



**Thienes Engineering, Inc.**  
CIVIL ENGINEERING • LAND SURVEYING

**PRELIMINARY HYDROLOGY  
STUDY**

FOR

**HARLEY KNOX INDUSTRIAL DEVELOPMENT  
657 HARLEY KNOX BOULEVARD  
PERRIS, CALIFORNIA**

-

PREPARED FOR

FIRST INDUSTRIAL REALTY TRUST, INC.  
898 N. PACIFIC COAST HIGHWAY BLVD., SUITE 175  
EL SEGUNDO, CA 90245  
PHONE: (310) 414-5400  
FAX: (310) 414-5462

FEBRUARY 14, 2022  
REVISED MAY 20, 2022

JOB NO. 4066

PREPARED BY

THIENES ENGINEERING  
14349 FIRESTONE BLVD.  
LA MIRADA, CALIFORNIA 90638  
(714) 521-4811

# PRELIMINARY HYDROLOGY STUDY

FOR

## HARLEY KNOX INDUSTRIAL DEVELOPMENT

PREPARED UNDER  
THE SUPERVISION OF



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REINHARD STENZEL, PE  
R.C.E. 56155  
EXP. 12/31/22

## INTRODUCTION

### A: PROJECT LOCATION

The project site is located on the northerly side of Harley Knox Boulevard west of Indian Avenue. Please see next page for vicinity map.

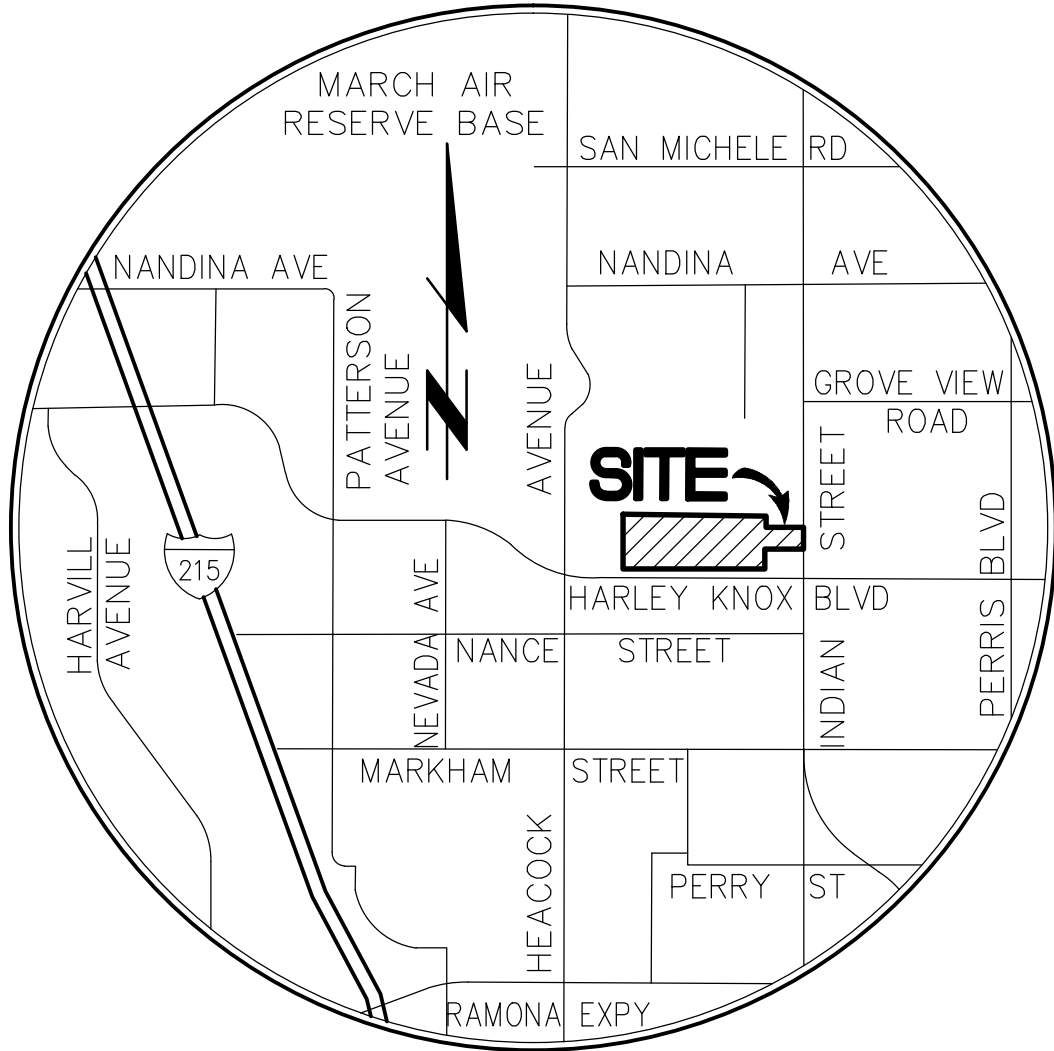
### B: STUDY PURPOSE

The purpose of this study is to determine existing and proposed condition 100-year peak flow rates for the project site. Flow ultimately discharge to Perris Valley Storm Channel, Lateral B.

### C: PROJECT STAFF:

Thienes Engineering staff involved in this study include:

Reinhard Stenzel  
Brian Weil



# VICINITY MAP

N.T.S.

## DISCUSSION

The project site encompasses approximately 21.58 acres. Proposed improvements include one warehouse type building with approximately 348,000 square feet. There is a truck dock area located on the northerly side of the building with additional trailer parking at the easterly portion of the site. Vehicle parking is located on the southerly portion of the site. There is a bioretention area at the northwest corner of the site and other landscaped areas throughout.

### Master Plan Hydrology

From the Master Drainage Plan of the Perris Valley Area (dated June 1991), the site has been tabled to Line “D” which is generally located in Markham Street, and Nance Street. However, Webb and Associates updated the Master Drainage Plan for Line “D” which reduces area to Line D and tables other areas to Lines “E-3” and “E-11”. From this map, the project site has now been tabled northerly to Perris Valley Storm Channel, Lateral “B”.

Riverside County Flood Control and Water Conservation District has acknowledged that the site can drain to this Channel, but flows must be limited to existing conditions (undeveloped).

### FEMA Flood Zones

The project site is located within Flood Zone X (unshaded) and Zone D per Map Number 06065C1430H, Effective August 18, 2014. Flood Zone X (unshaded) is described as “areas determined to be outside the 0.2% annual chance floodplain”. Flood Zone D is described as “areas in which flood hazards are undetermined, but possible”. See Appendix “A” for reference FIRM.

### Existing Storm Drains

The Perris Valley Storm Channel, Lateral “B” is adjacent to the northerly property line. The channel has a base width of 46’, depth of 9.0’ with 2:1 sideslopes. This is a Riverside County Flood Control and Water Conservation District facility.

There is an existing 18” storm drain in Harley Knox adjacent to the neighboring development to the east. This storm drain conveys runoff easterly in Harley Knox then northerly in Indian Avenue to the Perris Valley Storm Channel. This appears to be a City of Perris storm drain.

See Appendix “A” for reference storm drain plans.

### Existing Condition

The site is currently a vacant dirt lot with natural weeds and grasses. The site is relatively flat. The westerly portion of the site (nodes 100-101 and 110-111 on existing condition hydrology map) tends to drain southerly to Harley Knox Boulevard. The respective 100-year peak flow rates to Harley Knox are approximately 10.8 cfs and 8.4 cfs.

The easterly portion of the site (nodes 200-201) tends to drain easterly towards Indian Avenue. The 100-year existing condition peak flow rate at this location is approximately 5.8 cfs

See Appendix “B” for existing condition hydrology calculations and Appendix “D” for hydrology map.

### Proposed Condition

Runoff from the westerly parking lot, the northerly truck yard, and the northerly portion of the proposed building (nodes 100-107 on proposed condition hydrology map) drains to catch basins in the parking lot and truck yard. A proposed storm drain conveys runoff easterly.

Runoff from the southerly parking lot and the southerly portion of the building (nodes 200-203) drain to catch basins located in the parking area. A proposed storm drain conveys runoff easterly then to the north and confluences with the previously mentioned storm drain (at node 204). The storm drain continues easterly. The easterly truck parking lot (nodes 205-206) is intercepted in catch basins and conveyed to this storm drain. The onsite storm drain then connects to the Perris Valley Storm Channel.

The proposed condition 100-year peak flow rate is approximately 52.7 cfs undetained.

See Appendix “B” for proposed condition hydrology calculations and Appendix “D” for hydrology map.

### Detention

For final design, Riverside County typically requires detention analysis for the 1-hour, 3-hour, 6-hour and 24-hour duration events for the 2-year, 5-year and 10-year return frequencies. Detention basin and outlet sizing will ensure that none of these storm events has a higher peak discharge in the post-development condition than in the pre-development condition.

Hydrographs for the above events were established for both existing (pre-developed) and proposed (commercial) development conditions. Hydrograph parameters are as follows:

- For the 2-year and 5-year events, the loss rate will be determined using an AMC I condition. For the 10-year event, AMC II was used.

- Undeveloped condition Low Loss=90%
- Basin site Low Loss=10%
- Rainfall values from the Riverside County Hydrology Manual

For preliminary design purposes, sizing may be based on the difference in runoff hydrograph volume between the “developed” condition and the “pre-developed” condition for the 24-hour duration event for the 10-year return frequency.

Hydrographs were established using the area of the project site (site only, no offsite area) for the existing and proposed condition for the 1-hour, 3-hour, 6-hour and 24-hour events for the 10-year storm frequency. The following table summarizes pre- and post-development peak flow rates for the specified events:

Event	Existing Condition	Proposed Condition	Difference
10-Year 1-hour	31.4 cfs	38.3 cfs	+6.9 cfs
10-Year 3-hour	17.0 cfs	22.8 cfs	+5.8 cfs
10-Year 6-hour	13.4 cfs	19.4 cfs	+6.0 cfs
10-Year 24-hour	2.5 cfs	7.2 cfs	+4.7 cfs

The following table summarizes the volumes for the specified storm events:

Event	Existing Condition	Proposed Condition	Difference
10-Year 1-hour	0.88 ac-ft	1.29 ac-ft	+0.41 ac-ft
10-Year 3-hour	0.88 ac-ft	2.04 ac-ft	+1.16 ac-ft
10-Year 6-hour	0.85 ac-ft	2.63 ac-ft	+1.78 ac-ft
10-Year 24-hour	0.60 ac-ft	4.37 ac-ft	+3.77 ac-ft

From the above table, the largest difference in volume is approximately 3.77 acre-feet. This volume has been provided in the truck and trailer yard at a maximum depth of 1.60'. Final design will include basin routing.

See Appendix “C” for proposed and existing condition hydrographs.

### Methodology

Hydrology calculations were computed using Riverside County's Rational Method Program (by AES Software). The soil type is “B” per the Riverside County Hydrology Manual (see Appendix "A"). Hydrographs were computed using CivilD Software.

APPENDIX

DESCRIPTION

A

REFERENCE MATERIALS

B

HYDROLOGY CALCULATIONS  
EXISTING CONDITION  
PROPOSED CONDITION

C

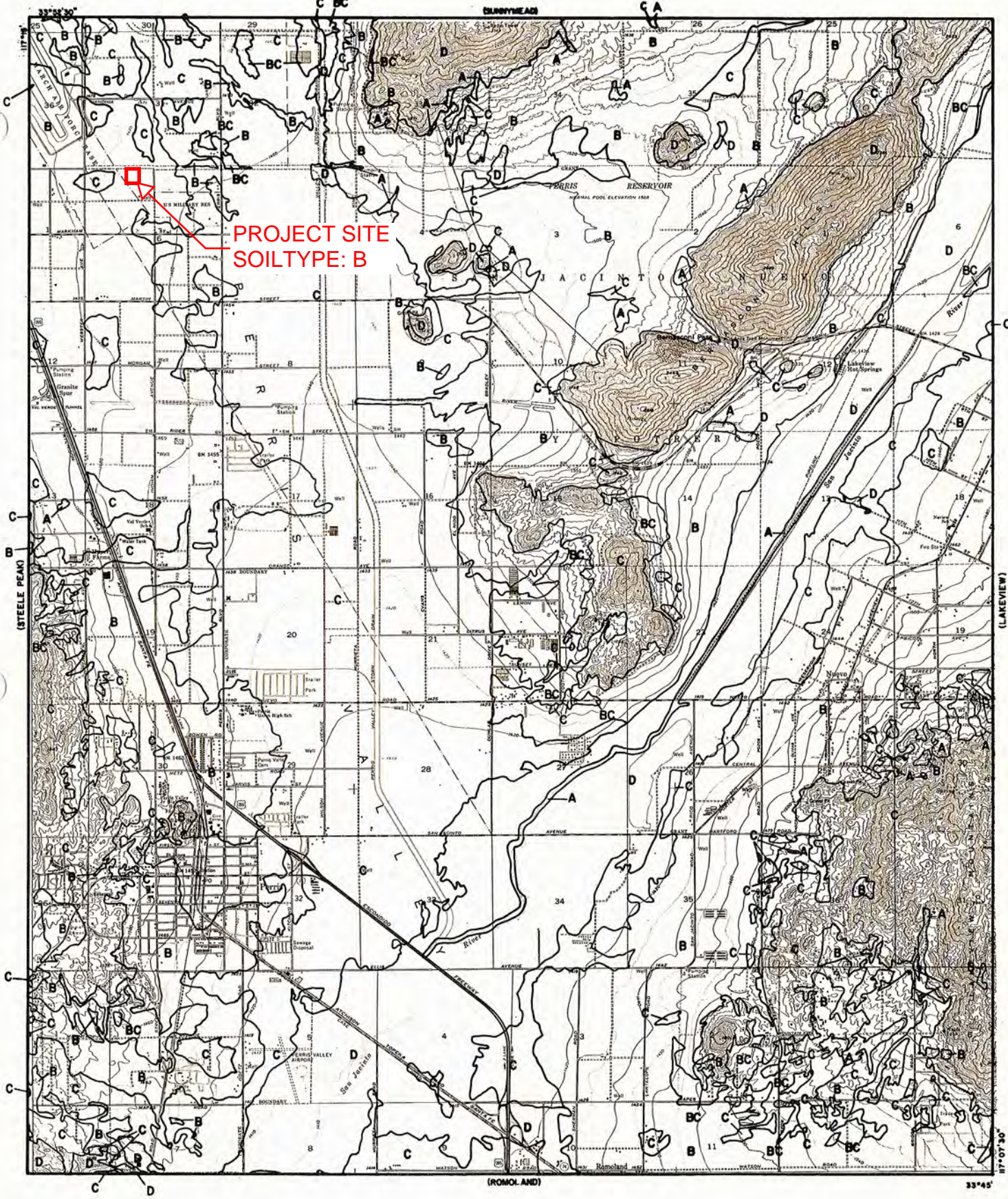
DETENTION ANALYSIS

D

HYDROLOGY MAP

# **APPENDIX A**

## **REFERENCE MATERIALS**



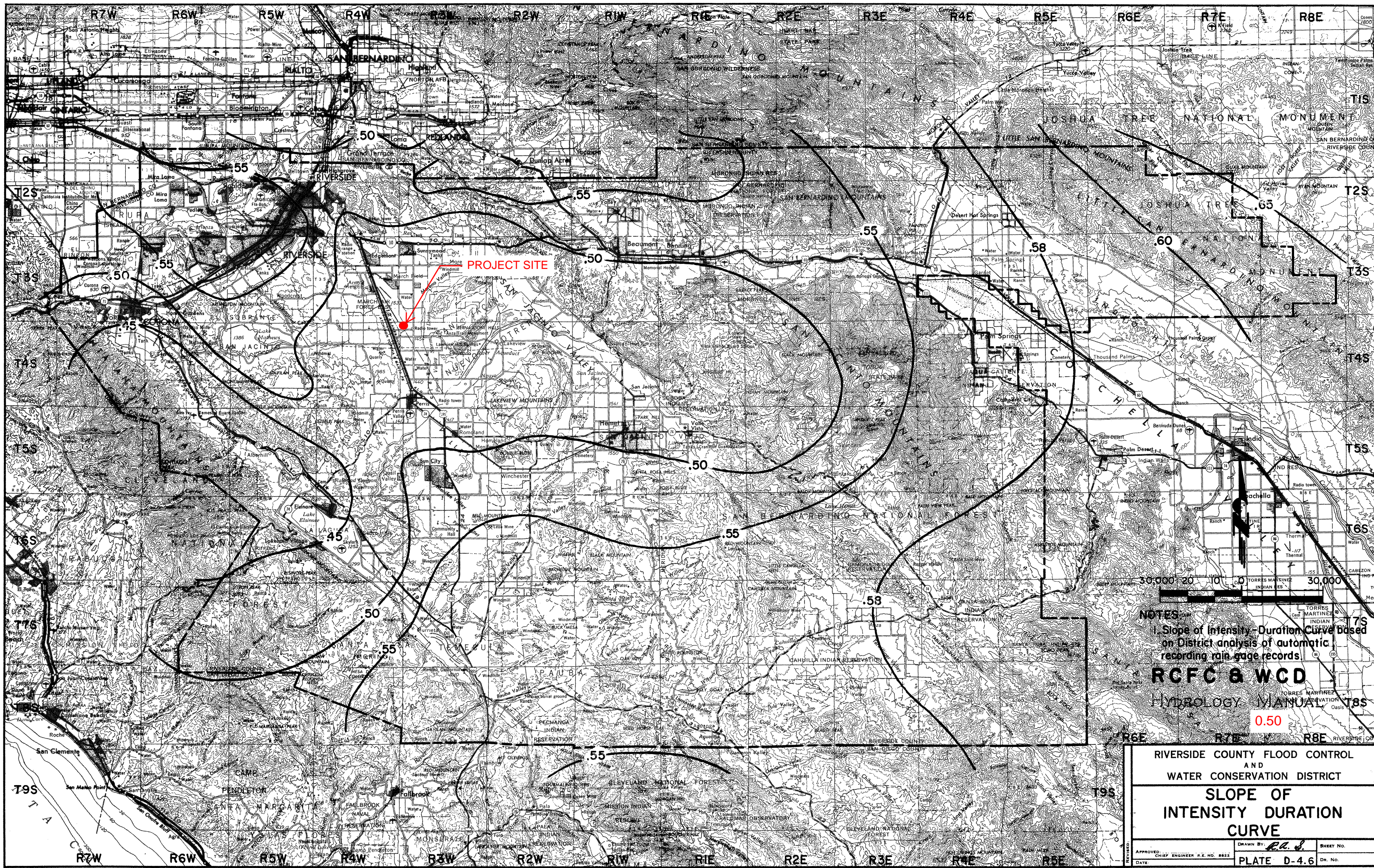
**PROJECT SITE**  
**SOILTYPE: B**

**LEGEND**

— SOILS GROUP BOUNDARY  
A SOILS GROUP DESIGNATION

**RCFC & WCD**  
HYDROLOGY MANUAL

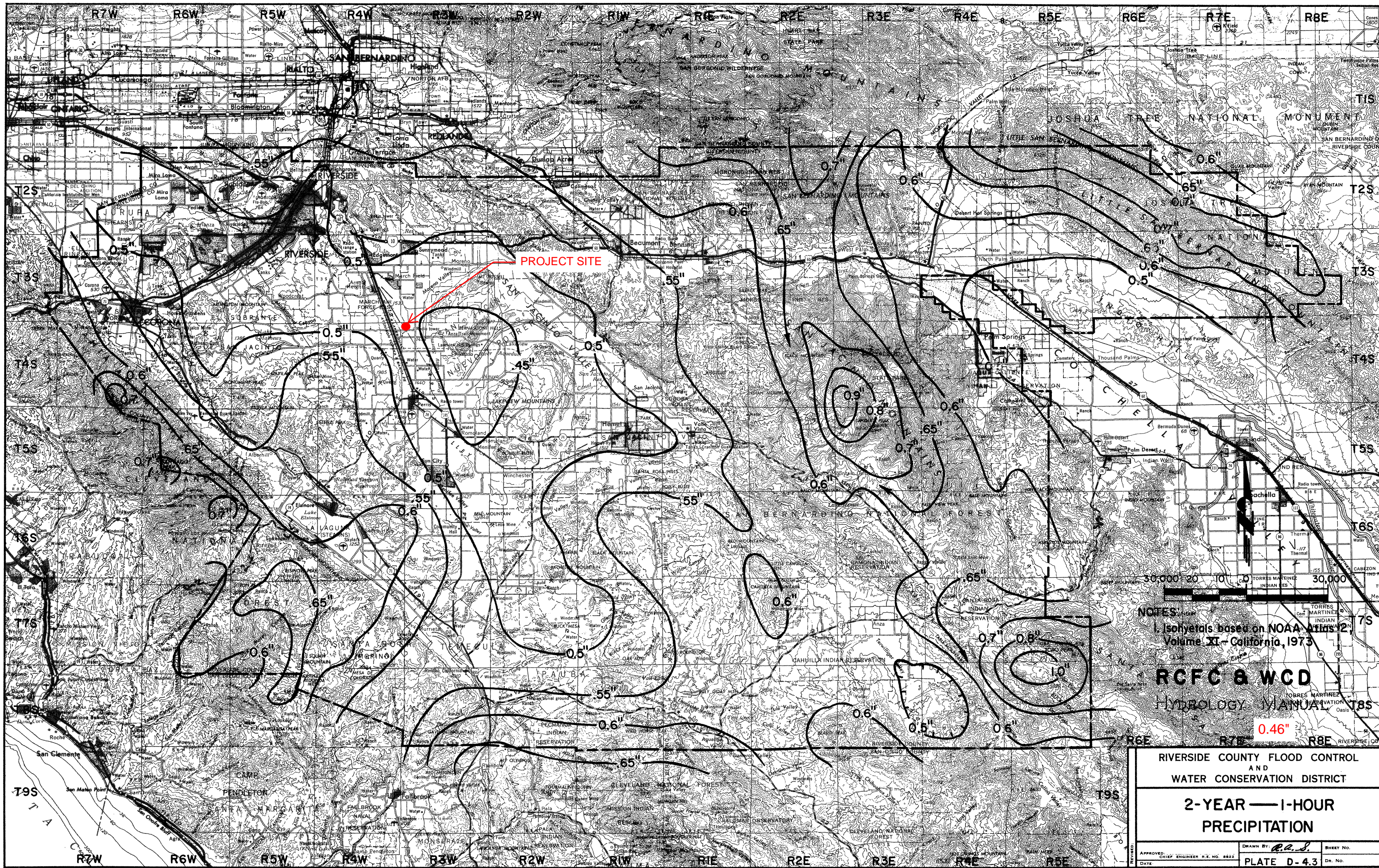
**HYDROLOGIC SOILS GROUP MAP**  
**FOR**  
**PERRIS**



NOTES:  
 1. Slope of Intensity-Duration Curve Based on District analysis of automatic recording rain-gage records.

**RCFC & WCD**  
 HYDROLOGY MANUAL  
 0.50

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		
<b>SLOPE OF INTENSITY DURATION CURVE</b>		
APPROVED: CHIEF ENGINEER P.E. NO. 8822 DATE	DRAWN BY: <i>R.C.S.</i> PLATE D-4.6	SHEET NO. DR. NO.



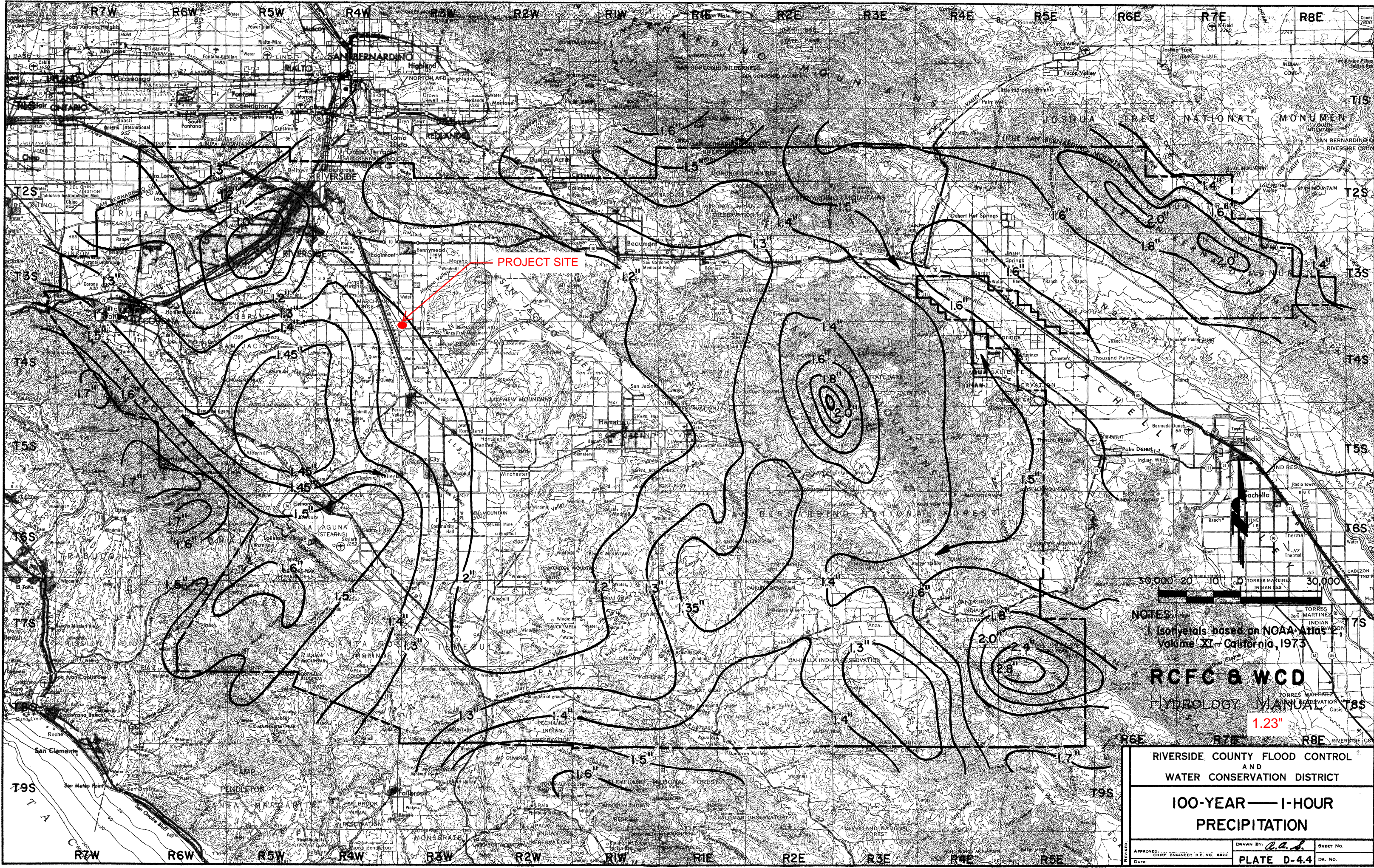
**PROJECT SITE**

NOTES:  
 Isohyets based on NOAA Atlas 2,  
 Volume XI - California, 1973

**RCFC & WCD**  
 HYDROLOGY MANUAL

0.46"

<b>RIVERSIDE COUNTY FLOOD CONTROL          AND          WATER CONSERVATION DISTRICT</b>		
<b>2-YEAR — 1-HOUR          PRECIPITATION</b>		
APPROVED: _____ CHIEF ENGINEER R.E. NO. 8822	DRAWN BY: <i>P.L.S.</i>	SHEET NO. _____
DATE: _____	PLATE D-4.3	DR. NO. _____



PROJECT SITE



NOTES:  
 1 Isohyets based on NOAA Atlas  
 Volume XI - California, 1973

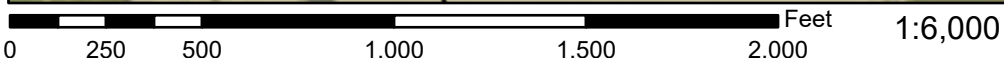
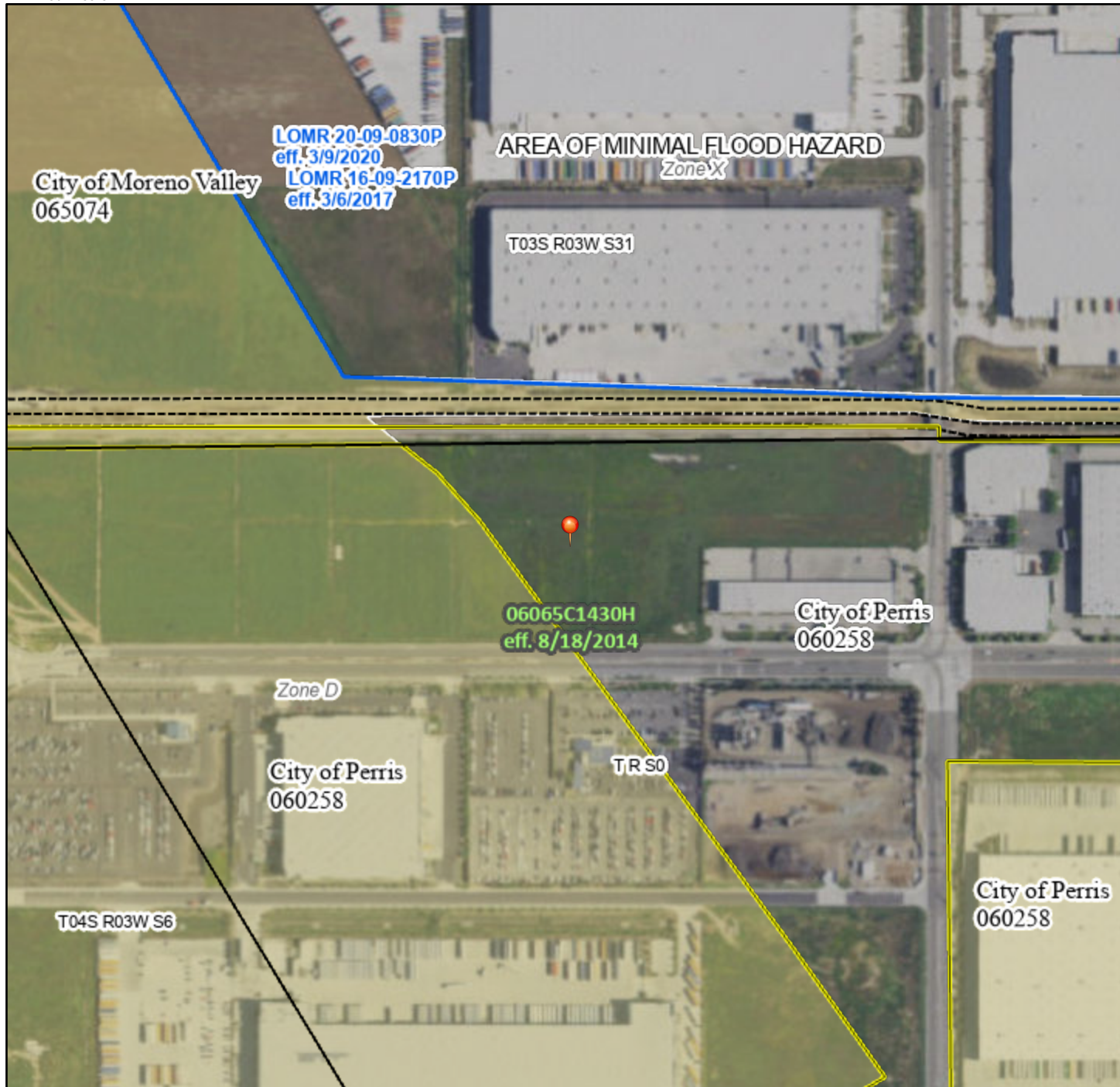
**RCFC & WCD**  
 HYDROLOGY MANUAL  
 1.23"

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT		
<b>100-YEAR — 1-HOUR PRECIPITATION</b>		
APPROVED: DATE	CHIEF ENGINEER P.E. NO. 8822	DRAWN BY: <i>C.A.S.</i> SHEET NO.
	PLATE D-4.4	DR. NO.

# National Flood Hazard Layer FIRMMette



117°14'36"W 33°51'44"N



117°13'59"W 33°51'14"N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- |                                    |  |  |
|------------------------------------|--|--|
| <b>SPECIAL FLOOD HAZARD AREAS</b>  |  | Without Base Flood Elevation (BFE)<br><i>Zone A, V, A99</i>  |
|                                    |  | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>   |
|                                    |  | Regulatory Floodway  |
| <b>OTHER AREAS OF FLOOD HAZARD</b> |  | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
|                                    |  | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>  |
|                                    |  | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>  |
|                                    |  | Area with Flood Risk due to Levee <i>Zone D</i>  |
| <b>OTHER AREAS</b>                 |  | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>   |
|                                    |  | Effective LOMRs  |
|                                    |  | Area of Undetermined Flood Hazard <i>Zone D</i>  |
| <b>GENERAL STRUCTURES</b>          |  | Channel, Culvert, or Storm Sewer   |
|                                    |  | Levee, Dike, or Floodwall  |
| <b>OTHER FEATURES</b>              |  | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation  |
|                                    |  | 17.5   |
|                                    |  | Coastal Transect   |
|                                    |  | Base Flood Elevation Line (BFE)  |
|                                    |  | Limit of Study   |
|                                    |  | Jurisdiction Boundary  |
|                                    |  | Coastal Transect Baseline  |
|                                    |  | Profile Baseline   |
|                                    |  | Hydrographic Feature   |
| <b>MAP PANELS</b>                  |  | Digital Data Available   |
|                                    |  | No Digital Data Available  |
|                                    |  | Unmapped   |

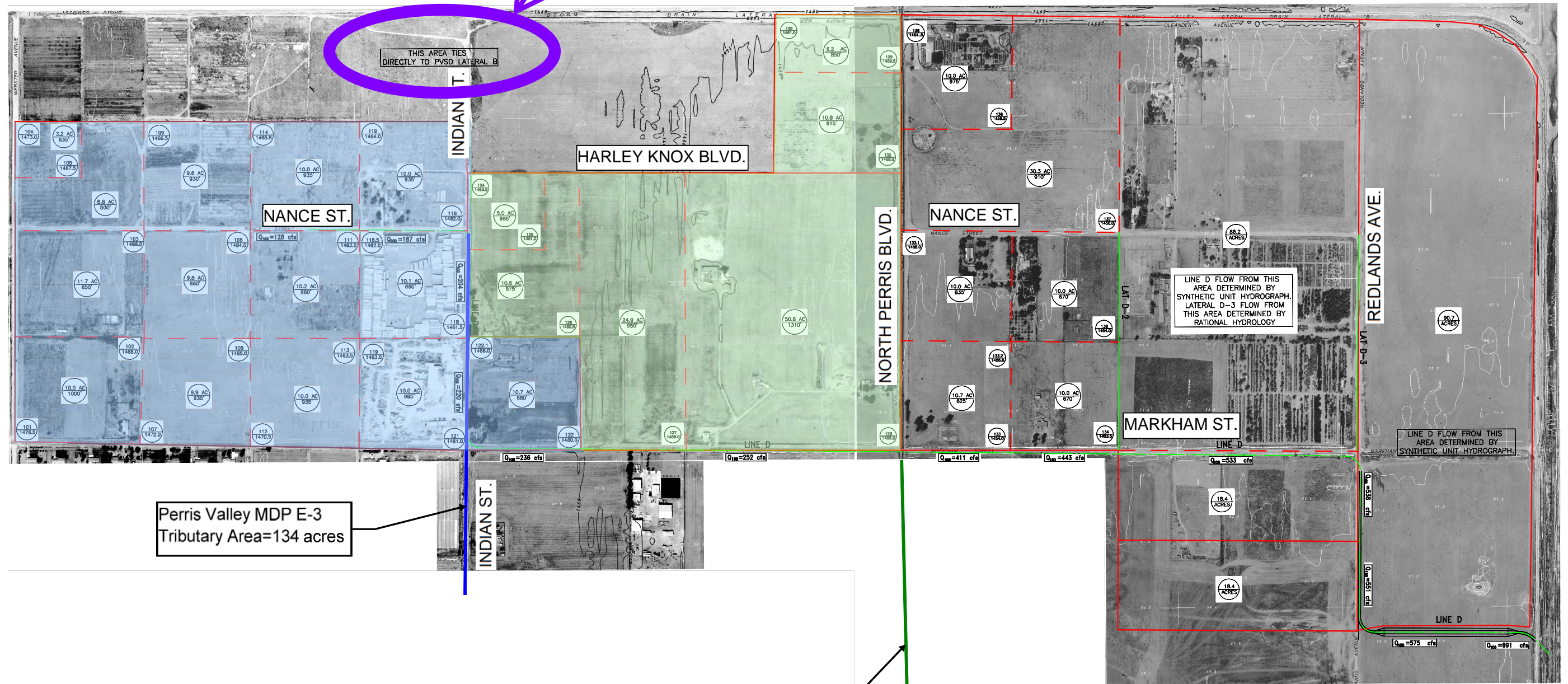


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

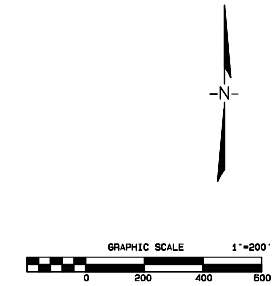
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **12/15/2021 at 2:48 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

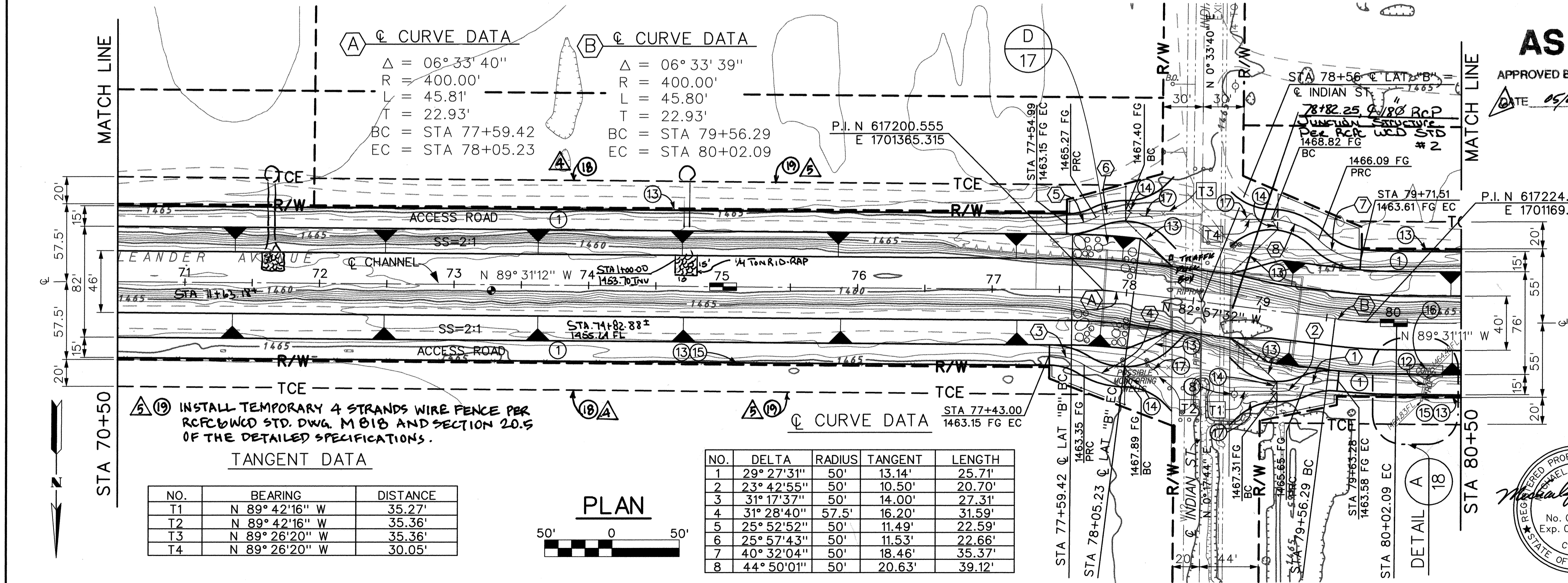
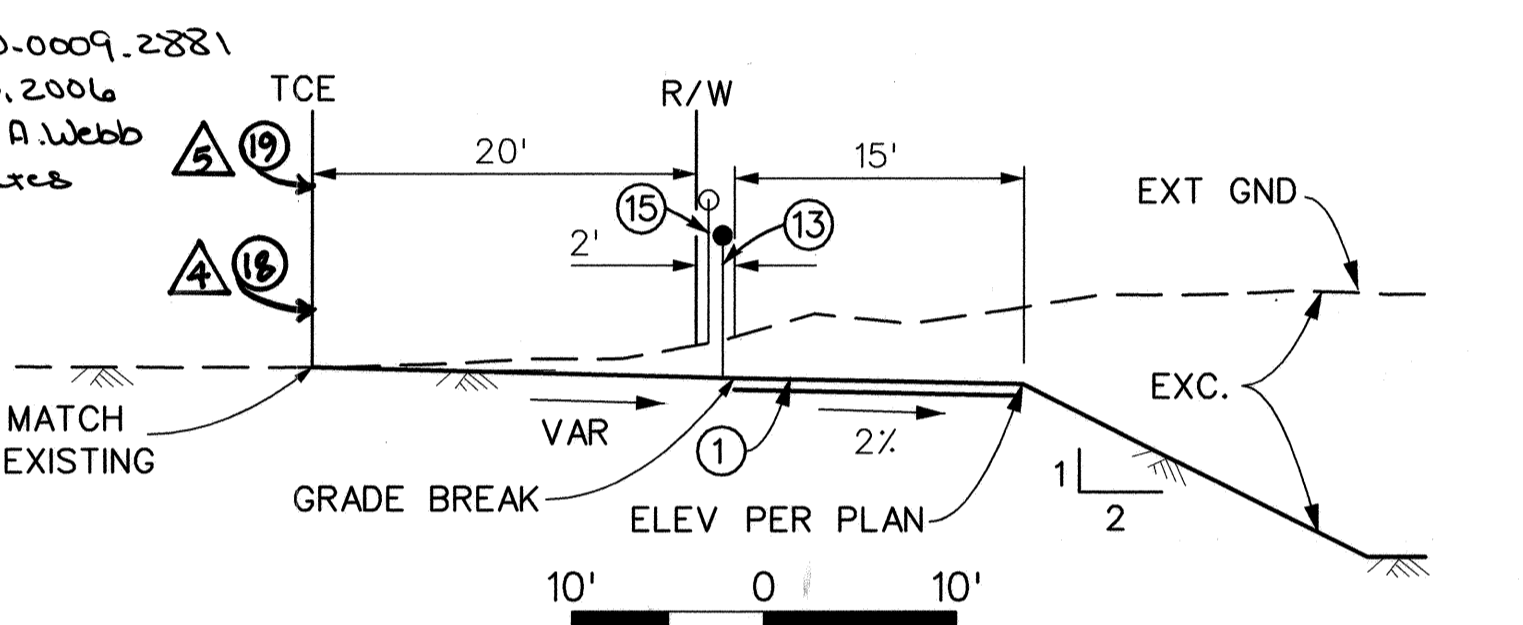
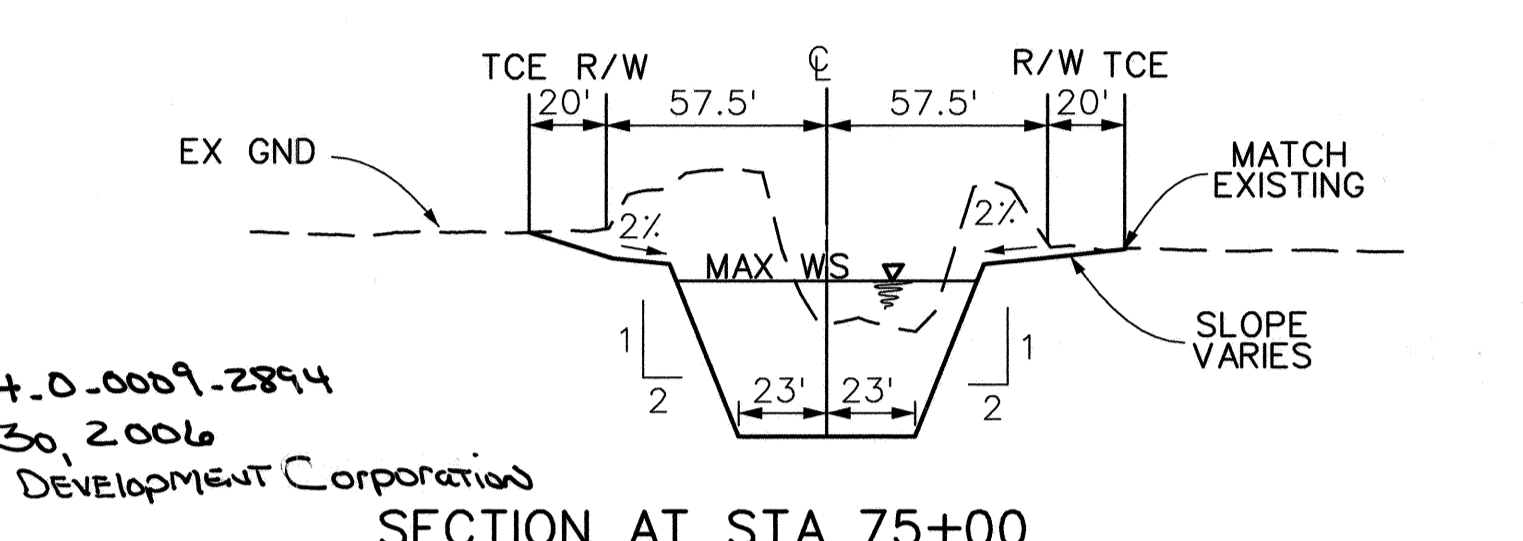
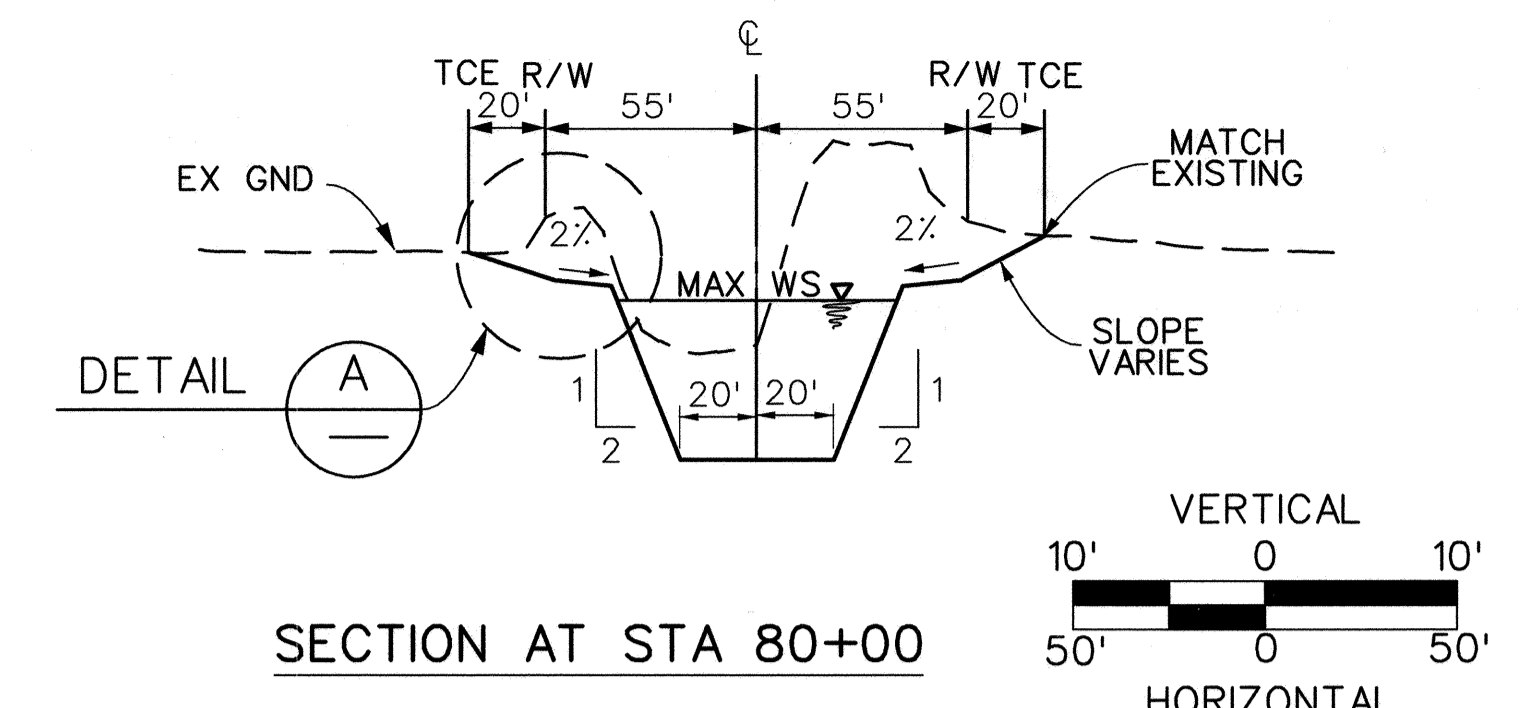
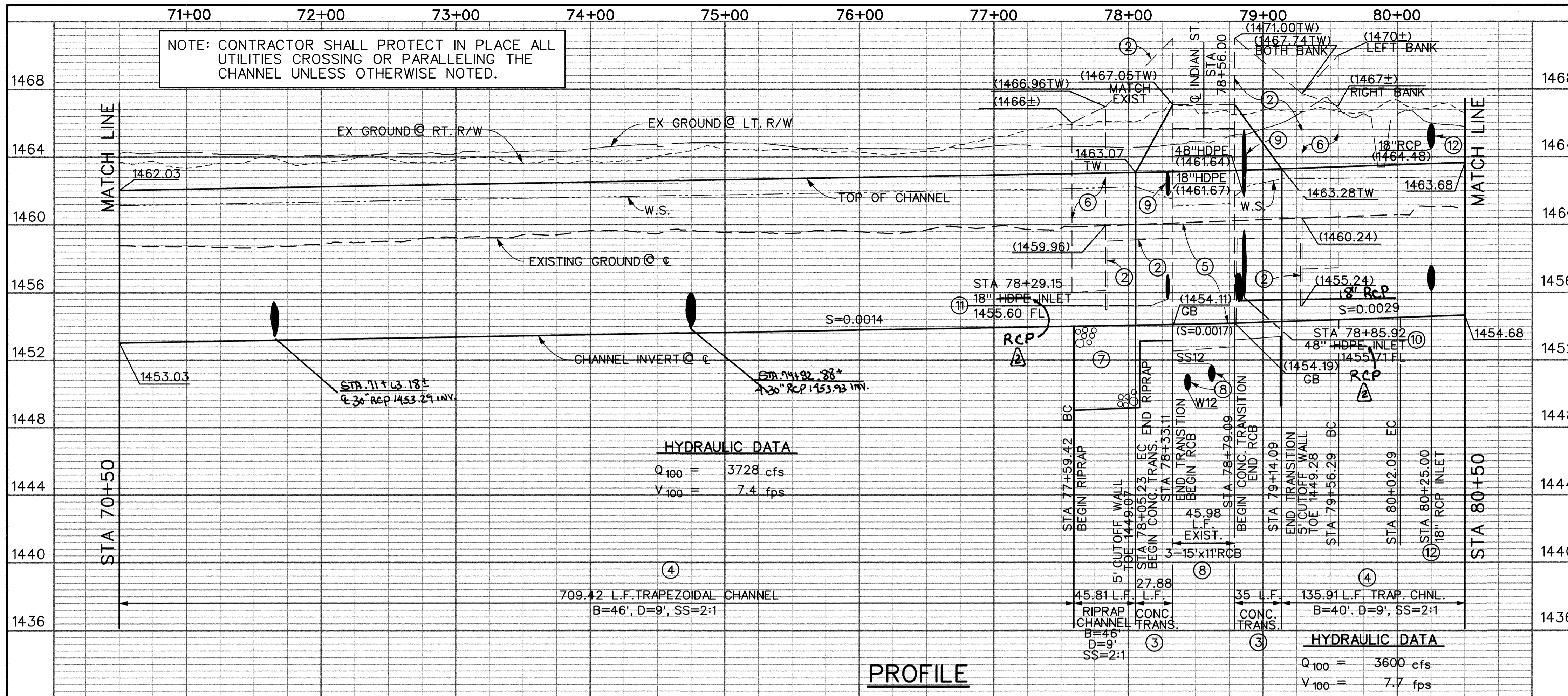


LEGEND	
HYD BOUNDARY	—
HYD SUB-AREA	- - -
STORMDRAIN	—
NODE ELEVATION	109 83.0
AREA	9.5 AC 700
LENGTH	



LINE D HYDROLOGY		
PERRIS VALLEY COMMERCE CENTER		
SPECIFIC PLAN		
LINE D		
HYDROLOGY MAP		
SCALE 1" = 200'	DATE 5/4/2009	SHEET 1
DESIGNED BY	CHECKED BY	DATE 09-2013
PLN. CH. REP.	APP. BY	OF 1 SHEETS
F.S.		DRG. NO.

C:\PROJECTS\2009\20090501\20090501.DWG



Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600

for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

**PSOMAS**

1700 Iowa Avenue, Suite 160  
Riverside, CA 92507  
(909) 787-8421 (909) 682-3379 (FAX)

PERMANENT BENCH MARK B.M. NO. M-30 AT THE INTERSECTION OF PERRIS BLVD. AND OLEANDER (BRIDGE #5309); 24.0 FEET WEST OF PERRIS BLVD.; 5.5 FEET SOUTH OF THE NORTHERLY END OF A 12 INCH X 48 FOOT CONCRETE HEADWALL; A BRASS DISK SET IN THE TOP OF A CONCRETE HEADWALL AND MARKED M-30 1963 1464.219 EL.

P8/233381 REVISIONS

1	Note Revised	cl	2/25/04
2	Pipe Type Revised	cl	2/25/04
3	Note Added	cl	2/25/04
4	Note Deleted	cl	2/25/04
5	Note Added	cl	2/25/04
6	Added Traffic Cable Pole Box (120)	cl	2/25/04

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

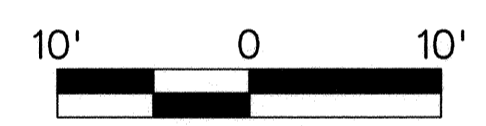
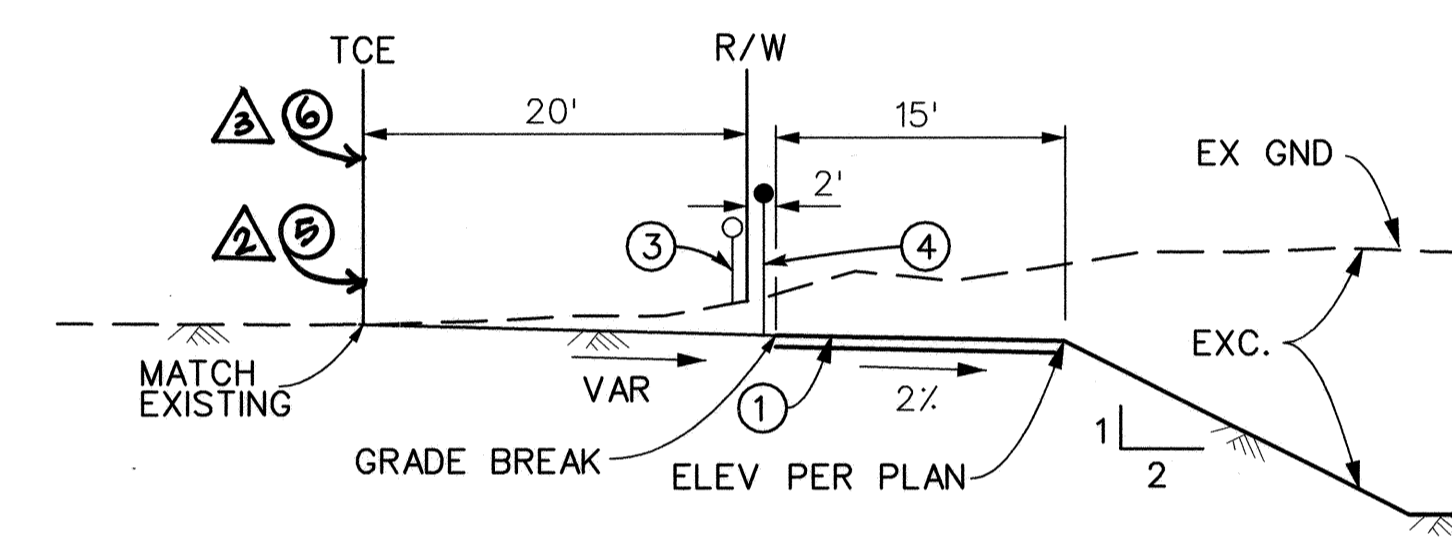
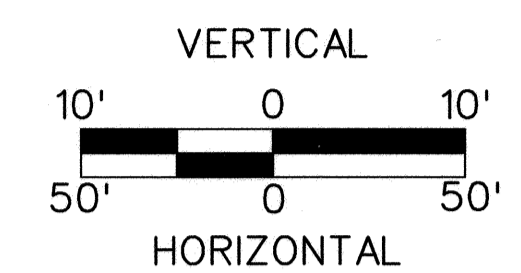
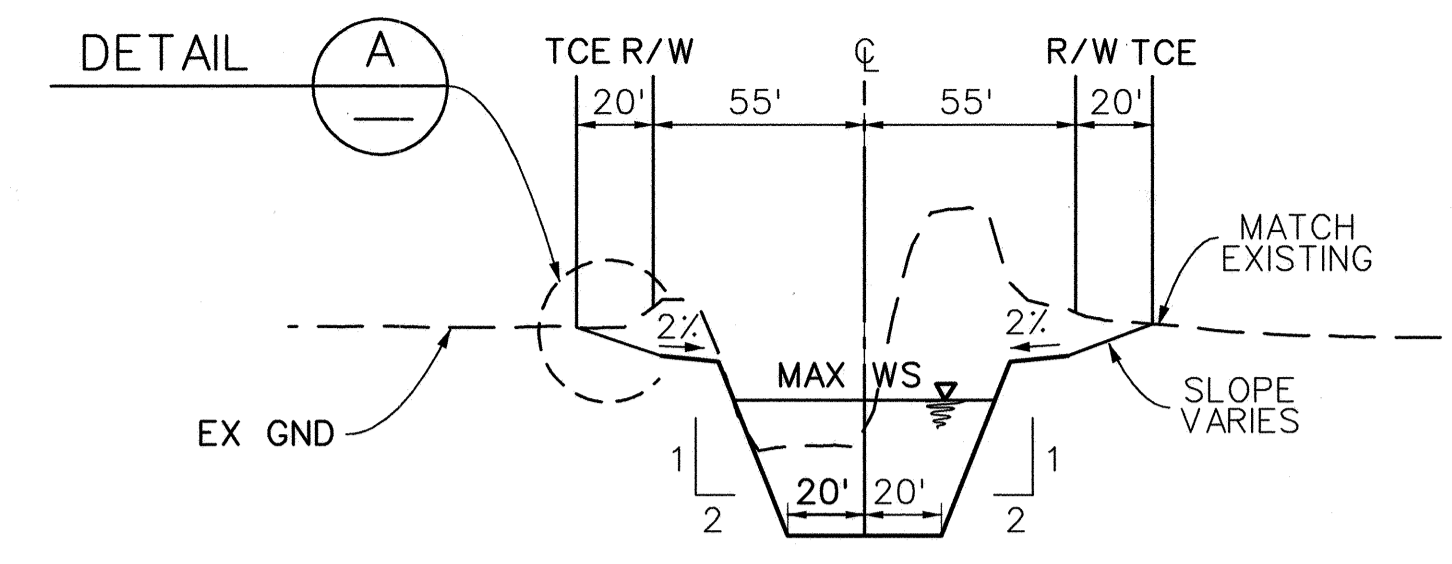
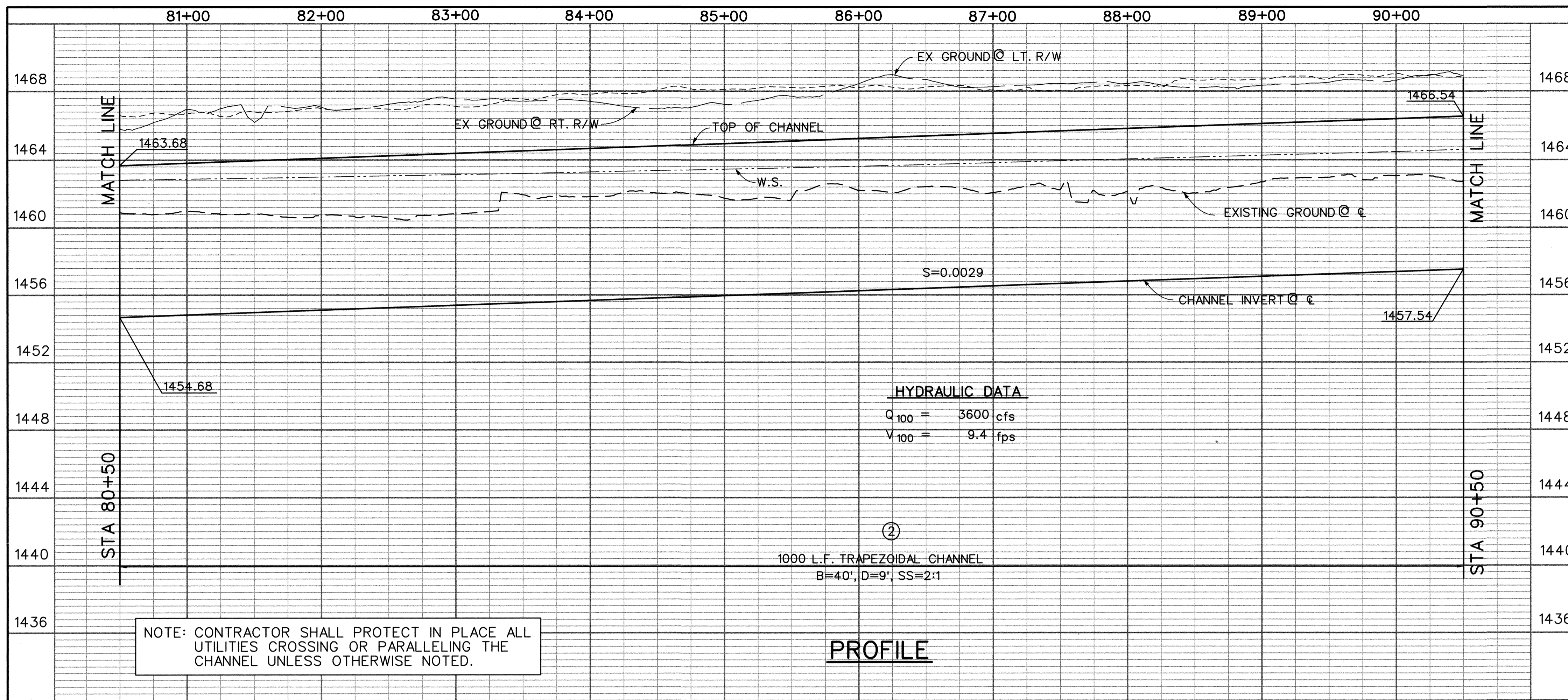
DESIGNED BY: MJG  
DRAWN BY: SC  
DATE DRAWN: JUNE 2003  
CHECKED BY: TH

RECOMMENDED FOR APPROVAL BY: *[Signature]*  
DESIGN ENGINEER R.E. NO. 30539  
DATE: 7/7/03

APPROVED BY: *[Signature]*  
CHIEF ENGINEER R.E. NO. 32336  
DATE: 2/24/04

PERRIS VALLEY CHANNEL  
LATERAL "B"  
STAGE 2  
STA 70+50 TO STA 80+50

PROJECT NO. 4-0-0009  
DRAWING NO. 4-791  
SHEET NO. 9 OF 62

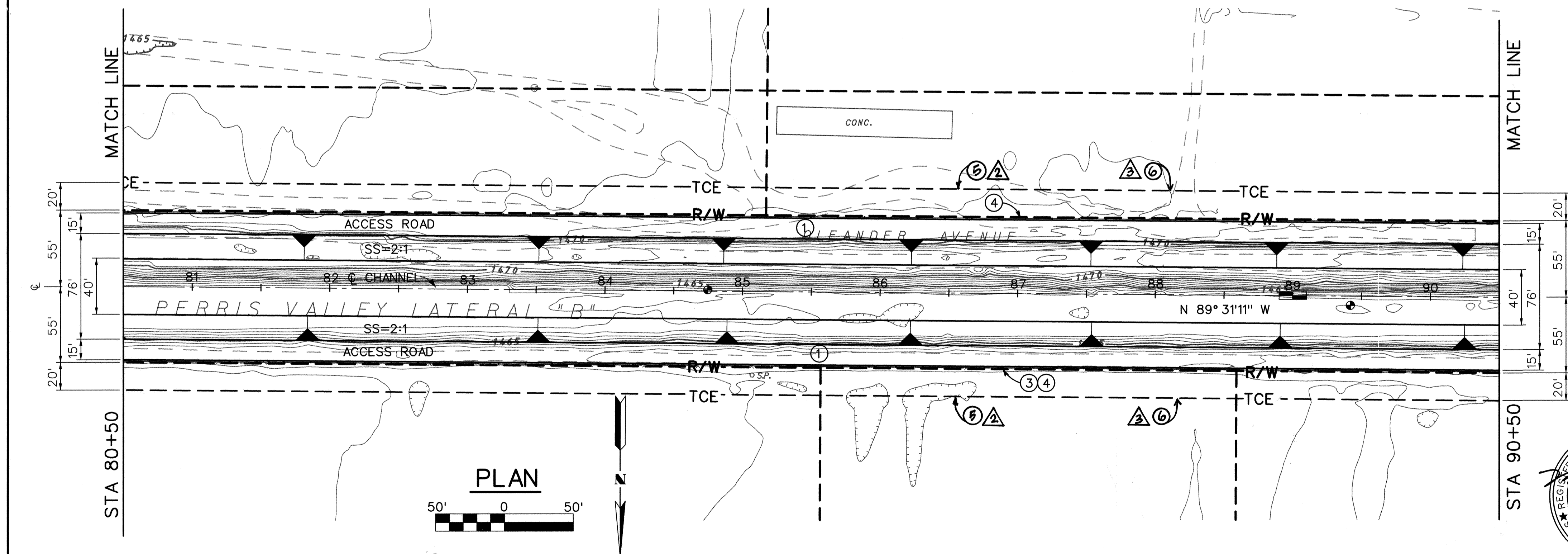


ACCESS ROAD DET. (A)

**AS BUILT**  
 APPROVED BY: *[Signature]*  
 DATE: 05/05/06

**NOTES**

- 1 CONSTRUCT 15' WIDE ACCESS ROAD PER DETAIL "A" HEREON. PLACE 3" CRUSHED SLAG AGGREGATE OR APPROVED EQUIVALENT
- 2 CONSTRUCT TRAPEZOIDAL CHANNEL PER TYPICAL SECTION SHOWN HEREON
- 3 REMOVE AND DISPOSE EXISTING FENCE
- 4 CONSTRUCT 6' CHAIN LINK FENCE PER RCFC&WCD STD. DWG. M801
- 5 ~~INSTALL TEMPORARY BARBED WIRE FENCE~~
- 6 ~~INSTALL TEMPORARY 4 STRANDS WIRE FENCE PER RCFC&WCD STD. DWG. M818 AND SECTION 20.5 OF THE DETAILED SPECIFICATIONS.~~



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 1700 Iowa Avenue, Suite 160  
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PERMANENT BENCH MARK B.M. NO. M-30 AT THE INTERSECTION OF PERRIS BLVD. AND OLEANDER (BRIDGE #5309); 24.0 FEET WEST OF PERRIS BLVD.; 5.5 FEET SOUTH OF THE NORTHERLY END OF A 12 INCH X 48 FOOT CONCRETE HEADWALL; A BRASS DISK SET IN THE TOP OF A CONCRETE HEADWALL AND MARKED M-30 1963 1464.219 EL.

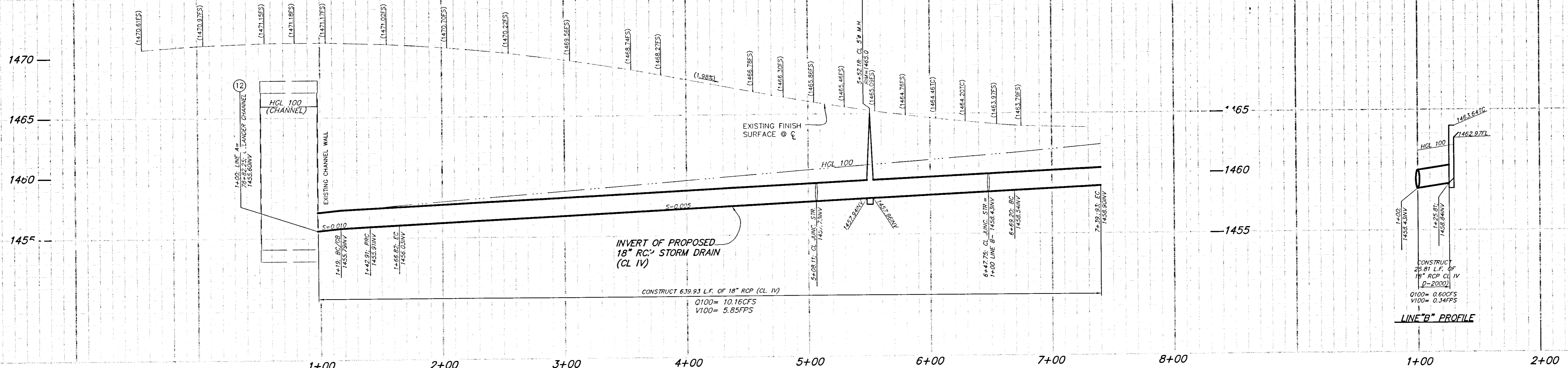
REF.	DESCRIPTION	APPR.	DATE
1	NOTE ADDED	cl	4/25/04
2	NOTE DELETED	cl	4/25/04
3	NOTE ADDED	cl	4/25/04

DESIGNED BY: MJG  
 DRAWN BY: SC  
 DATE DRAWN: JUNE 2003  
 CHECKED BY: TH

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT  
 RECOMMENDED FOR APPROVAL BY: *[Signature]*  
 DESIGN ENGINEER R.E. No. 30539  
 DATE: 2/7/03  
 APPROVED BY: *[Signature]*  
 CHIEF ENGINEER P.E. NO. 32336  
 DATE: 2/24/04

**PERRIS VALLEY CHANNEL LATERAL "B" STAGE 2**  
 STA 80+50 TO STA 90+50

PROJECT NO. 4-0-0009  
 DRAWING NO. 4-791  
 SHEET NO. 10 OF 62



CONSTRUCT  
25.81 L.F. OF  
18" RCP CL IV  
(D=2000)  
Q100= 0.60CFS  
V100= 0.34FPS  
**LINE "B" PROFILE**

PROFILE SCALES:  
HORZ: 1"=40'  
VERT: 1"=4'

**CONSTRUCTION NOTES:**

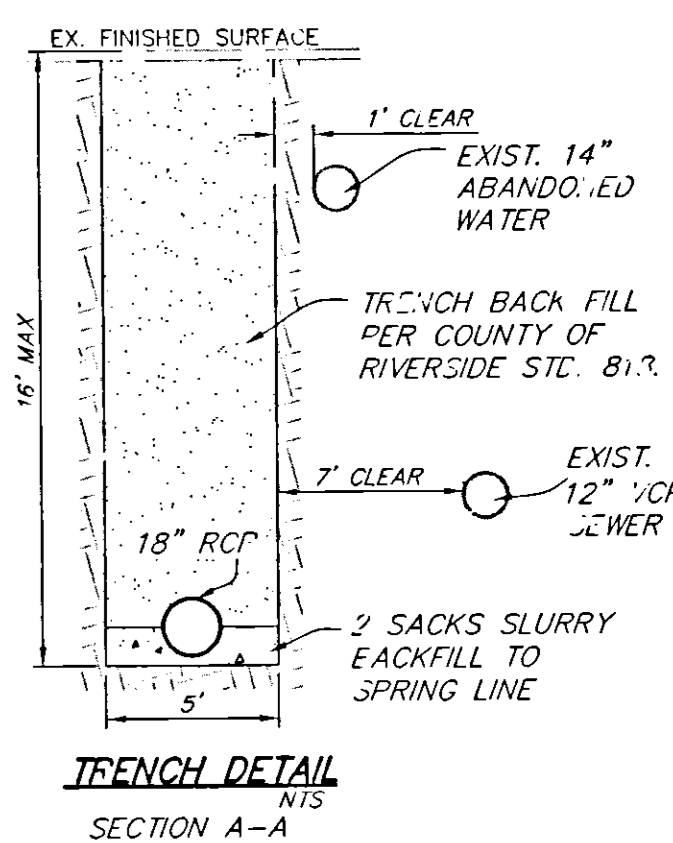
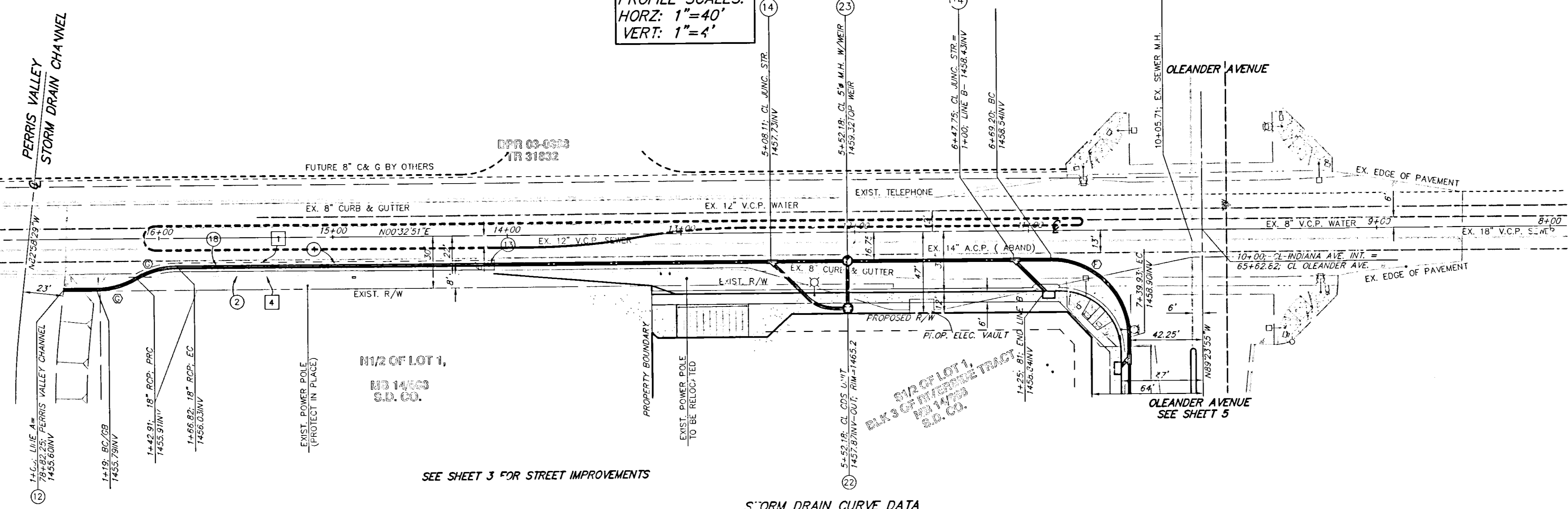
1. CONSTRUCT 18" A.C. OVER 1.8" C. 155 II A.B. R-VALUE TO BE VERIFIED BY SOILS ENGINEER.
2. CONSTRUCT JUNCTION STRUCTURE PER DETAIL CV SHEET 5.
3. CONSTRUCT 18" RCP STORM DRAIN (CL IV).
4. CONSTRUCT JUNCTION STRUCTURE PER RCP - STD. DWG. NO. 2.
5. CONSTRUCT TRENCH BACK FILL PER CITY OF RIVERSIDE STD. 818.
6. CONSTRUCT 15" PMSU20-25 PER DETAIL 2N SHEET 5.
7. CONSTRUCT PRE-CAST MANHOLE PER RIVERSIDE COUNTY STD. 606. (MODIFIED FOR 5")

**REMOVAL NOTES:**

1. SAWCUT AND REMOVE A.C. PAVEMENT.
4. REMOVE EXISTING CURB & GUTTER.

**LEGEND**

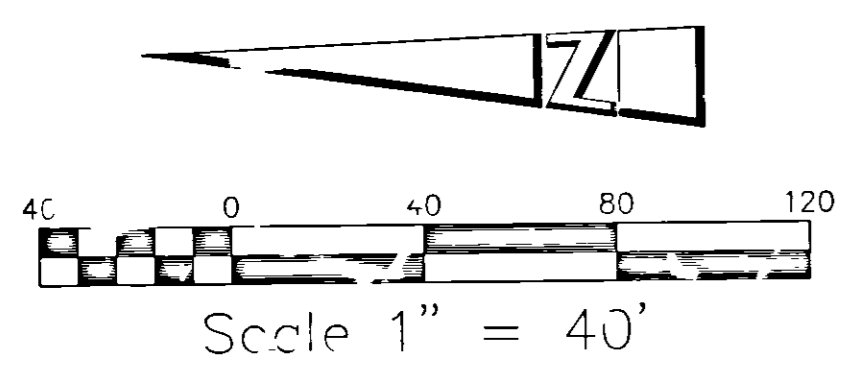
- ASPHALT PAVING
- REMOVAL



**STORM DRAIN CURVE DATA**

PC	PT	DELTA	RADIUS	LENGTH	TAN ZENIT
14+00	14+42.25	90°33'14"	45.00'	70.71'	4.04
14+42.25	14+87.75	30°26'19"	45.00'	23.91'	12.24
14+87.75	15+00.00	45°00'00"	22.50'	17.67'	9.32

- NOTE:**
1. CITY ENGINEER TO DETERMINE LIMIT OF PAVEMENT REMOVAL AT TIME OF CONSTRUCTION.
  2. ALL WORK WITHIN THE FLOOD CONTROL RIGHT-OF-WAY SHALL REQUIRE A PERMIT FROM RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT.



DESIGNED UNDER THE SUPERVISION OF:  
*Kevin J. Richer*  
KEVIN J. RICHER  
R.C.E. 43714 LIC. EXP. 03/31/07

**LAND DEVELOPMENT DESIGN CORPORATION**  
2312 East Chilaria, Ste. F  
Ontario, CA 91731  
(909) 30-1468  
FAX (909) 930-1468  
PLANNING CIVIL SURVEYING

DATE: 08/05/05  
DATE: 08/05/05  
DATE: 08/05/05  
DATE: 08/05/05

DRAWN BY: KJR  
DESIGN BY: KJR  
CHECK BY: KJR  
RECOMMENDED BY:

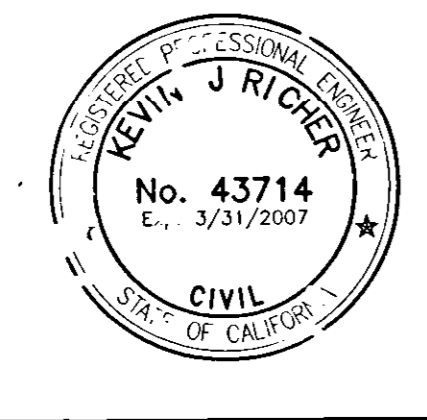
BENCHMARK:  
AT THE INTERSECTION OF PERRIS BLVD. AND OLEANDER AVENUE (BRIDGE #5309), 24.0 FEET WEST OF PERRIS BLVD., 5.0 FEET SOUTH OF THE NORTHERLY END OF A 12 INCH X 48 FOOT CONCRETE HEADWALL. A BRASS DISK SET IN THE TOP OF A CONCRETE HEADWALL AND MARKED M-30 1962.  
ELEVATION= 1464.213

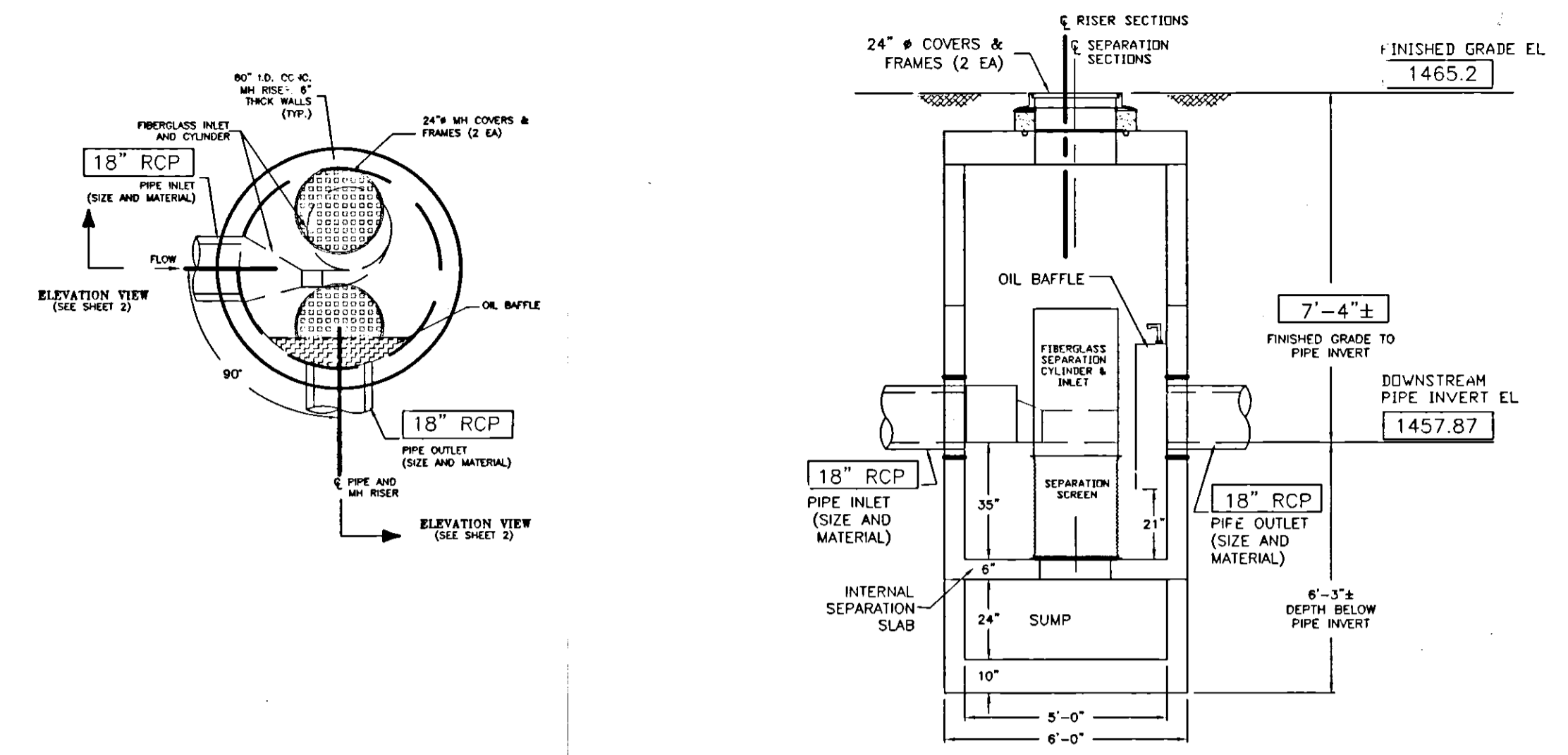
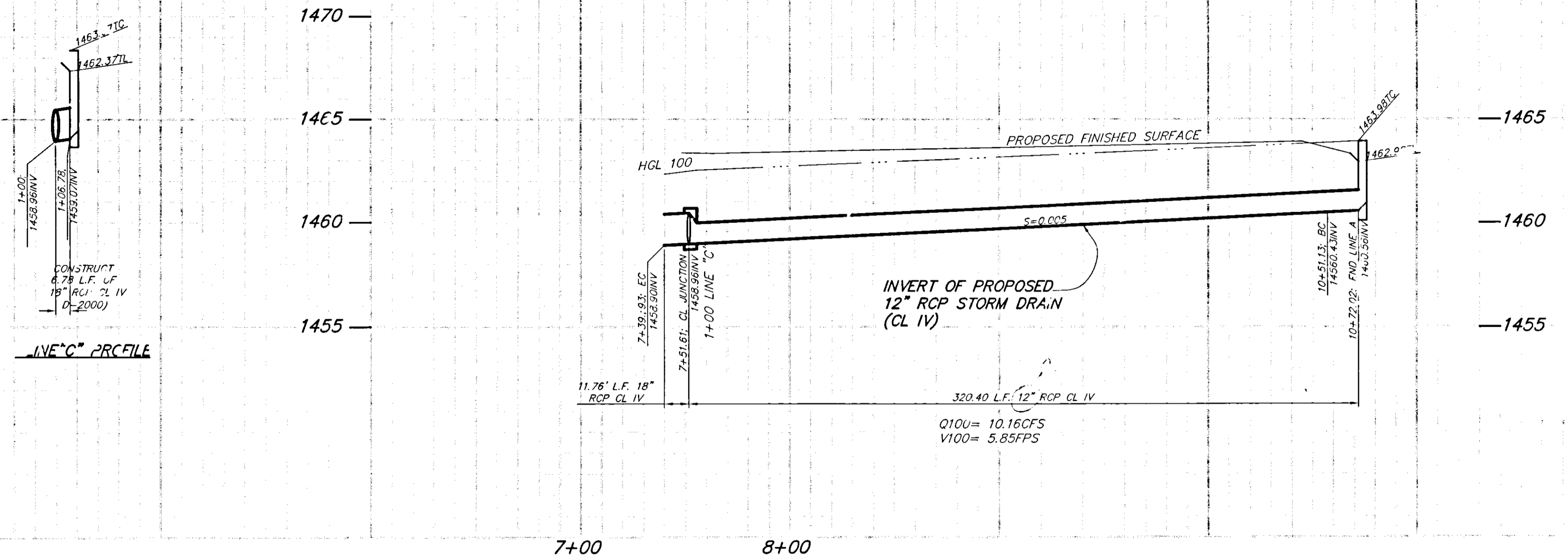
CITY OF PERRIS  
APPROVED BY: *[Signature]*  
CITY ENGINEER  
DATE: 8-5-05

STORM DRAIN PLAN AND PROFILE  
**S1/2 LOT 1, BLK 3 RIVERSIDE TR. MB 14/668 S.D. C.O.**  
**OLEANDER AVENUE**

SHEET NO. 1  
OF 6 SHEETS  
CITY FILE NO. 13-795

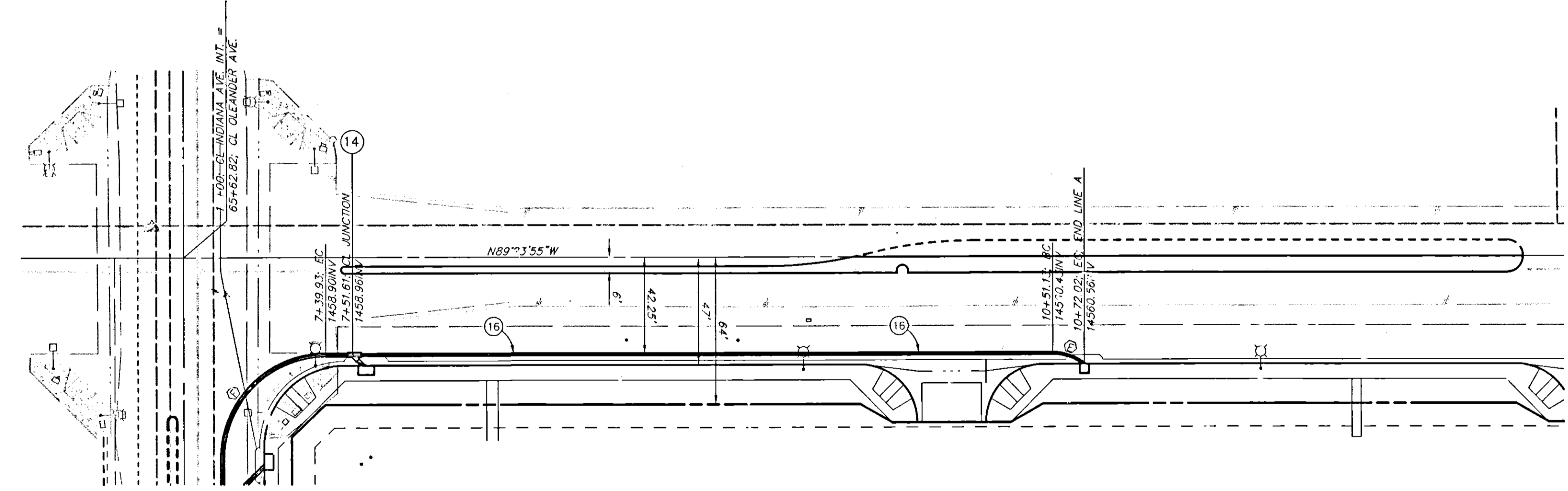
**DIGALERT**  
DIAL TOLL FREE  
1-800-227-2600  
AT LEAST TWO DAYS BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA





- CONSTRUCTION NOTES:**
- 1. CONSTRUCT 16" RCP STORM DRAIN (CL. IV).
  - 2. CONSTRUCT 6" DIA. MANHOLE PER R.C.F.C.W.D. STD. DWG. NO. 2.
  - 3. CONSTRUCT 12" RCP STORM DRAIN (CL. IV).

**PROFILE SCALES:**  
 HORZ: 1"=40'  
 VERT: 1"=4'

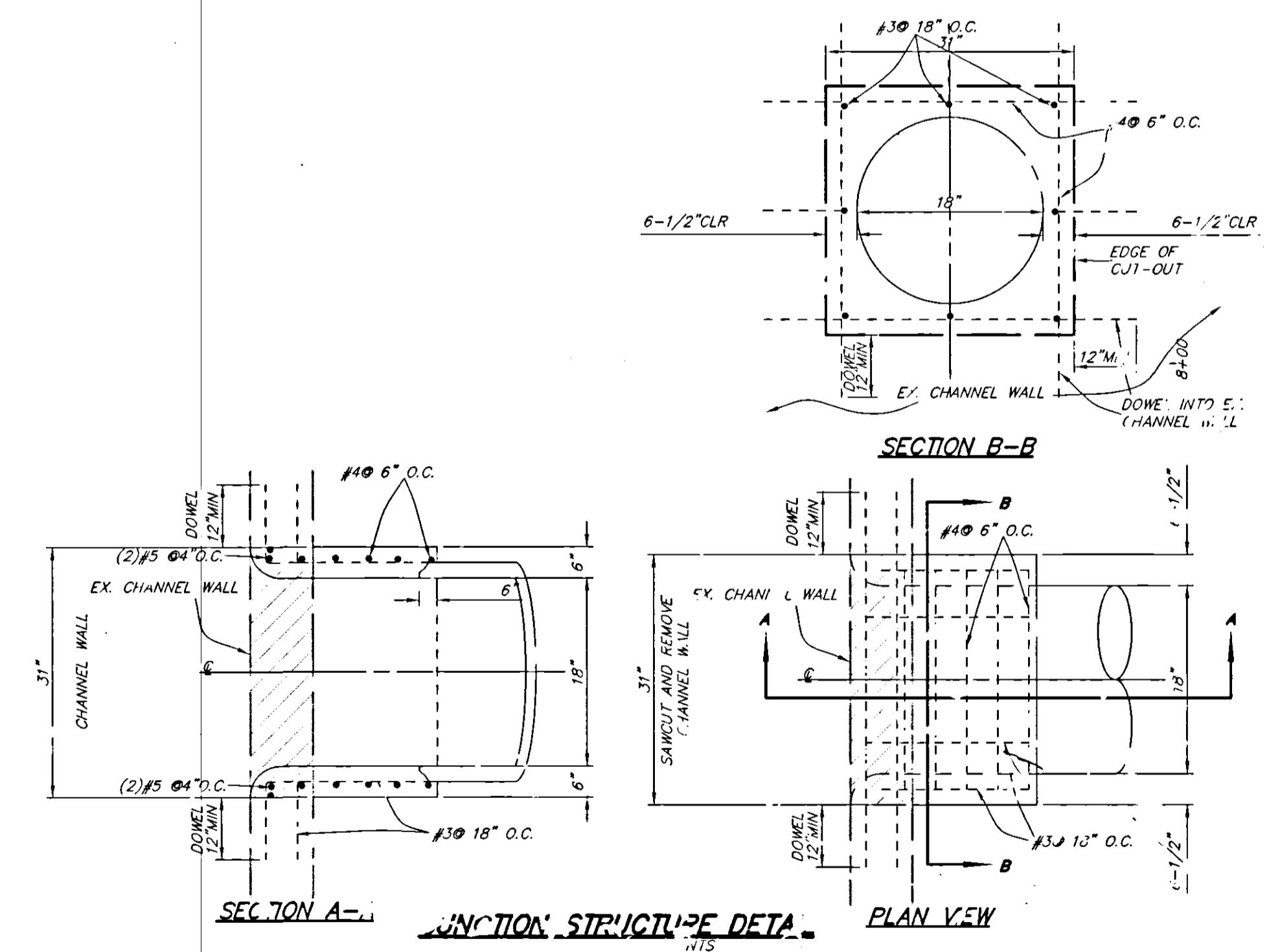


**STORM DRAIN CURVE DATA**

CURVE	DELTA	RADIUS	LENGTH	TANGENT
1	37°55'06"	22.50'	14.89'	7.71'
2	20°37'14"	45.00'	70.71'	45.04'

**OLEANDER AVENUE**

**NOTE:**  
 ALL WORK WITHIN THE FLOOD CONTROL RIGHT-OF-WAY SHALL REQUIRE A PERMIT FROM RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT.



**LEGEND**

- ASPHALT PAVING
- REMOVAL

Scale 1" = 40'

**DIGALERT**  
 DIAL TOLL FREE  
 1-800-227-5000  
 AT LEAST TWO DAYS BEFORE YOU DIG  
 UNIFORM CIVIL ALERT OF SOUTHERN CALIFORNIA



PREPARED UNDER THE SUPERVISION OF:  
 KEVIN J. RICHER  
 P.C.E. 43714 Lic. Exp. 03/31/07  
 DATE: 2/23/06

**LAND DEVELOPMENT DESIGN CORPORATION**  
 3313 East 7th Street, Ste. F  
 Ontario, CA 91761  
 (909) 930-1466  
 FAX (909) 930-1468  
 PLANNING CIVIL ENGINEERING

DRAWN BY: KJR	DATE: 08/05/05
DESIGN BY: KJR	DATE: 08/05/05
CHECK BY: KJR	DATE: 08/02/05
RECOMMENDED BY:	DATE:

BENCH MARK:	AT THE INTERSECTION OF PLORIS BLD. AND OLEANDER (BRIDGE #5309), 24.0 FEET WEST OF PERRIS RD., 5.5 FEET SOUTH OF THE NORTHERLY END OF A 12 INCH DIAMETER CONCRETE HEADWALL, 2 3/8" DISK SET IN THE TOP OF A CONCRETE HEADWALL AND MARKED M-30 19'
ELEVATION:	1464.20

CITY OF PERRIS  
 APPROVED BY: [Signature]  
 DATE:

STORM DRAIN PLAN AND PROFILE  
 S1/2 OF LOT 1, BLK 3  
 RIVERSIDE TR.  
 MB 14/668 S.D. C.O.  
**OLEANDER AVENUE**

5  
 P8-795  
 P-315