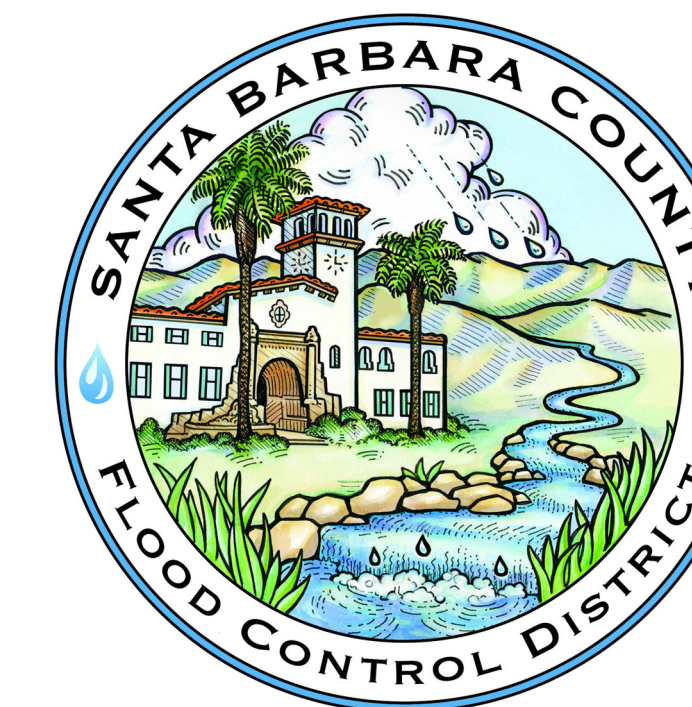


# SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

## CIENEGUITAS CHANNEL REPAIR PROJECT 24STM1-SC13

### IN THE UNINCORPORATED AREA OF SANTA BARBARA COUNTY, CALIFORNIA



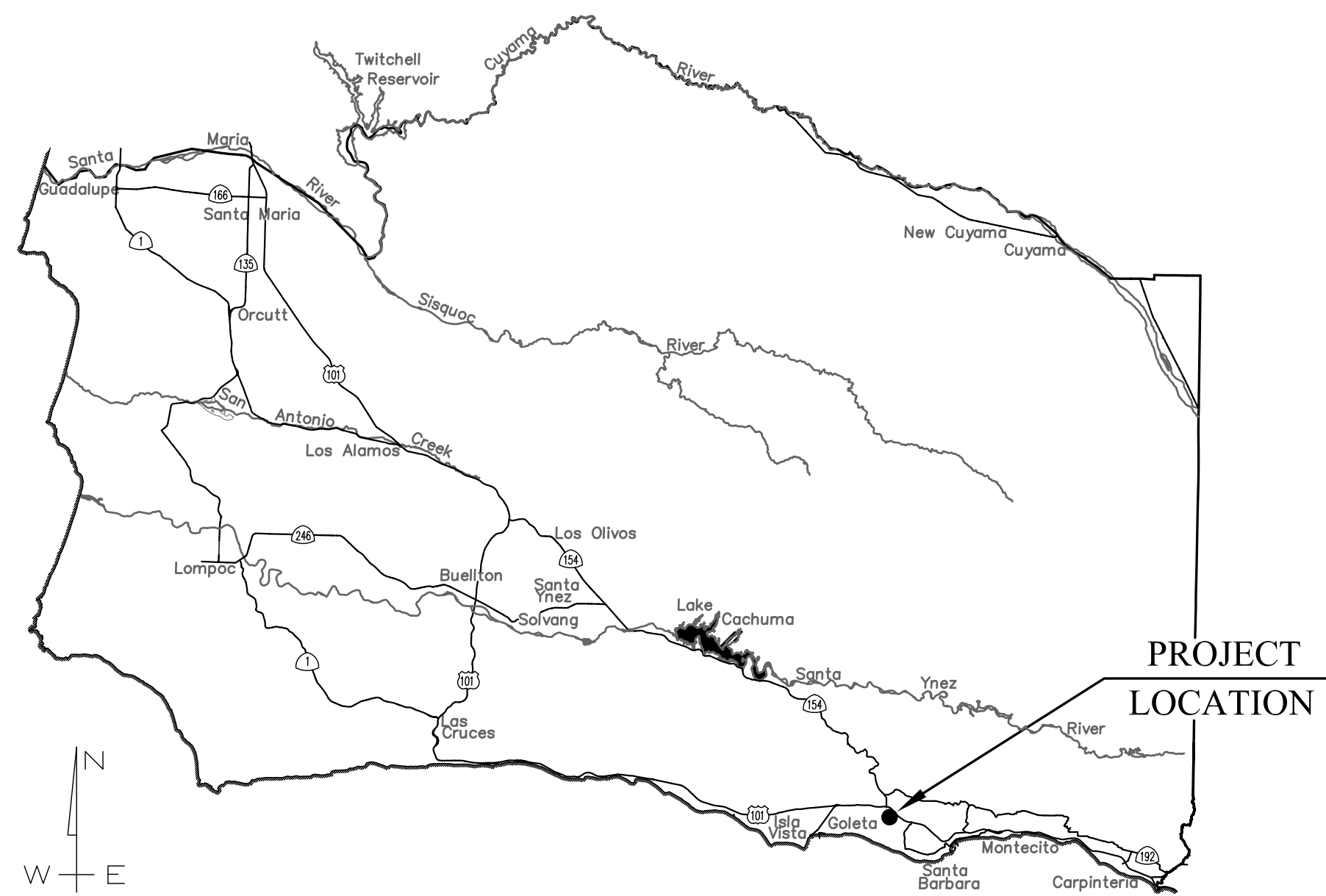
#### DISTRICT BOARD OF DIRECTORS

FIRST DISTRICT	Das Williams
SECOND DISTRICT	Laura Capps
THIRD DISTRICT	Joan Hartmann
FOURTH DISTRICT	Bob Nelson
FIFTH DISTRICT	Steve Lavagnino

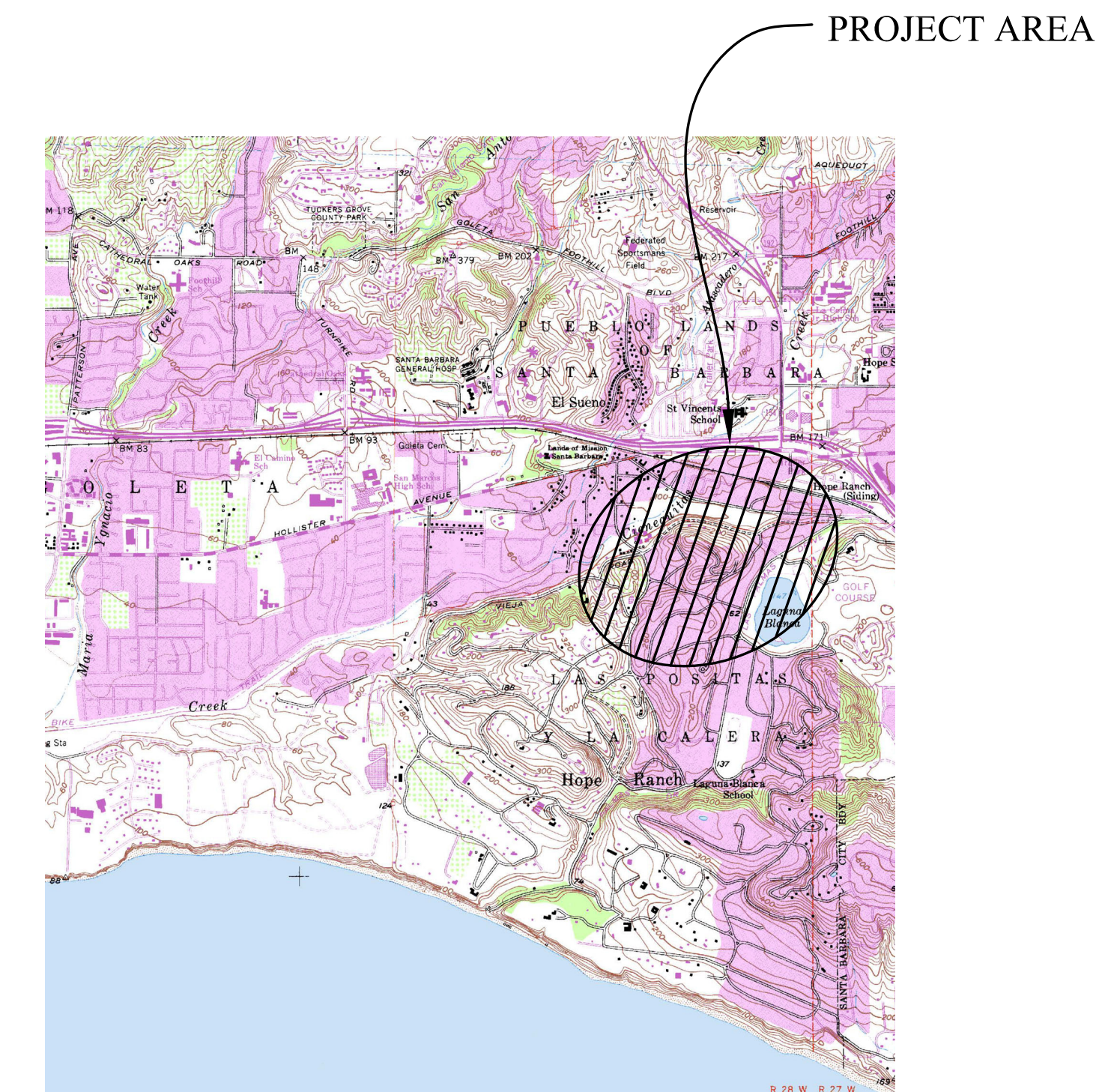
CHAIR, BOARD OF DIRECTORS \_\_\_\_\_  
Steve Lavagnino

#### INDEX TO SHEETS

<u>DESCRIPTION</u>	<u>SHEET NO.</u>
TITLE SHEET	1
GENERAL INFORMATION	2
PLAN & PROFILE	3
DETAILS	4
EXCAVATION & BACKFILL	5



VICINITY MAP  
No Scale



SITE MAP  
No Scale



UNAUTHORIZED CHANGES OR USES  
THE SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS  
EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR  
USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN  
WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT PRIOR TO IMPLEMENTATION  
OF ANY SUCH CHANGE OR USE.  
CONTRACTOR'S LICENSE  
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASS) OF LICENSE AS SPECIFIED  
IN THE "NOTICE" AND ASSUME FULL RESPONSIBILITY FOR THE SAME.

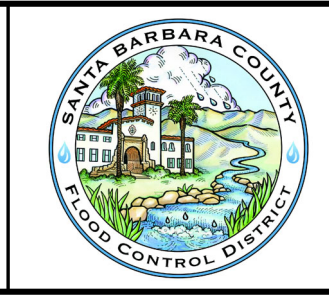
REVISIONS			
NO.	DESCRIPTION	DATE	APR



DESIGNED BY: <i>Erik Adelstein</i>	7/18/2024   9:46 AM PDT
FLOOD CONTROL DESIGN ENGINEER	DATE
REVIEWED BY: <i>Paul Griffin</i>	7/18/2024   10:36 AM PDT
FLOOD CONTROL ENGINEERING MANAGER	DATE
REVIEWED BY: <i>Ilhwa Robinson</i>	7/18/2024   9:46 AM PDT
FLOOD CONTROL DEPUTY DIRECTOR	DATE

REVIEWED BY: <i>Paul Ribicki</i>	7/18/2024   9:49 AM PDT
MAINTENANCE MANAGER	DATE
REVIEWED BY: <i>Ilhwa Robinson</i>	7/18/2024   3:54 PM PDT
ENVIRONMENTAL SERVICES MANAGER	DATE

SANTA BARBARA COUNTY  
FLOOD CONTROL AND  
WATER CONSERVATION DISTRICT  
130 E. VICTORIA STREET  
SANTA BARBARA, CA 93101  
(805) 568-3440



CIENEGUITAS CHANNEL  
REPAIR PROJECT  
UNINCORPORATED AREA  
SANTA BARBARA COUNTY, CALIFORNIA

TITLE SHEET

DESIGNED BY: EA	<b>O-1164</b>
DRAWN BY: OR/EA	
CHECKED BY: MG	
SHEET 1 OF 5	
Filename: Cienequitas Design.dwg	

**SYMBOL LEGEND**

CONTROL POINT		EX. ROCK		EX. TREE	
EX. CABLE TV BOX		EX. SEWER CLEANOUT		EX. TREE - EUCALYPTUS	
EX. CABLE TV VAULT		EX. SEWER MANHOLE		EX. TREE - LEMON	
EX. ELECTRIC BOX		EX. SIGNAGE		EX. TREE - PALM	
EX. ELECTRIC GUY WIRE		EX. STORM DRAIN GRATE		EX. TREE - PINE	
EX. ELECTRIC MANHOLE		EX. STORM DRAIN MANHOLE		EX. TREE - STUMP	
EX. ELECTRIC METER		EX. STRUCTURE BENCH		EX. TREE - SYCAMORE	
EX. FIRE HYDRANT		EX. STRUCTURE BOLLARD/POST		EX. TREE - WILLOW	
EX. GAS METER		EX. TELEPHONE BOX		EX. TREE - YUCCA	
EX. GAS VALVE		EX. TELEPHONE MANHOLE		EX. WATER METER	
EX. IRRIGATION SPRINKLER		EX. TELEPHONE POLE		EX. WATER SPIGOT	
EX. LUMINARY		EX. TELEPHONE VAULT		EX. WATER VALVE	
EX. MAILBOX		EX. BUSH/HEDGE		EX. WATER WELL	
EX. MONUMENT		EX. CACTUS			
EX. POWER & TELEPHONE POLE		EX. SHRUB			

**LINETYPE LEGEND**

BOUNDARY EASEMENT LINE		EX. FLOWLINE	
BOUNDARY RIGHT OF WAY LINE		EX. GAS	
BOUNDARY PROPERTY LINE		EX. GUARDRAIL	
CENTERLINE		EX. SEWER	
CONTOUR LINE-MAJOR		EX. SIDEWALK	
CONTOUR LINE-MINOR		EX. STORM DRAIN	
EX. AC EDGE OF PAVEMENT		EX. STRUCTURE CONCRETE	
EX. BARBED WIRE FENCE		EX. STRUCTURE WALL	
EX. BRUSH		EX. TELEPHONE	
EX. BUILDING		EX. WATER	
EX. CABLE TV		EX. WOOD RAIL FENCE	
EX. CHAINLINK FENCE		PROPOSED FACILITIES	
EX. DRAINAGE		PROPOSED STORM DRAIN	
EX. ELECTRIC		RETAINING WALL GUTTER	
EX. ELECTRIC OVERHEAD		TEMP. CONSTRUCTION FENCE	
EX. FACILITIES			

**EXISTING UTILITY INFORMATION**

ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS, AND ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN. NOTE THAT INDIVIDUAL SERVICE LATERALS AND CONNECTIONS ARE NOT PLOTTED ON THE PROFILE.

THE SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS INFORMATION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION @ 1-800-422-4133.

**UTILITY DISPOSITION NOTE SYMBOLS:**

- FACILITIES TO BE REMOVED BY OTHERS
- FACILITIES TO BE RE-LOCATED BY OTHERS TO A LOCATION IN CLOSE PROXIMITY TO THE WORK. NEW FACILITY TO BE PROTECTED IN PLACE BY THE CONTRACTOR.
- FACILITIES TO BE RELOCATED BY CONTRACTOR
- PROTECT EXISTING UTILITY IN PLACE. EXACT HORIZONTAL AND VERTICAL LOCATION UNKNOWN
- ABANDONED UTILITY IN PLACE. INTERFERING PORTIONS TO BE REMOVED BY CONTRACTORS

**STANDARD DETAILS AND PLANS LIST**

STANDARD NO.	DESCRIPTION
<b>STATE DEPARTMENT OF TRANSPORTATION STANDARD PLANS (2018 EDITION)</b>	
The Standard Plan sheets applicable to this contract include, but are not limited to those indicated below. The Revised Standard Plans (RSP) and New Standard Plans (NSP) which apply are attached to the contract.	
A3A-A3C	ABBREVIATIONS
A10A-A10E	LEGEND - LINES AND SYMBOLS
P20	JOINT SEALS
B01-B03	BRIDGE DETAILS

**HORIZONTAL AND VERTICAL CONTROL**

**Surveyor's Notes:**  
Horizontal positions for points CP8, CP100, CP101, originated from file S-715 project from sbco surveyors office 02/2009. Site control was set by RTK with base on CP100, and site control points set and stored as 102, 103, 104, 106. Points set were then traversed through using Trimble S-6 holding CP102 as benchmark for horizontal and vertical position. conventional control was stored as 203, 204, 206 on same points. 207 and 208 were resection method points from 102-206 and no point set.

Elevations (orthometric heights) were derived by GPS-RTK observation holding CP102 fixed based on the North American Vertical Datum 1988 (NAVD88) using the National Geodetic Survey's program GEOID 12B.

Points CP102, CP203, CP204, CP206, were traversed thru conventionally.

All coordinate values shown are grid values. All distances are based on the U.S. Survey Foot (one survey foot = 1200/3937 meters).

**Contour Interval:**  
The contour interval is shown at 1 foot intervals with majors at every 5 feet

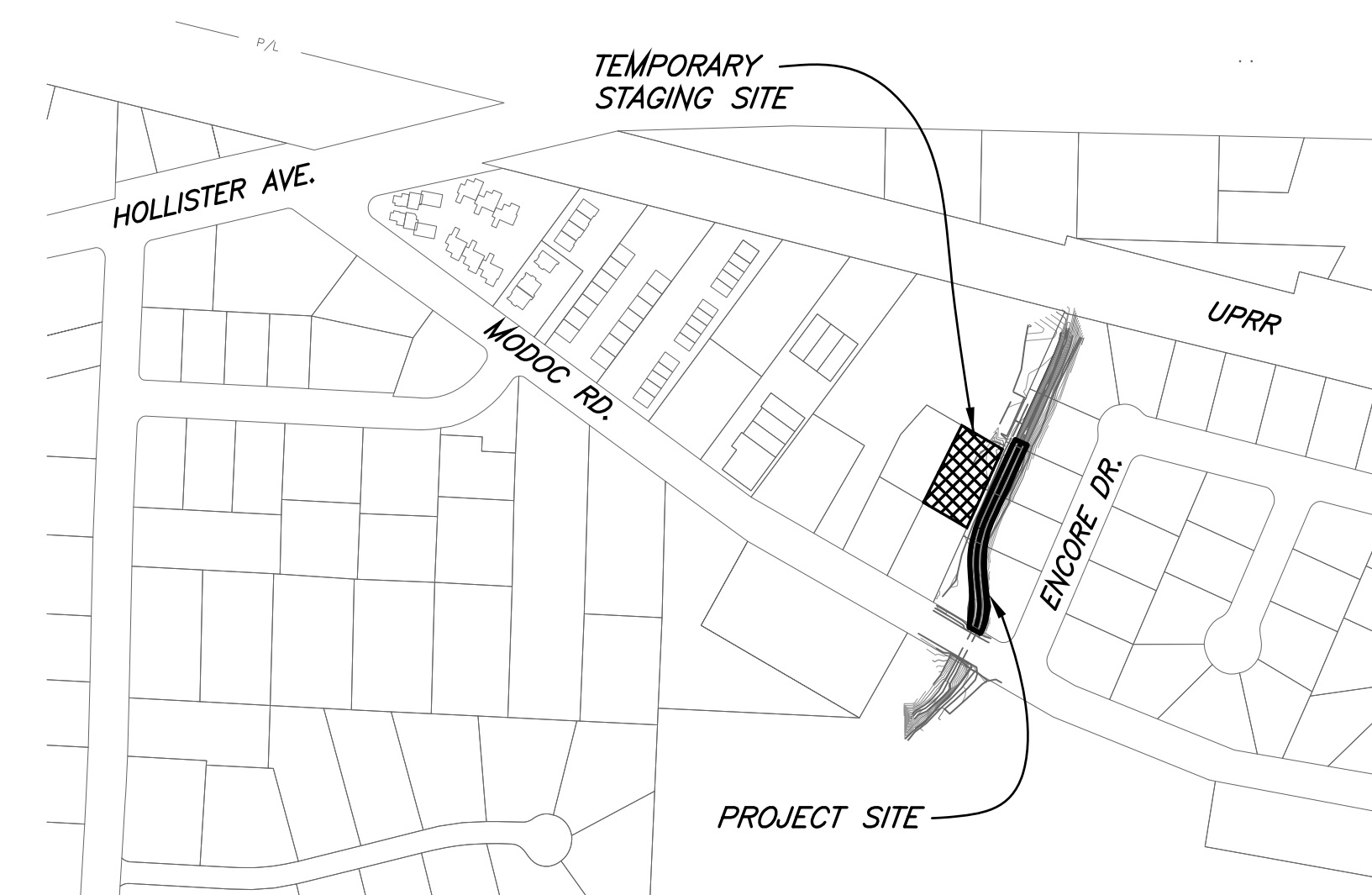
**Basis of Bearings:**  
The site Basis of Bearings is between CP206 and CP102, Calculated as: S23°33'10"W, 303.79'  
Measured as: S23°33'13"W, 303.82'

**CONTROL POINT TABLE**

CONTROL POINT#	NORTHING	EASTING	ELEVATION	DESCRIPTION	RECORD
CP8	1987299.30	6031045.26	165.14	FOUND SCRIBED X IN SW	COUNTY SURVEYOR OFFICE FIELD NOTES PROJECT S-715
CP100	1986658.50	6024486.50	48.26	FOUND 1 1/2" BRASS CAP STAMPED "SANTA BARBARA COUNTY SURVEYOR CONTROL PT"	COUNTY SURVEYOR OFFICE FIELD NOTES PROJECT S-715
CP101	1987266.65	6031281.64	167.26	FOUND 1 1/2" BRASS CAP STAMPED "SANTA BARBARA COUNTY SURVEYOR CONTROL PT"	COUNTY SURVEYOR OFFICE FIELD NOTES PROJECT S-715
CP102	1986600.89	6028973.06	107.45	SET SCRIBED X IN SW	CIENEGUITAS TOPO 2024-04-01
CP203	1986536.20	6028974.24	107.15	SET SPIKE & CHASER IN DIRT	CIENEGUITAS TOPO 2024-04-01
CP204	1986489.61	6029052.27	107.2	SET MAG NAIL IN BIKEWAY	CIENEGUITAS TOPO 2024-04-01
CP206	1986879.35	6029094.44	111.14	SET SPIKE & CHASER IN DIRT	CIENEGUITAS TOPO 2024-04-01
CP207				NOTHING SET	
CP208				NOTHING SET	

**ABBREVIATIONS**

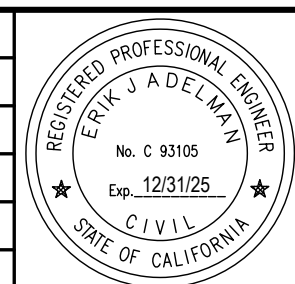
APN	ASSESSORS PARCEL NUMBER	IN	INCH
APWA	AMERICAN PUBLIC WORKS ASSOC.	MJ	MECHANICAL JOINT
AT	ARCHITECTURAL TEXTURE	n	MANNING'S COEFFICIENT
BW	BOTH WAYS	N	NORTH OR NORTHING
CFS	CUBIC FEET PER SECOND	OC	ON CENTER
CL or C/L	CENTER LINE	PK	PK NAIL
CALTRANS	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	Q	FLOW VELOCITY
COUNTY	COUNTY OF SANTA BARBARA	R1	RECORD PER BOOK NN, PAGE NN OF MAPS
CP	CONTROL POINT	S	SEWER OR SLOPE OR SOUTH
DI	DUCTILE IRON OR DROP INLET	SDMH	STORM DRAIN MANHOLE
DW	DRIVEWAY	SH	SHINER
E	EAST OR EASTING	SPK	SPIKE
EG	EXISTING GROUND	S/W	SIDEWALK
EGL	ENERGY GRADE LINE	TW or tw	TOP OF WALL
EL	ELEVATION	TCE	TEMPORARY CONSTRUCTION EASEMENT
EP	EDGE OF PAVEMENT	TBM	TEMPORARY BENCH MARK
ELEC	ELECTRIC	TSW	TOP OF SIDEWALK
FD	FOUND	TP	TOP OF PAVEMENT
FT	FEET	W or WL	WATER LINE
G	GAS LINE	WF	WALL FACE
GB	GRADE BREAK	WWF	WELDED WIRE FABRIC
HDP	HIGH DENSITY POLYETHYLENE	V	VELOCITY
HGL	HYDRAULIC GRADE LINE	VB	VALVE BOX
IP	IRON PIPE		



**VICINITY MAP**

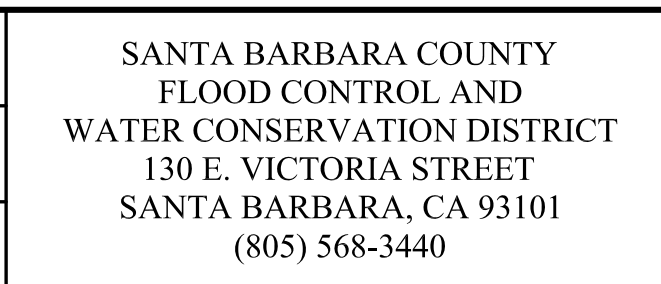
UNAUTHORIZED CHANGES OR USES: THE SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT PRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.

REVISIONS			
NO.	DESCRIPTION	DATE	APR



DESIGNED BY:	7/18/2024
<i>Erik Adelman</i>	DATE
FLOOD CONTROL DESIGN ENGINEER	

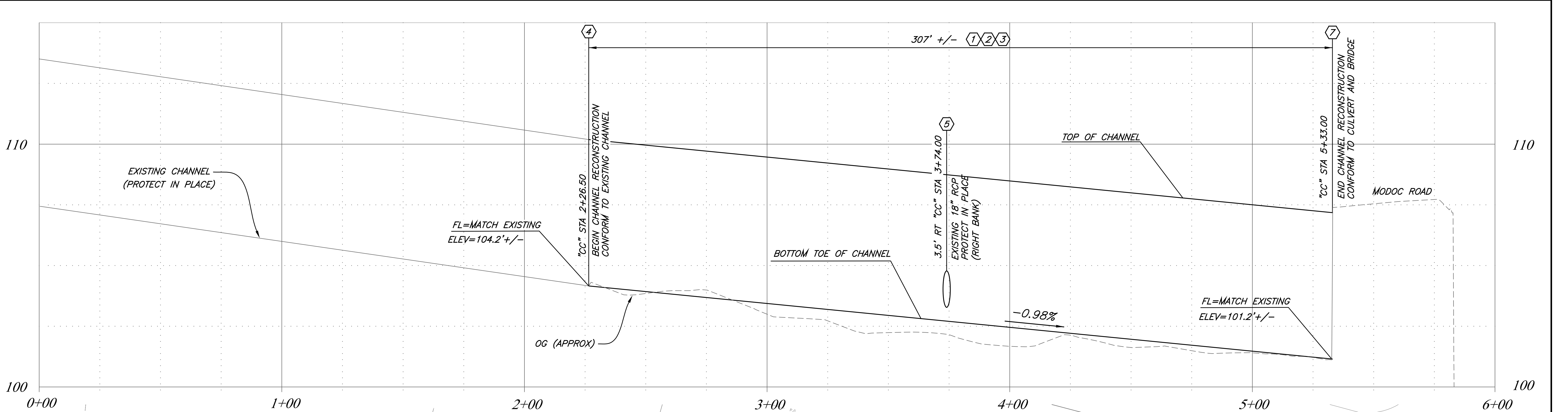
SANTA BARBARA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT 130 E. VICTORIA STREET SANTA BARBARA, CA 93101 (805) 568-3440
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CIENEGUITAS CHANNEL REPAIR PROJECT UNINCORPORATED AREA SANTA BARBARA COUNTY, CALIFORNIA
--------------------------------------------------------------------------------------------------

DESIGNED BY: EA
DRAWN BY: EA
CHECKED BY: MG

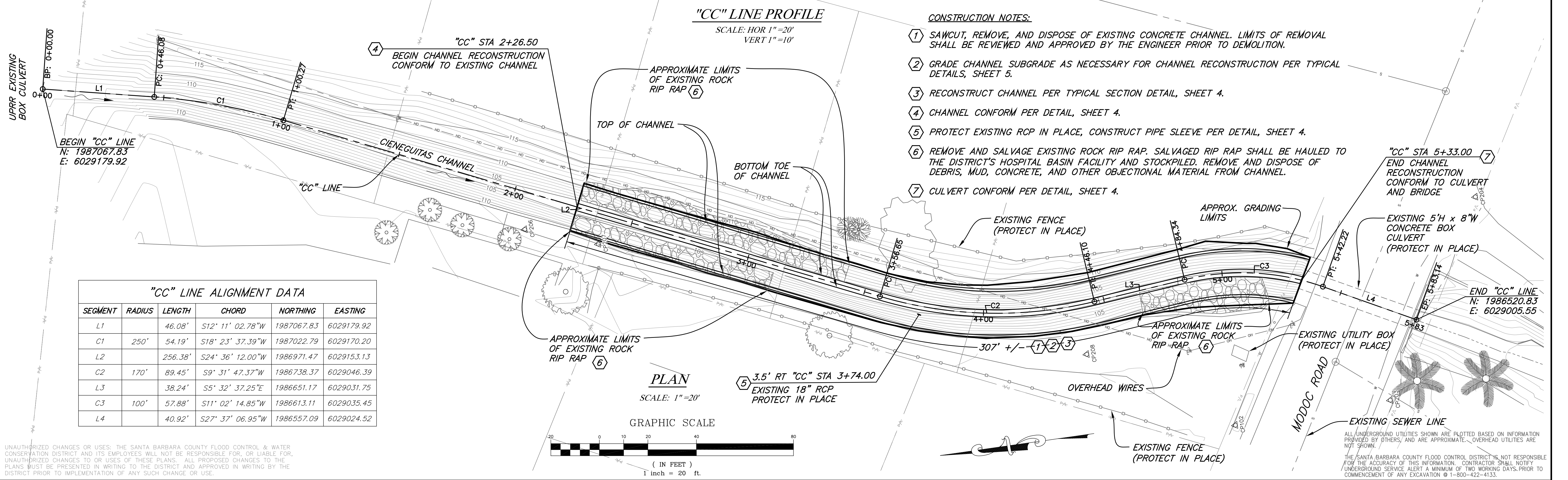
<b>O-1164</b>
SHEET 2 OF 5
Filename: Cieneguitas Design.dwg



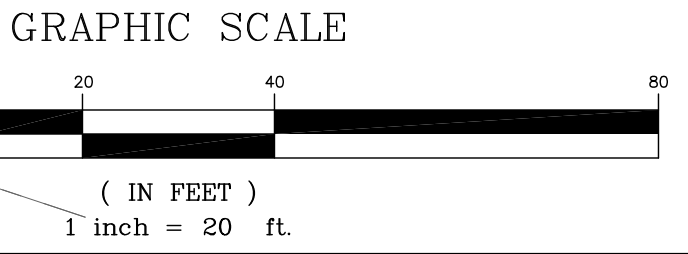
**"CC" LINE PROFILE**  
SCALE: HOR 1"=20'  
VERT 1"=10'

**CONSTRUCTION NOTES:**

- 1 SAWCUT, REMOVE, AND DISPOSE OF EXISTING CONCRETE CHANNEL. LIMITS OF REMOVAL SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO DEMOLITION.
- 2 GRADE CHANNEL SUBGRADE AS NECESSARY FOR CHANNEL RECONSTRUCTION PER TYPICAL DETAILS, SHEET 5.
- 3 RECONSTRUCT CHANNEL PER TYPICAL SECTION DETAIL, SHEET 4.
- 4 CHANNEL CONFORM PER DETAIL, SHEET 4.
- 5 PROTECT EXISTING RCP IN PLACE, CONSTRUCT PIPE SLEEVE PER DETAIL, SHEET 4.
- 6 REMOVE AND SALVAGE EXISTING ROCK RIP RAP. SALVAGED RIP RAP SHALL BE HAULED TO THE DISTRICT'S HOSPITAL BASIN FACILITY AND STOCKPILED. REMOVE AND DISPOSE OF DEBRIS, MUD, CONCRETE, AND OTHER OBJECTIONAL MATERIAL FROM CHANNEL.
- 7 CULVERT CONFORM PER DETAIL, SHEET 4.



**PLAN**  
SCALE: 1"=20'



**"CC" LINE ALIGNMENT DATA**

SEGMENT	RADIUS	LENGTH	CHORD	NORTHING	EASTING
L1		46.08'	S12° 11' 02.78"W	1987067.83	6029179.92
C1	250'	54.19'	S18° 23' 37.39"W	1987022.79	6029170.20
L2		256.38'	S24° 36' 12.00"W	1986971.47	6029153.13
C2	170'	89.45'	S9° 31' 47.37"W	1986738.37	6029046.39
L3		38.24'	S5° 32' 37.25"E	1986651.17	6029031.75
C3	100'	57.88'	S11° 02' 14.85"W	1986613.11	6029035.45
L4		40.92'	S27° 37' 06.95"W	1986557.09	6029024.52

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THE SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS INFORMATION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION @ 1-800-422-4133.

REVISIONS			
NO.	DESCRIPTION	DATE	APR



DESIGNED BY:  
*Erik Adelman*  
FLOOD CONTROL DESIGN ENGINEER  
7/18/2024  
DATE

SANTA BARBARA COUNTY  
FLOOD CONTROL AND  
WATER CONSERVATION DISTRICT  
130 E. VICTORIA STREET  
SANTA BARBARA, CA 93101  
(805) 568-3440

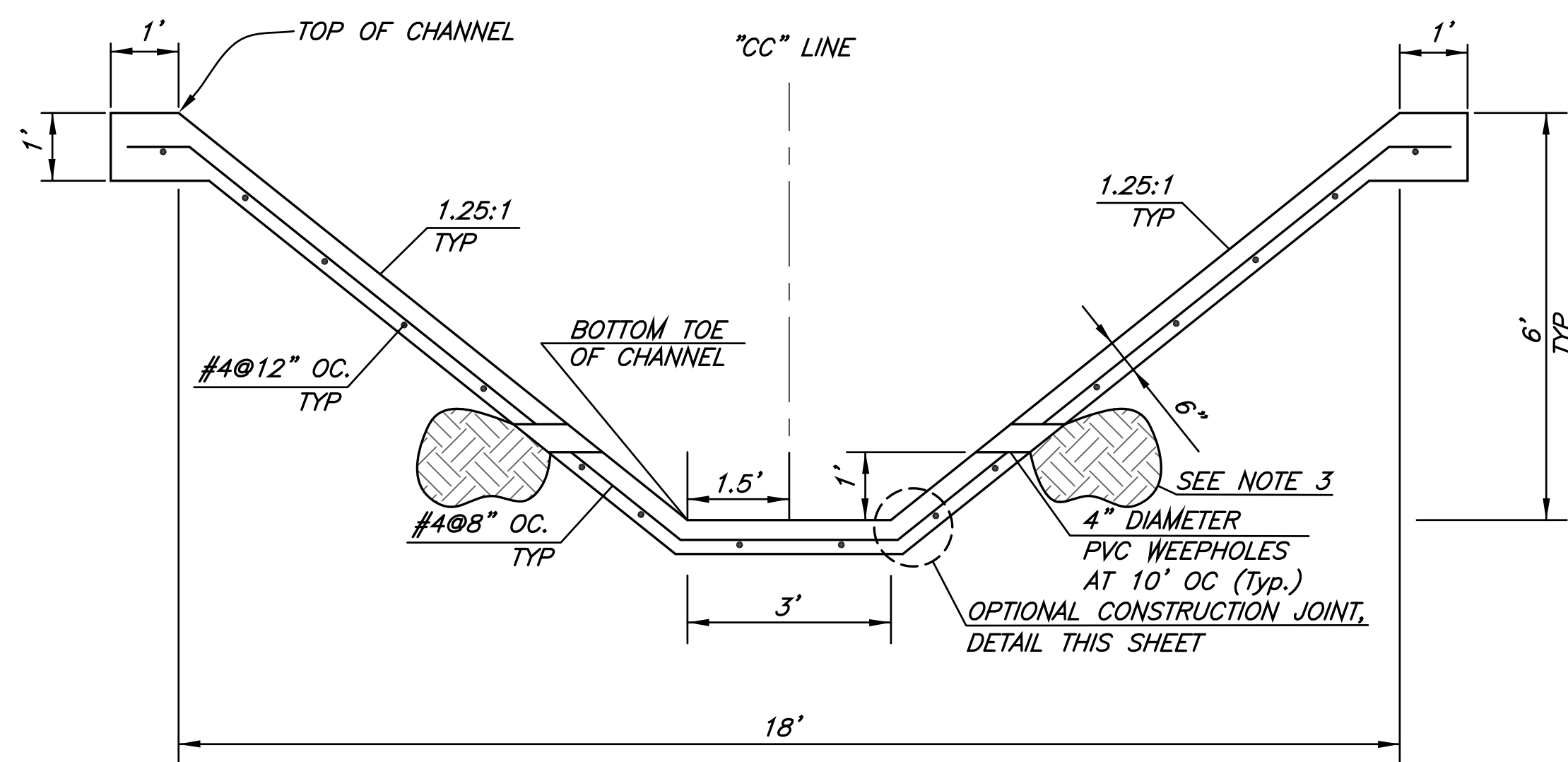


CIENEGUITAS CHANNEL  
REPAIR PROJECT  
UNINCORPORATED AREA  
SANTA BARBARA COUNTY, CALIFORNIA

**PLAN & PROFILE**

DESIGNED BY:  
EA  
DRAWN BY:  
EA  
CHECKED BY:  
MG

**O-1164**  
SHEET 3 OF 5  
Filename: Cieneguitas Design.dwg



**TYPICAL CROSS SECTION**  
SCALE: 1"=2'

**TYPICAL CHANNEL SECTION NOTES:**

1. REINFORCING STEEL SHALL BE PLACED WITH 2" MINIMUM CONCRETE CLEAR COVER EXCEPT WHERE CONCRETE IS PLACED AGAINST EARTH THE CONCRETE CLEAR COVER SHALL BE 3".
2. ALL LAP SPACE SHALL BE 15" MIN.
3. BACK WEEPHOLES ON BOTH SIDES OF CHANNEL WITH NO. 4 GALVANIZED SCREEN AND 1 CUBIC FOOT OF CLASS 1 PERMEABLE MATERIAL, TYPE A, IN FILTER FABRIC. PROVIDE CONTINUOUS GRAVEL DRAIN BETWEEN WEEPHOLES. PROVIDE FILTER FABRIC BETWEEN ALL GRAVEL MATERIAL AND SUBGRADE.
4. WEAKENED PLANE JOINTS (TRANSVERSE) SHALL BE PLACED AT 10' MIN AND 15' MAX SPACING PER DETAIL THIS SHEET. APPLIES TO INVERT AND SIDE SLOPES.
5. CONSTRUCTION JOINTS (TRANSVERSE) SHALL BE PLACED AT THE END OF EACH DAYS PLACEMENT OR WHENEVER PLACEMENT CEASES FOR MORE THAN 1 HOUR PER DETAIL THIS SHEET. REINFORCING STEEL TO BE PLACED CONTINUOUS THROUGH CONSTRUCTION JOINT.
6. EXPANSION JOINTS SHALL BE PLACED AT THE BEGINNING AND END OF CURVES, PER DETAIL THIS SHEET.

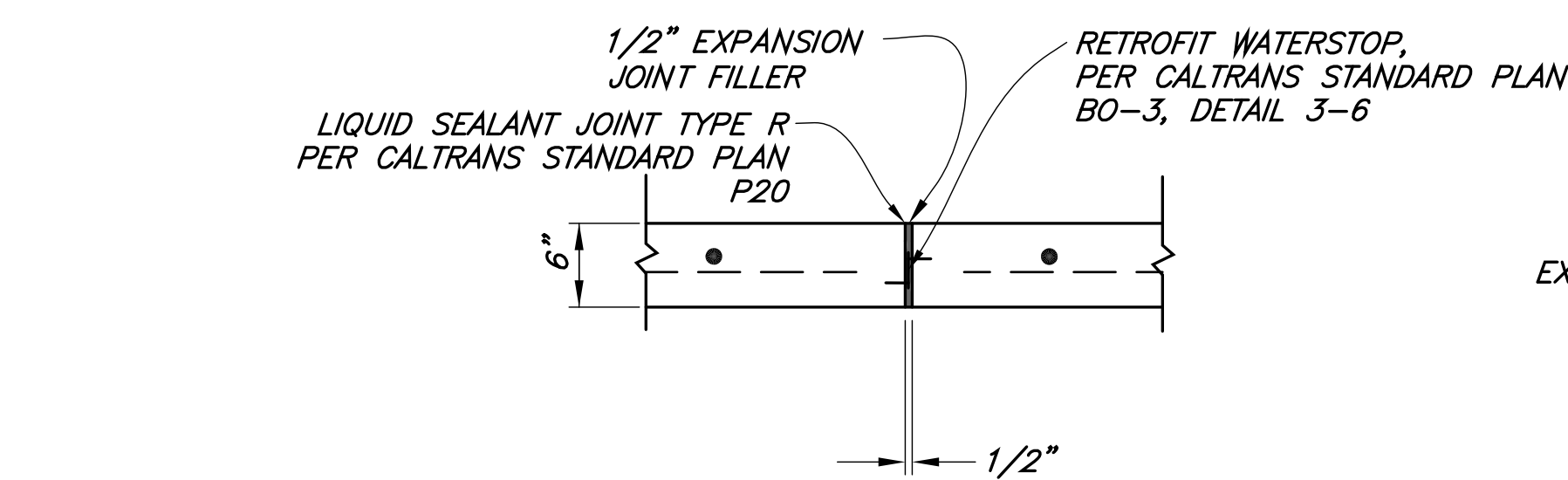
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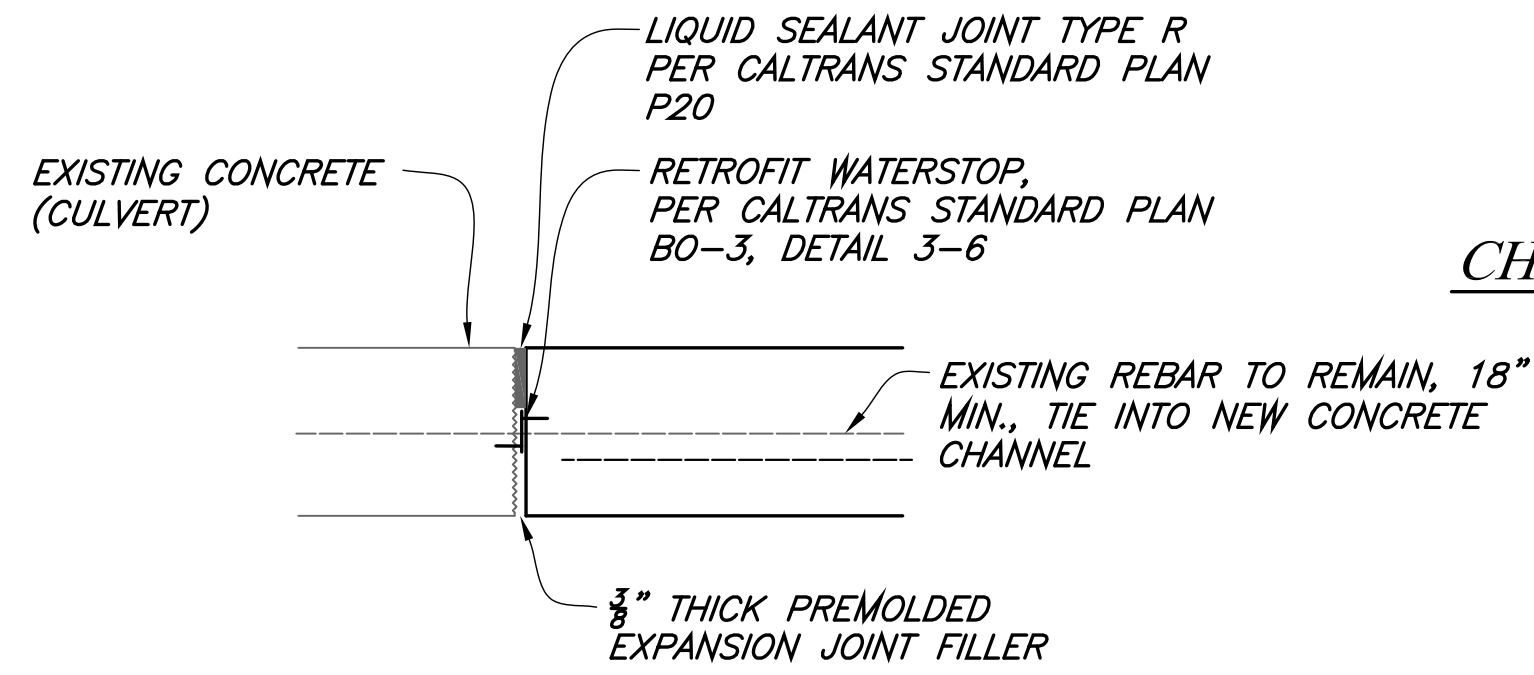
UNAUTHORIZED CHANGES OR USES:  
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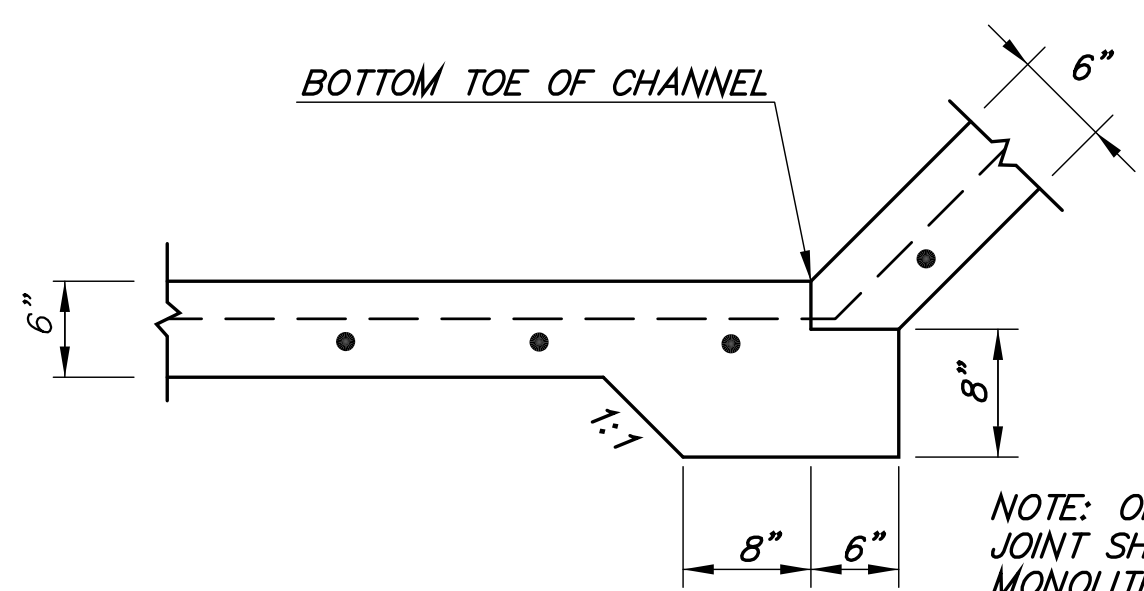
DESIGNED BY: *Erik Adelman*  
FLOOD CONTROL DESIGN ENGINEER  
7/18/2024 DATE



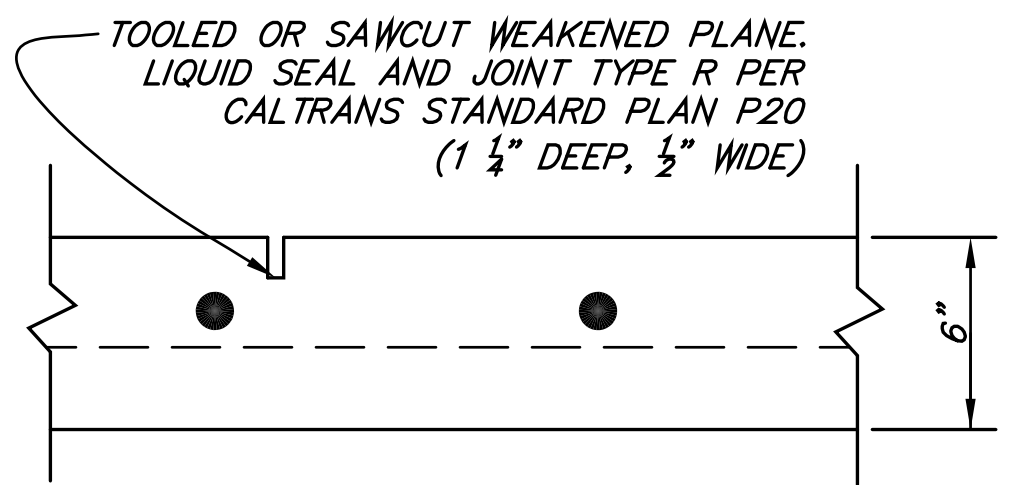
**EXPANSION JOINT DETAIL (TRANSVERSE)**  
N.T.S.



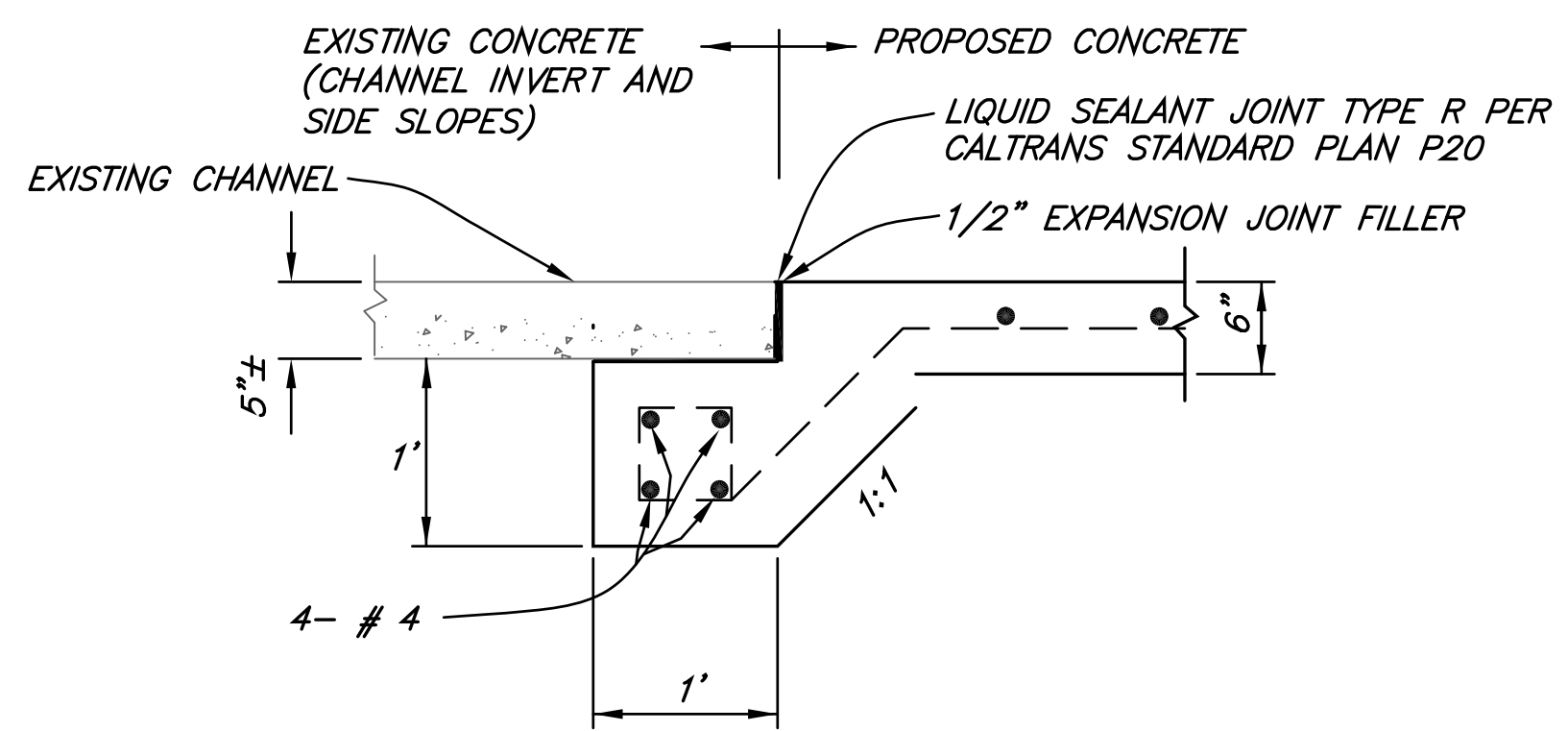
**CULVERT CONFORM DETAIL**  
N.T.S.



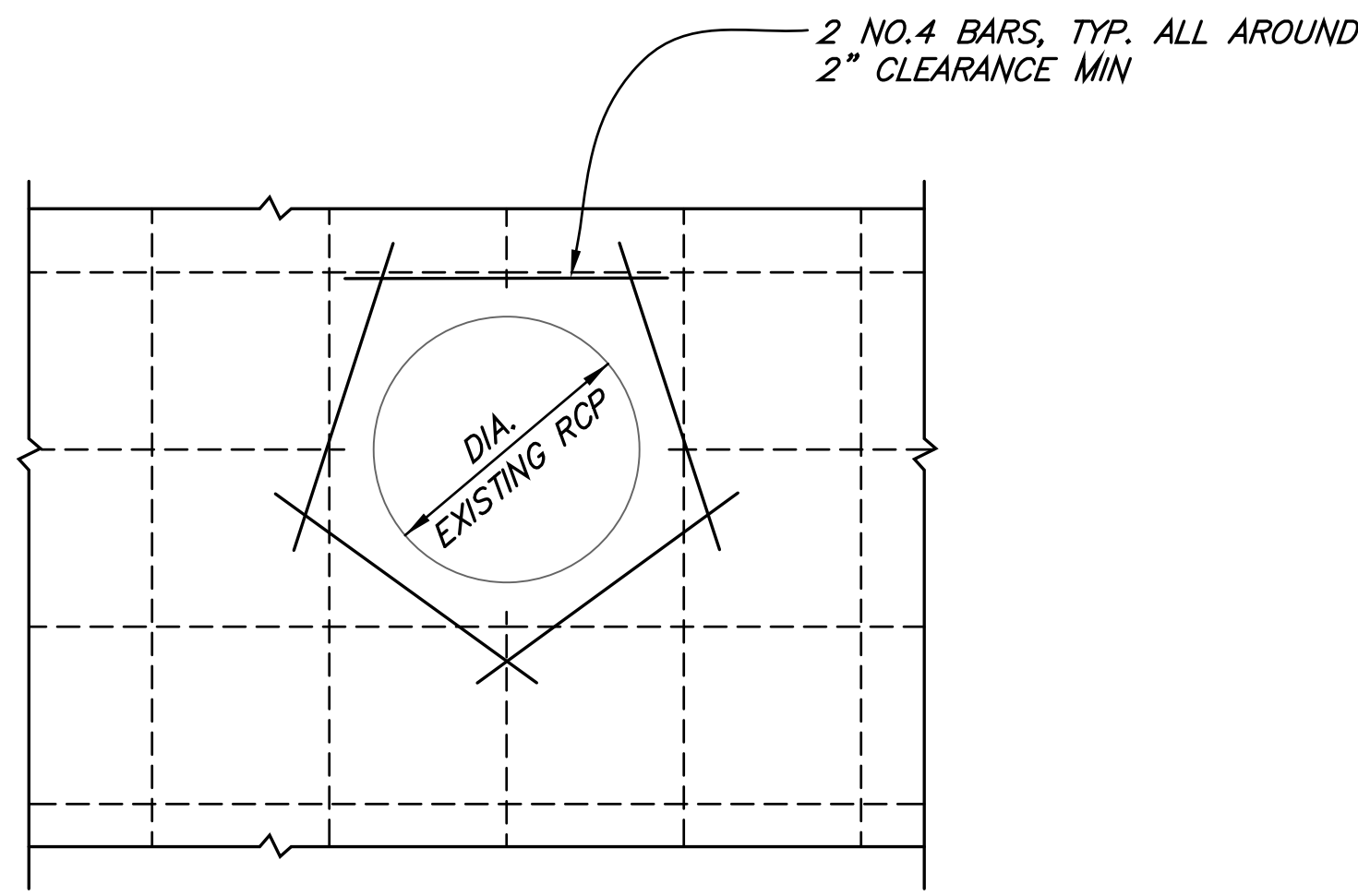
**OPTIONAL CONSTRUCTION JOINT (LONGITUDINAL)**  
N.T.S.



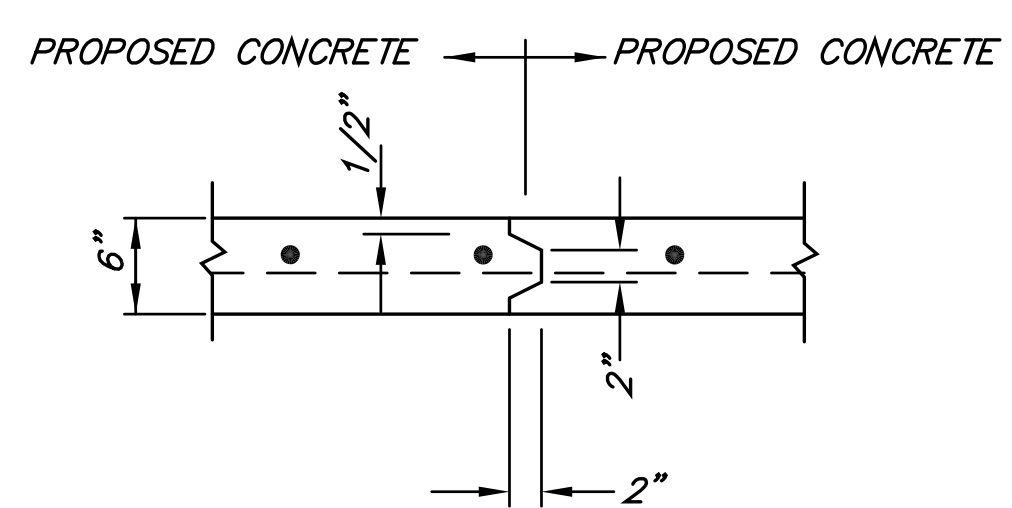
**WEAKENED PLANE JOINT DETAIL (TRANSVERSE)**  
N.T.S.



**CHANNEL CONFORM DETAIL (TRANSVERSE)**  
N.T.S.



**PIPE SLEEVE DETAIL**  
N.T.S.



**CONSTRUCTION JOINT DETAIL (TRANSVERSE)**  
N.T.S.

REVISIONS			
NO.	DESCRIPTION	DATE	APR

SANTA BARBARA COUNTY  
FLOOD CONTROL AND  
WATER CONSERVATION DISTRICT  
130 E. VICTORIA STREET  
SANTA BARBARA, CA 93101  
(805) 568-3440

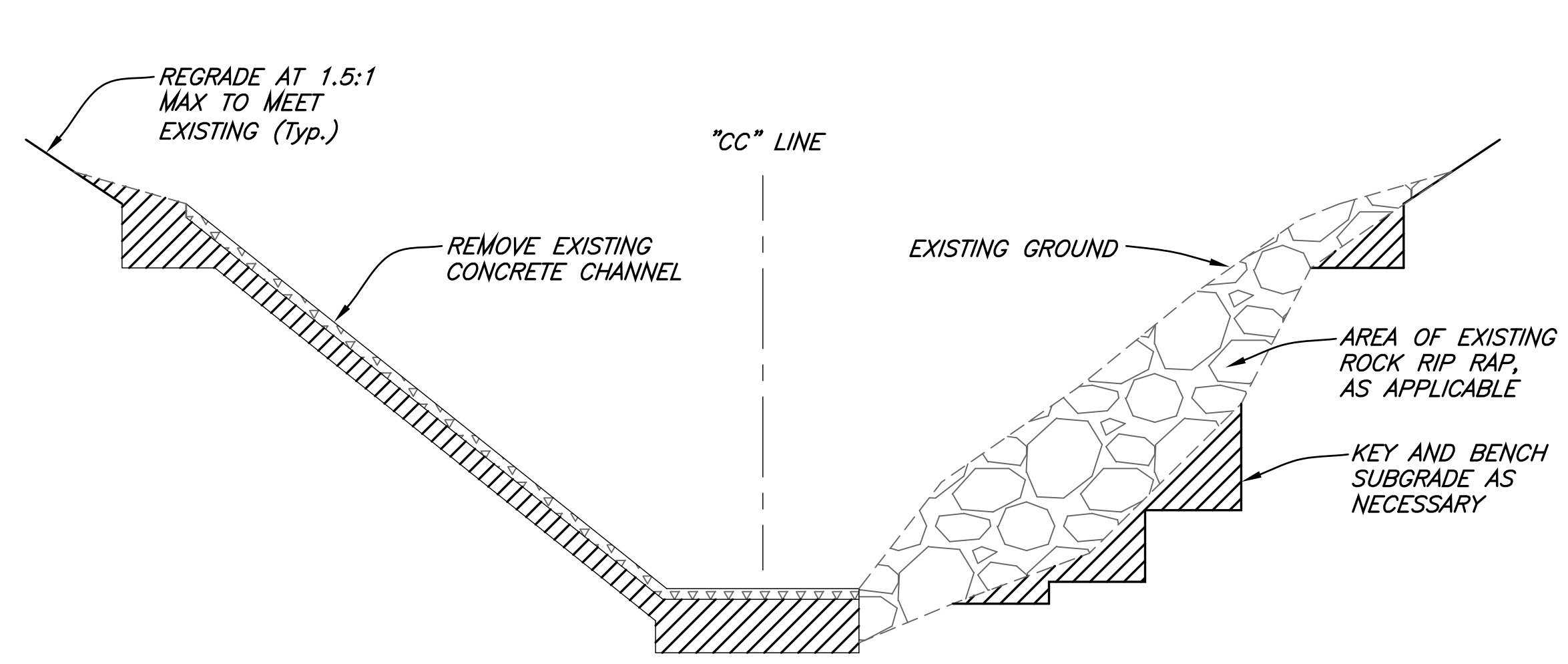


CIENEGUITAS CHANNEL  
REPAIR PROJECT  
UNINCORPORATED AREA  
SANTA BARBARA COUNTY, CALIFORNIA

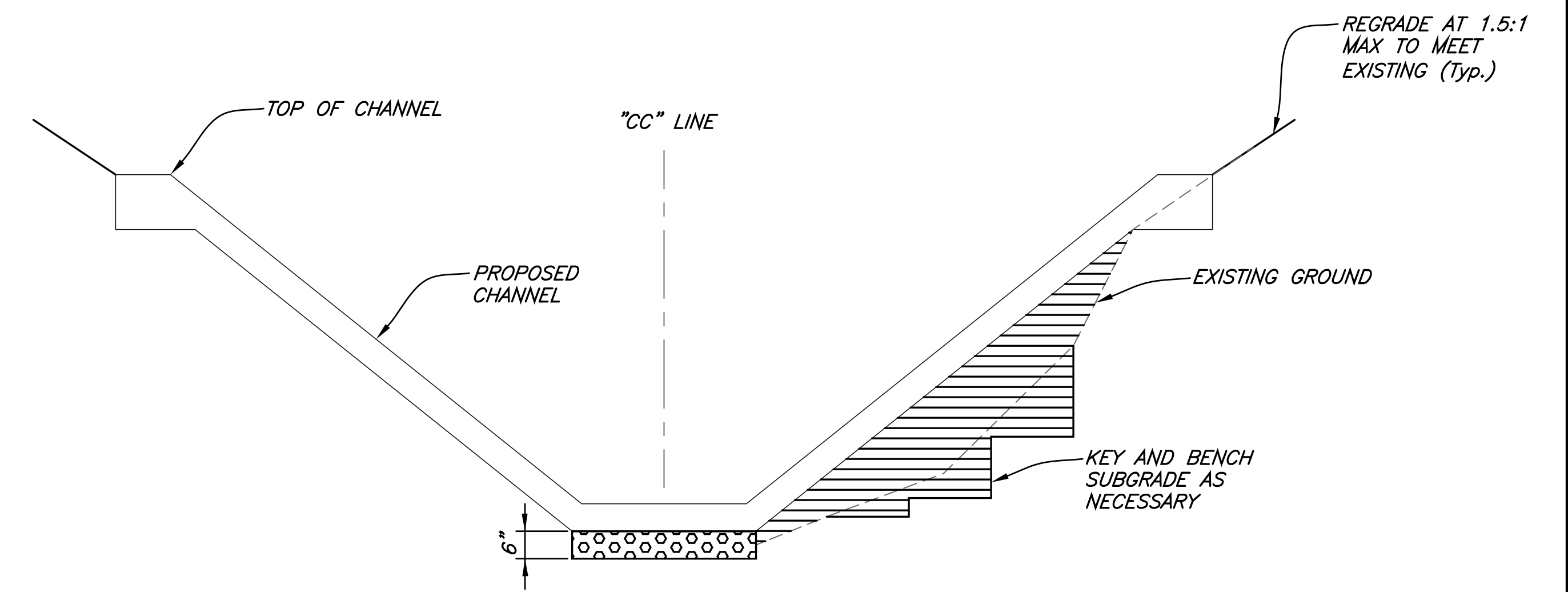
**DETAILS**

DESIGNED BY: EA  
DRAWN BY: EA  
CHECKED BY: MG

**O-1164**  
SHEET 4 OF 5  
Filename: Cienequitas Design.dwg

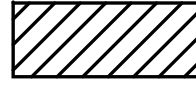
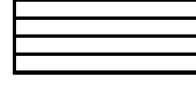
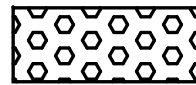
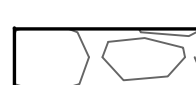



**CHANNEL EXCAVATION**  
N.T.S.



**CHANNEL BACKFILL**  
N.T.S.

**LEGEND:**

-  CHANNEL EXCAVATION
-  CHANNEL BACKFILL
-  CLASS 1 PERMEABLE MATERIAL TYPE B IN CLASS C FILTER FABRIC
-  SALVAGE ROCK RIP RAP
-  EXISTING CONCRETE CHANNEL

**CONSTRUCTION NOTES:**

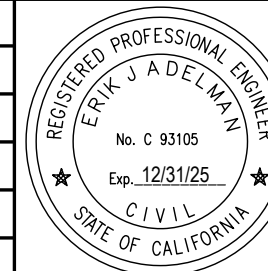
1. EXISTING CONCRETE CHANNEL TO BE REMOVED IS APPROXIMATELY 2" THICK. CONTRACTOR SHALL EXCAVATE AND GRADE CHANNEL SUBGRADE NECESSARY TO ACCOMMODATE NEW CHANNEL DIMENSIONS. SUBGRADE SHALL BE COMPACTED TO 90% MINIMUM RELATIVE COMPACTION TO A MINIMUM DEPTH OF 9 INCHES.
2. PREPARE SUBGRADE AREA BY REMOVING AND SALVAGING EXISTING ROCK RIP RAP, KEYING AND BENCHING INTO STABLE SUBGRADE MATERIAL BEYOND THE LIMITS OF ERODED AREA, AND PLACE BACKFILL TO AT LEAST 90% RELATIVE COMPACTION.

ALL UNDERGROUND UTILITIES SHOWN ARE PLOTTED BASED ON INFORMATION PROVIDED BY OTHERS, AND ARE APPROXIMATE. OVERHEAD UTILITIES ARE NOT SHOWN.

THE SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT IS NOT RESPONSIBLE FOR THE ACCURACY OF THIS INFORMATION. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION @ 1-800-422-4133.

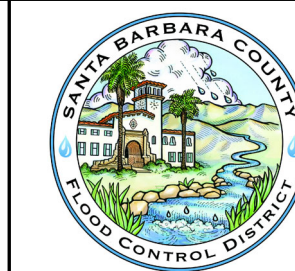
UNAUTHORIZED CHANGES OR USES: THE SANTA BARBARA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT AND ITS EMPLOYEES WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL PROPOSED CHANGES TO THE PLANS MUST BE PRESENTED IN WRITING TO THE DISTRICT AND APPROVED IN WRITING BY THE DISTRICT PRIOR TO IMPLEMENTATION OF ANY SUCH CHANGE OR USE.

REVISIONS			
NO.	DESCRIPTION	DATE	APR



DESIGNED BY: <i>Erik Adelman</i>	7/18/2024
FLOOD CONTROL DESIGN ENGINEER	DATE

SANTA BARBARA COUNTY  
FLOOD CONTROL AND  
WATER CONSERVATION DISTRICT  
130 E. VICTORIA STREET  
SANTA BARBARA, CA 93101  
(805) 568-3440



CIENEGUITAS CHANNEL  
REPAIR PROJECT  
UNINCORPORATED AREA  
SANTA BARBARA COUNTY, CALIFORNIA

**EXCAVATION & BACKFILL**

DESIGNED BY: EA
DRAWN BY: EA
CHECKED BY: MG

**O-1164**

SHEET 5 OF 5

Filename: Cieneguitas Design.dwg