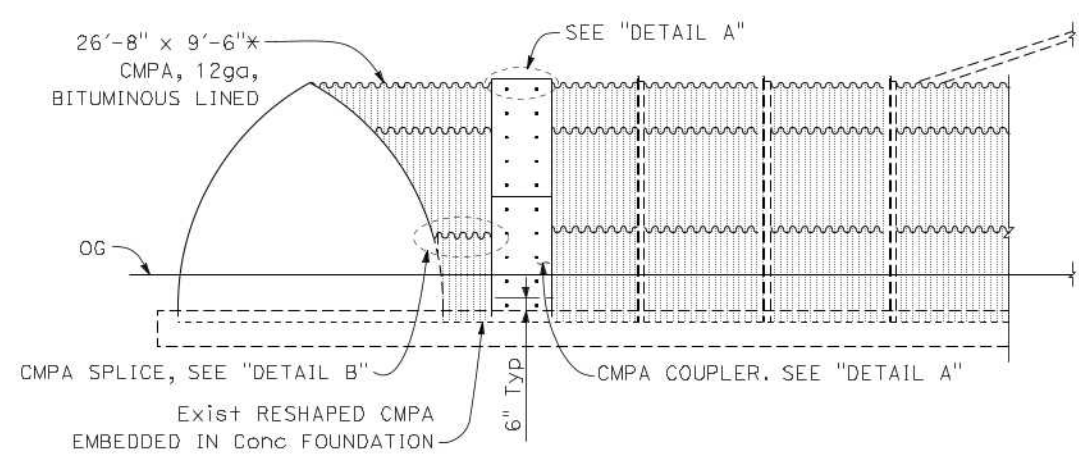
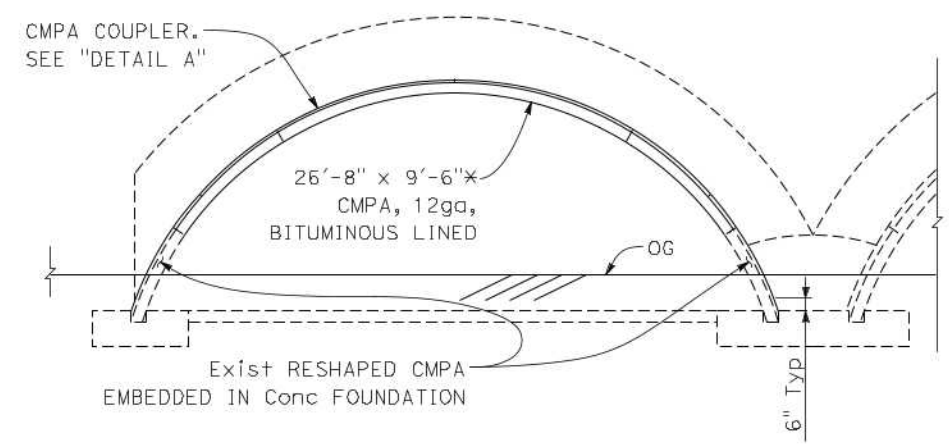


**CONSTRUCTION NOTES:**

Denotes Remove damaged CMPA Extension and Replace with new 12ga CMPA

**ALL WORK INSTALLED PER PLAN**

**2022-2023 BPMP  
PROJECT NO. 759-23  
AS BUILT PLANS**



**CULVERT REPLACE DETAIL**

1/4" = 1'-0"

**DETAIL B**

1/2" = 1'-0"

NOTE: Splice between Exist and new CMPA shown. Details similar for new CMPA to new CMPA splices.

NOTE: The Contractor shall verify all controlling field dimensions before ordering or fabricating any materials

<p>DIAL BEFORE YOU DIG TWO WORKING DAYS BEFORE YOU DIG TOLL FREE 1-800-227-2600 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT</p>	<table border="1"> <thead> <tr> <th>ENGINEER</th> <th>BY</th> <th>DATE</th> <th>REVISIONS</th> <th>QTY</th> <th>APPR</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>△</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	ENGINEER	BY	DATE	REVISIONS	QTY	APPR	DATE	△								<p>1450 Firenze Road, Suite 100, San Diego, CA 92108 PH: (352) 914-8377 FAX: (352) 914-9038 PREPARED UNDER THE DIRECT SUPERVISION OF: <i>Charles Tornaci</i> DATE: 03/21/2023 CHARLES G. TORNAZI, R.C.E. NO. 66058 EXP. 6/30/24</p>	<p>CITY OF PALM DESERT DEPARTMENT OF PUBLIC WORKS</p> <p>APPROVED BY: <i>[Signature]</i> DATE: 03/27/2023</p> <p>STEVEN LATINO, P.E. ACTING CITY ENGINEER R.C.E. 73430, EXP. 12/31/2024</p> <p>REVIEWED AND RECOMMENDED BY: _____ DATE: _____</p>		<p>CITY OF PALM DESERT <b>2022-2023 BRIDGE PREVENTIVE MAINTENANCE</b> <b>Br. No. 56C-0494 COOK STREET AT</b> <b>WHITWATER RIVER BRIDGE</b> <b>MISCELLANEOUS DETAILS NO. 1</b></p>	<p>SHEET 8 OF 8 SHEETS CITY FILE NUMBER</p>
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