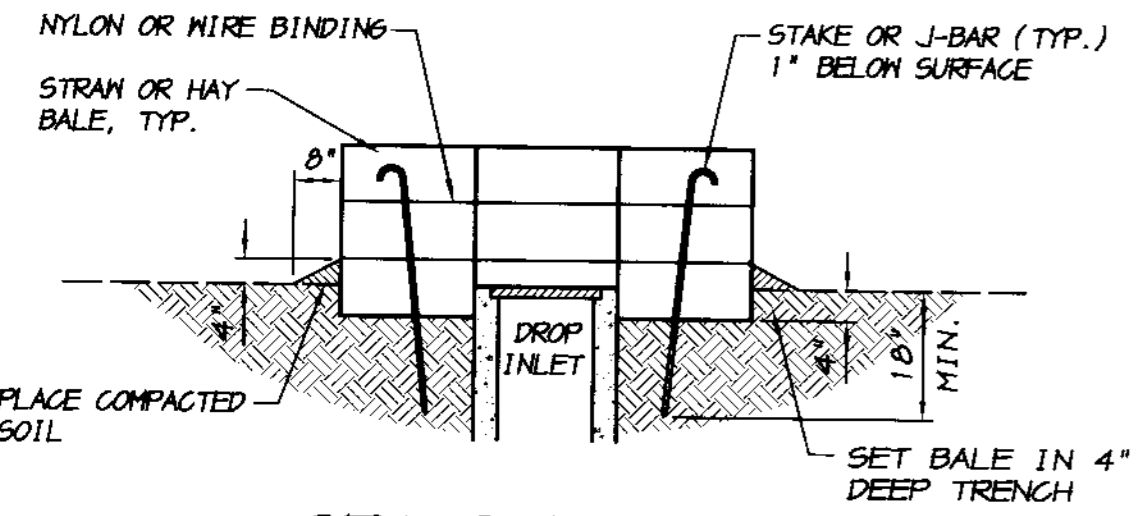


PLAN VIEW



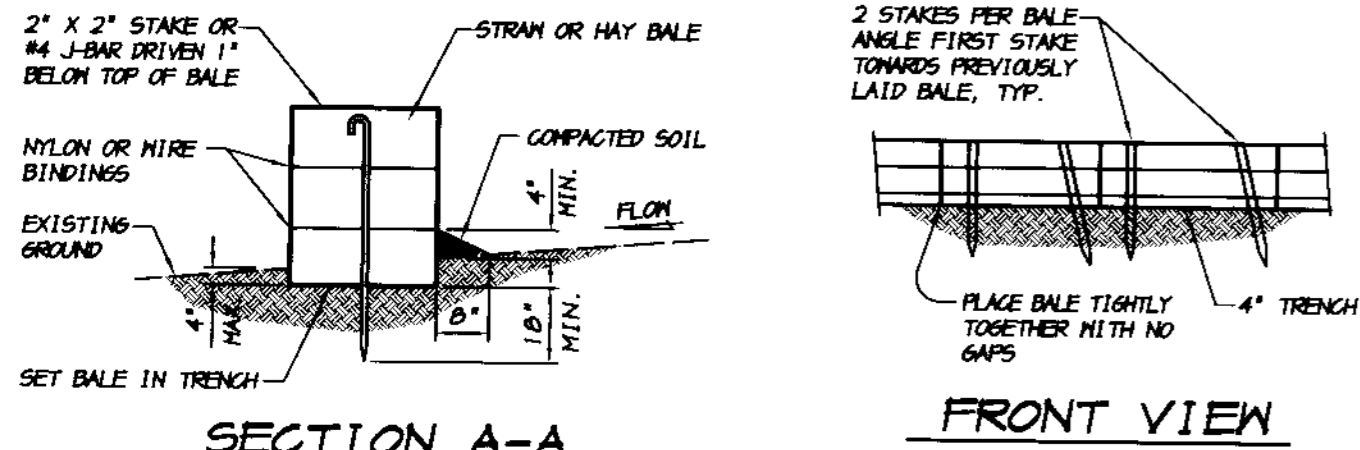
SECTION A-A

NOTES

- BALES SHALL BE PLACED TIGHTLY ABUTTED TOGETHER IN A TRENCH EXCAVATED A MINIMUM OF 4 INCHES BELOW THE INLET. BALES SHALL BE PLACED SO THAT BINDINGS ARE HORIZONTAL.
- EACH BALE SHALL BE ANCHORED BY A MINIMUM OF TWO 2" x 2" STAKES OR TWO #4 J-BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND A MINIMUM DEPTH OF 18". TOPS OF STAKES OR J-BARS SHALL BE COUNTERSUNK A MINIMUM OF 1" BELOW THE TOP OF THE BALE.
- OUTER PERIMETER OF THE BALES SHALL BE BACK FILLED AND COMPACTED TO A DEPTH OF APPROXIMATELY 4 INCHES WITH EXCAVATED MATERIAL.
- CONTRACTOR SHALL INSPECT BALES WEEKLY AND AFTER EACH RAINFALL TO DETERMINE IF REPAIR OR SEDIMENT REMOVAL IS REQUIRED. SEDIMENT SHALL BE REMOVED WHEN IT HAS BUILT UP TO A DEPTH OF APPROXIMATELY 6". BALES SHALL BE REPLACED WHEN THEY HAVE BEEN DAMAGED, COLLAPSED OR DECOMPOSED.

STRAW BALE INLET FILTER

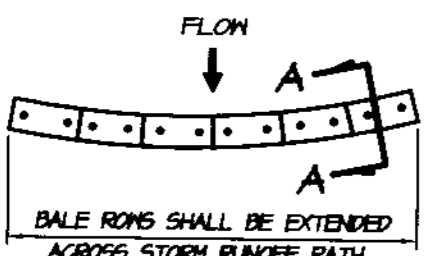
NO SCALE



SECTION A-A

FRONT VIEW

STRAW BALE ALIGNMENT

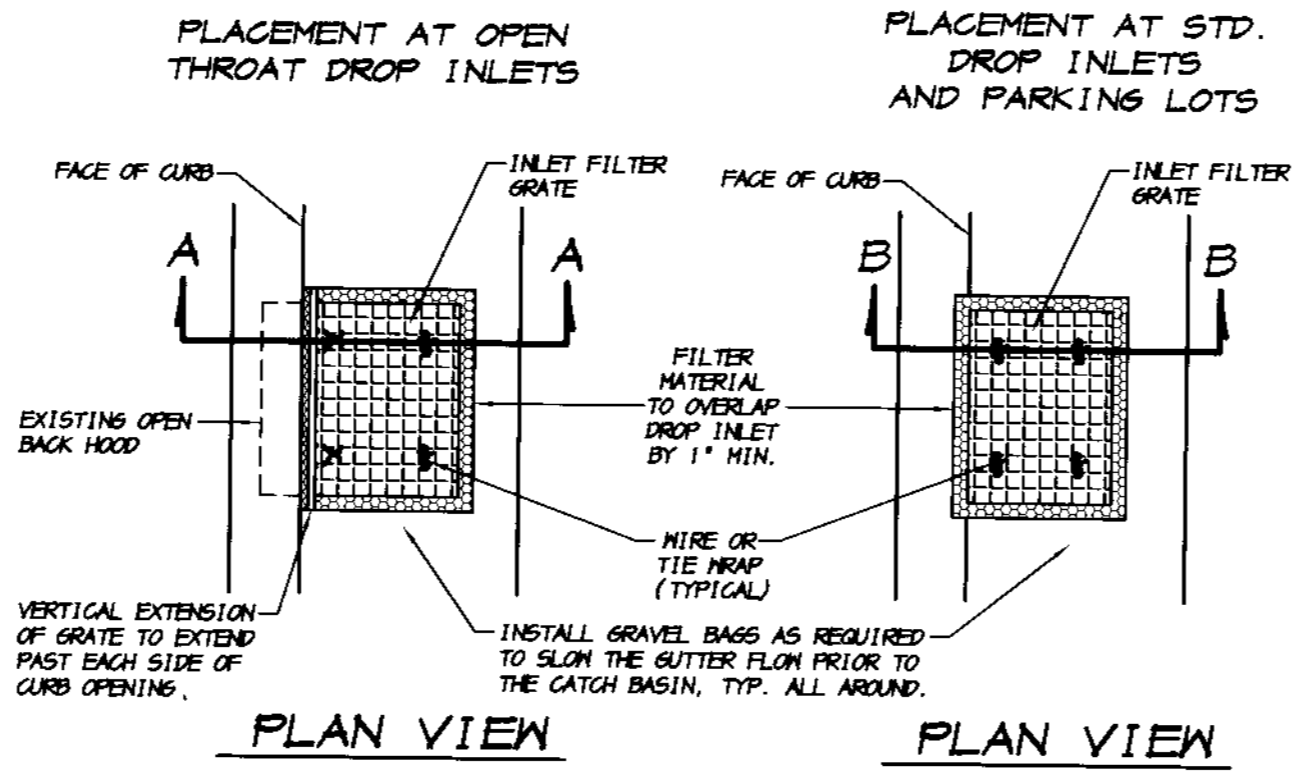


NOTES

- PLACE BALES IN 4 INCH DEEP TRENCH ALONG THE CONTOUR OF THE SLOPE IN THE SHAPE OF AN ARC WITH THE ENDS UPHILL OF THE ARC'S CENTER. BALES SHALL BE PLACED SO THAT BINDINGS ARE HORIZONTAL.
- BALES SHALL BE ANCHORED BY TWO 2" x 2" STAKES OR #4 J-BAR DRIVEN THROUGH THE BALE AND IN TO THE GROUND A MINIMUM DEPTH OF 18 INCHES. STAKES OR J-BARS SHALL BE DRIVEN 1 INCH OR MORE BELOW THE TOP OF THE BALE. THE FIRST STAKE OR J-BAR IN EACH BALE SHALL BE DRIVEN AT AN ANGLE TOWARDS THE PREVIOUSLY LAID BALE TO FORCE THE BALES TIGHTLY ABUTTED TOGETHER.
- AFTER BALES ARE STAKED IN PLACE, EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE UPHILL SIDE TO A MINIMUM HEIGHT OF 4 INCHES.
- CONTRACTOR SHALL INSPECT BALES WEEKLY AND AFTER EACH RAINFALL. REPAIRS SHALL BE MADE AS NECESSARY AND SEDIMENT SHALL BE REMOVED WHEN IT HAS ACCUMULATED TO A DEPTH OF 6 INCHES. BALES SHALL BE REPLACED WHEN THEY HAVE BEEN DAMAGED, COLLAPSED OR DECOMPOSED.

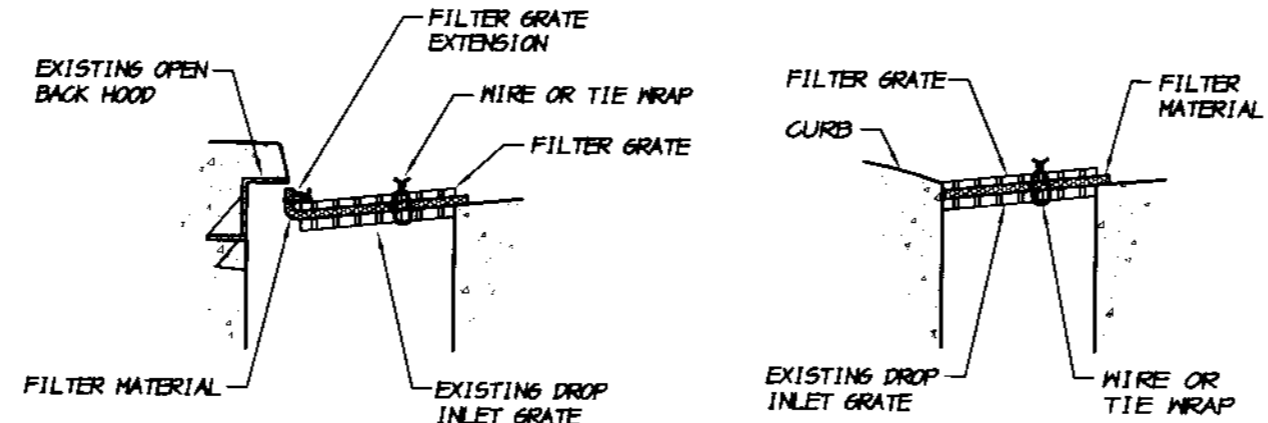
SILT FENCE STRAW BALE BARRIER

NO SCALE



PLAN VIEW

PLAN VIEW



SECTION "A-A"

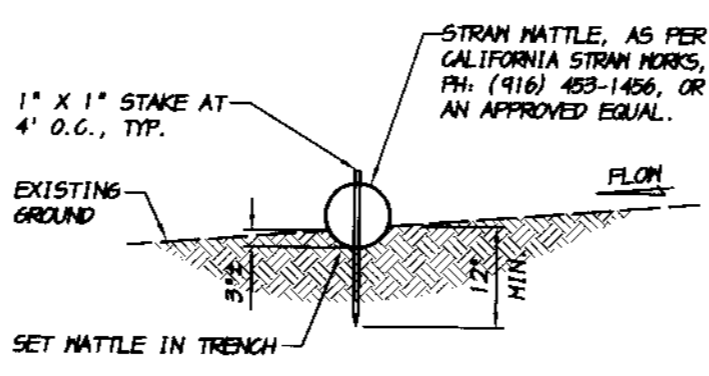
SECTION "B-B"

NOTES

- THE MAXIMUM DRAINAGE AREA PER FILTER SHALL BE NO MORE THAN 2 ACRES.
- THE FILTER PAD SHALL BE 1 INCH THICK CLEANABLE POLYESTER FIBER AND ACRYLIC LATEX RESIN OR APPROVED EQUAL. THE FILTER PAD SHALL OVERLAP DROP INLET ON ALL SIDES BY A MINIMUM OF 1 INCH.
- THE FILTER GRATE SHALL BE MADE OF EXPANDED METAL OF REBAR AND BE OF SUFFICIENT STRENGTH TO PREVENT BENDING WHEN DRIVEN OVER. GRATE MATERIAL SHALL NOT EXCEED 0.5" THICK. THE GRATE SHALL HAVE A MINIMUM 60% OPEN AREA. GRATES USED AT TYPE B AND E INLETS SHALL HAVE A VERTICAL EXTENSION TO COVER THE CURB OPENING. THE FILTER GRATE SHALL BE THE SAME SIZE AS THE DROP INLET GRATE.
- THE FILTER PAD AND GRATE SHALL BE SECURELY ATTACHED TO THE DROP INLET BY MIRE OR TIE-WRAPPS.
- INLET FILTERS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL. REPAIRS AND SEDIMENT AND DEBRIS REMOVAL SHALL BE MADE AS NECESSARY.
- INLET FILTERS SHALL BE OF THE PEA GRAVEL BAG AND FILTER CLOTH VARIETY.

STORM DRAIN INLET FILTER

NO SCALE



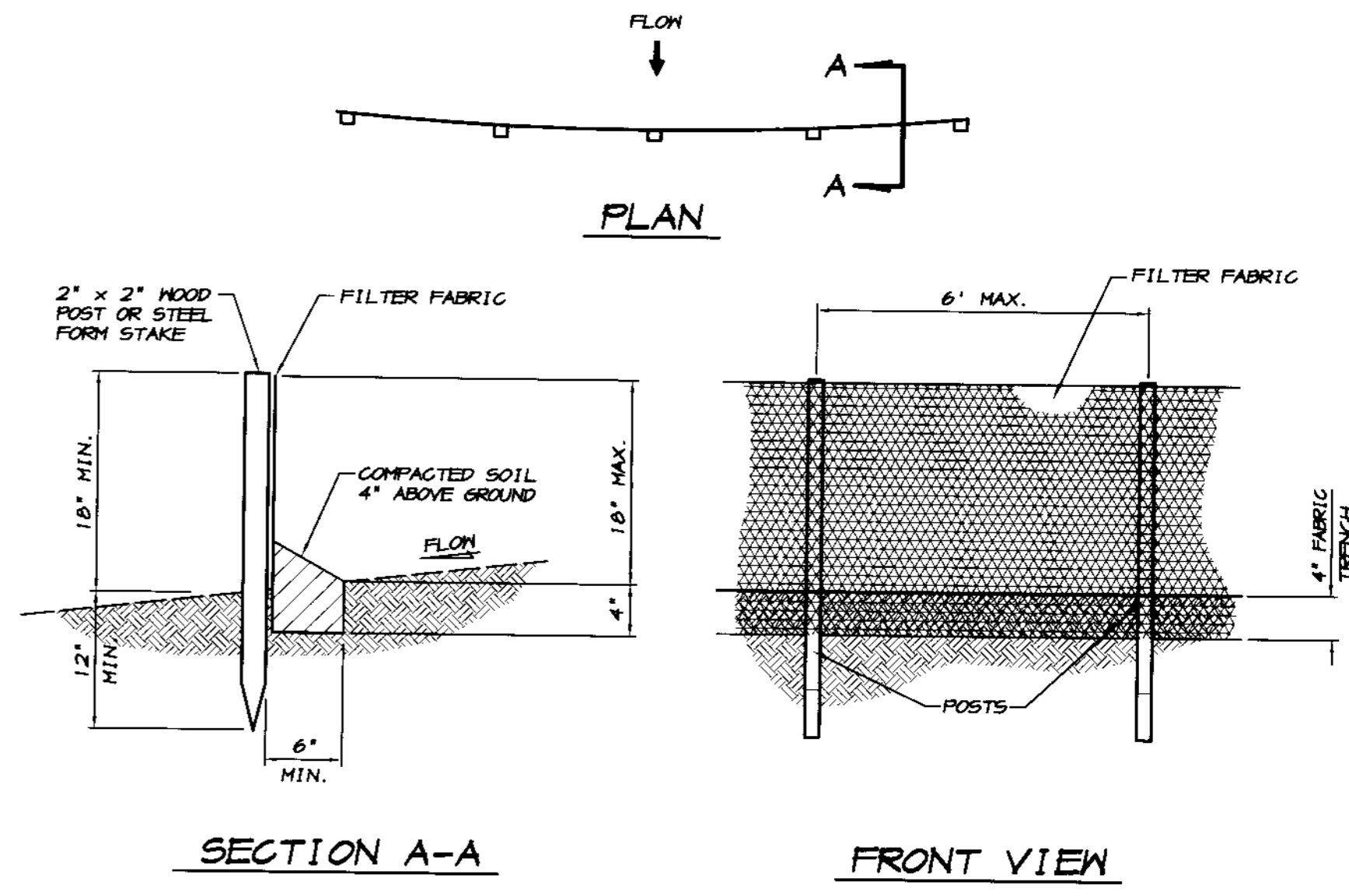
SECTION

NOTE

- STRAIN MATTLES MAY BE USED IN PLACE OF SILT FENCE.
- CONTRACTOR SHALL INSPECT MATTLES WEEKLY AND AFTER EACH RAINFALL. REPAIRS SHALL BE MADE AS NECESSARY AND SEDIMENT SHALL BE REMOVED WHEN IT HAS ACCUMULATED TO A DEPTH OF 4 INCHES. MATTLES SHALL BE REPLACED WHEN THEY HAVE BEEN DAMAGED, COLLAPSED OR DECOMPOSED.

STRAIN MATTLE DETAIL

NO SCALE



SECTION A-A

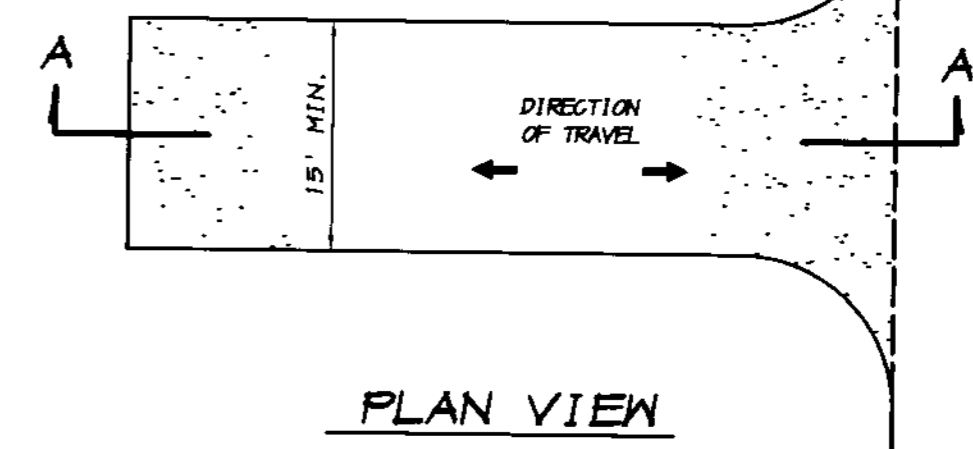
FRONT VIEW

NOTES

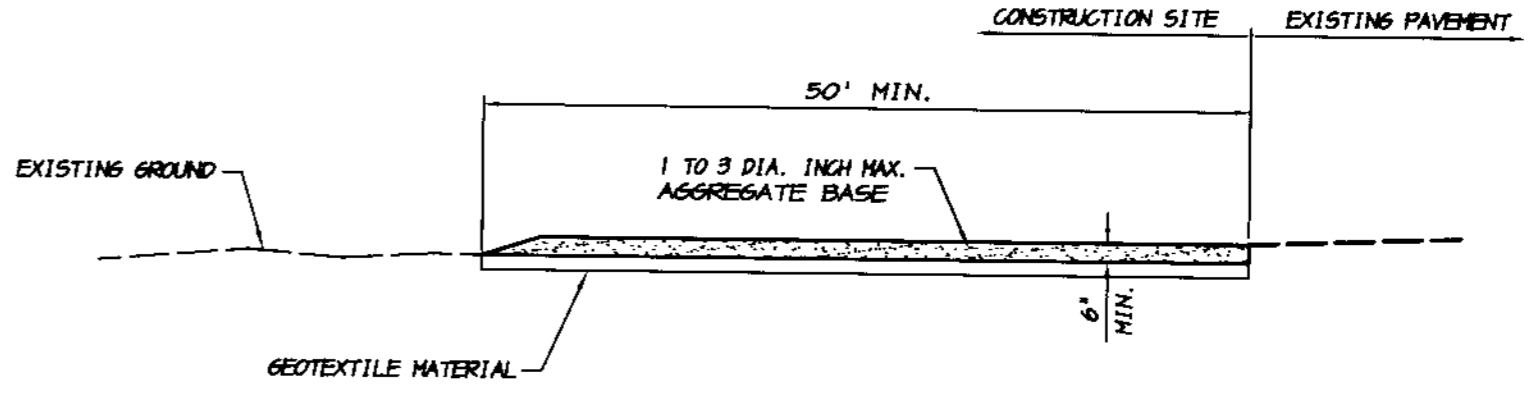
- FILTER BARRIER SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS THE EXPECTED FLOW PATH AND AS APPROVED BY THE ADMINISTRATOR.
- FILTER FABRIC SHALL BE PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN WITH A MINIMUM TENSILE STRENGTH OF 50 LBS. PER LINEAR FOOT AT 20 PERCENT MAXIMUM ELONGATION AND CONTAINING ULTRAVIOLET INHIBITORS. FILTER FABRIC SHALL RETAIN MINIMUM OF 85% OF THE SOIL, BY HEIGHT, BASED ON SIEVE ANALYSIS, BUT IS NOT FINER THAN AN EQUIVALENT OPENING SIZE OF 70.
- SUPPORT POSTS SHALL BE A MINIMUM 30 INCHES LONG 2" x 2" WOOD POSTS OR STEEL FORM STAKES DRIVEN A MINIMUM OF 12 INCHES INTO THE GROUND. POSTS SHALL BE SPACED A MAXIMUM 6 FEET APART.
- A 4 INCH FABRIC TRENCH SHALL BE EXCAVATED ALONG THE UPHILL SIDE OF FILTER BARRIER POSTS. THE BOTTOM EDGE OF THE FABRIC SHALL EXTEND TO AND ACROSS THE BOTTOM OF THE TRENCH. THE TRENCH SHALL BE BACK FILLED TO 4 INCHES ABOVE GROUND AND COMPACTED TO BURY AND SECURE THE BOTTOM OF THE FILTER FABRIC.
- CONTRACTOR SHALL MAKE INSPECTIONS WEEKLY DURING THE WET SEASON, MONTHLY DURING THE DRY SEASON AND IMMEDIATELY AFTER EACH RAINFALL TO DETERMINE IF REPAIRS AND SEDIMENT REMOVAL IS REQUIRED. SEDIMENT SHALL BE REMOVED BEFORE IT HAS REACHED ONE THIRD THE HEIGHT OF THE FILTER FABRIC.

SILT FENCE FILTER BARRIER

NO SCALE



PLAN VIEW



SECTION A-A

NOTES

- STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 1" TO 3" MAX. AGGREGATE BASE MATERIAL CONFORMING TO CITY OR COUNTY STANDARDS. MATERIAL SHALL BE PLACED TO A MINIMUM THICKNESS OF 6". THE METHOD OF PLACING, SPREADING AND COMPACTING AGGREGATE BASE MATERIAL SHALL CONFORM TO SECTION 26 OF THE STATE SPECIFICATIONS.
- LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 50 FEET. WIDTH SHALL BE A MIN. OF 15 FEET OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE ANGLE TURNING RADII.
- THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH AGGREGATE BASE MATERIAL.
- ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL. WITH MAINTENANCE PROVIDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

STABILIZED CONSTRUCTION SITE ACCESS

NO SCALE

RECORD DRAWING

Corrections By: PC  
 No Changes By: PC  
 Date: 3/12/2008  
 Any Person Using This Drawing Should Verify  
 Accuracy of Information and The Use of Work

REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
 Surveying • Design • Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3590 FAX: (209) 545-3875

TRACT NO. 3475  
**EROSION CONTROL DETAILS**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

**PC**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA  
 No. 61619  
 Exp. 6-30-07

DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: NOTED  
 DWG: 296-EROS  
 CHECKED: KH  
 JOB # 296-04  
 SHEET **45** OF **45**

SCALE: 1" = 50'

PARCEL A  
PM 6-108

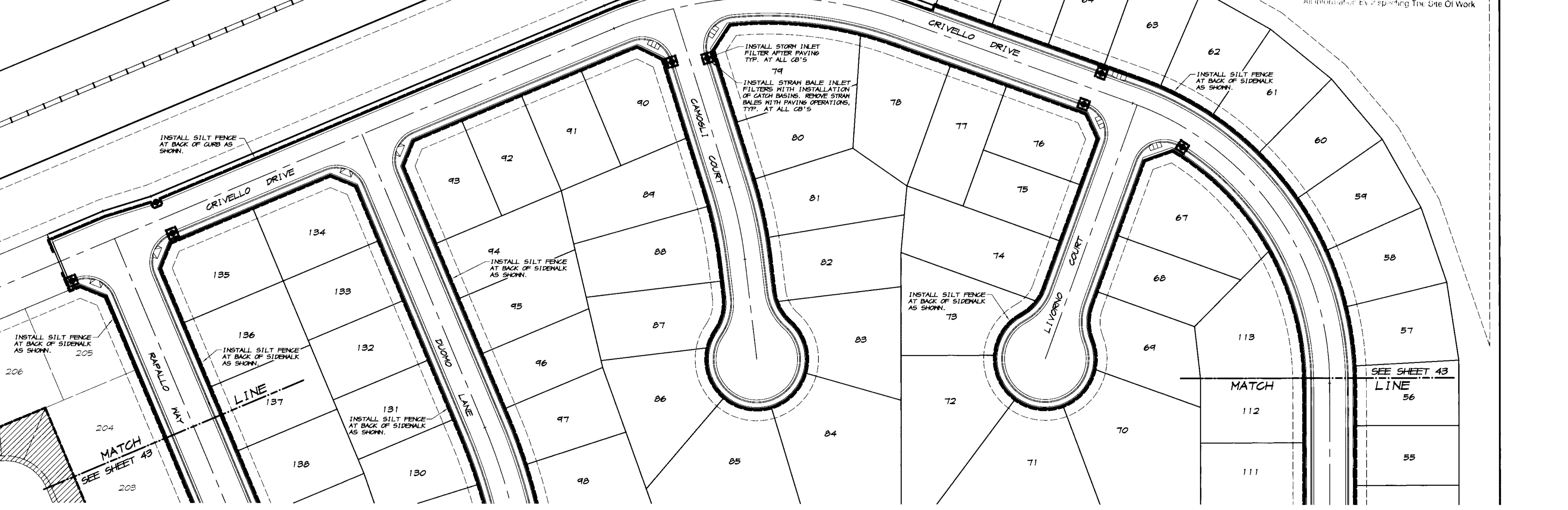
A. P. N.  
241-41-41

STATE HIGHWAY ROUTE 120

UNION PACIFIC RAILROAD

### RECORD DRAWING

Correction by  
No. of sheets 2  
Date 7/12/2008  
All information on this drawing should be verified by the contractor at the site of work.



REVISION	DATE	DESCRIPTION

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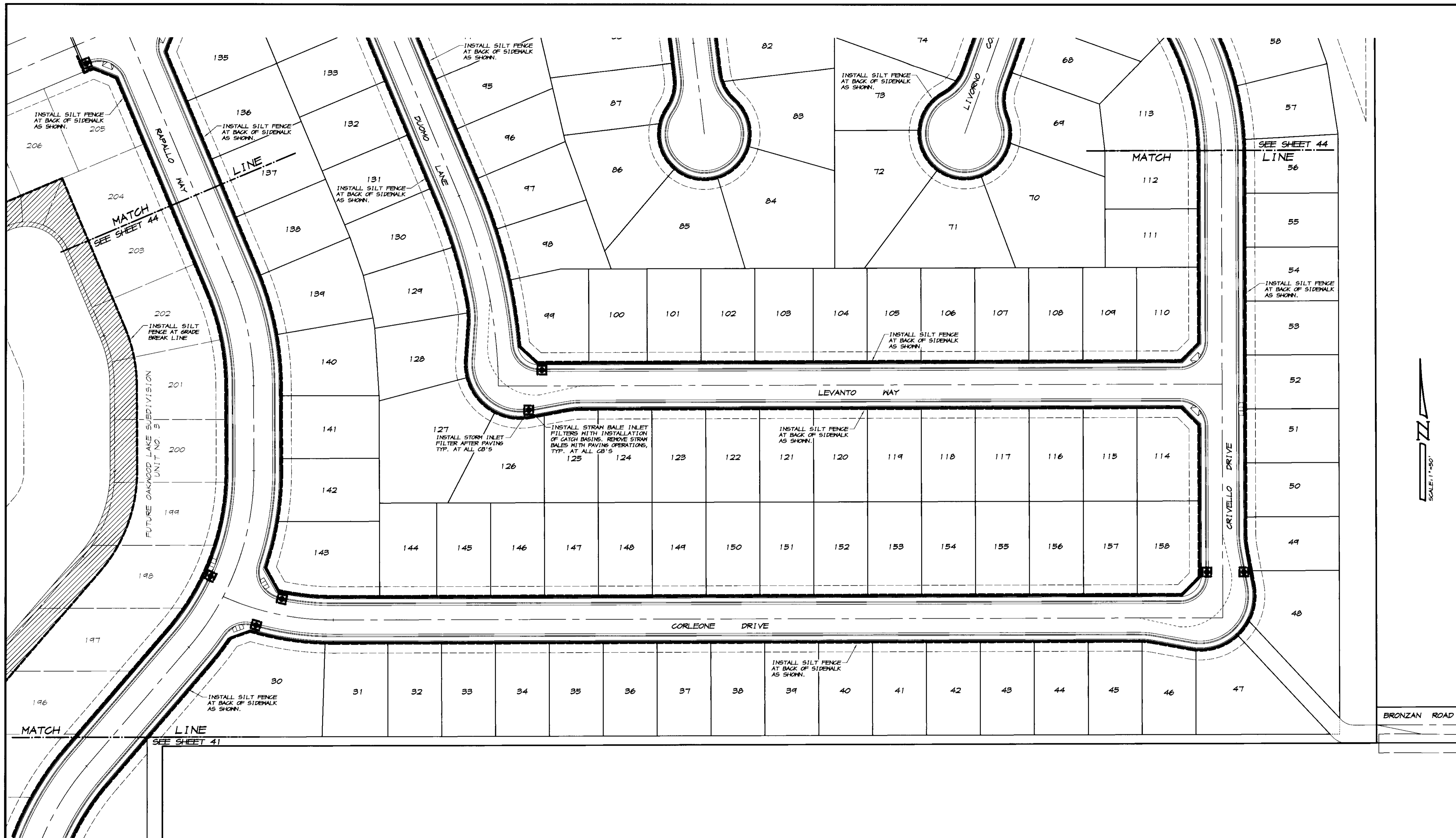
TRACT NO. 3475  
**EROSION CONTROL PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

*R. Carroll*  
 RYAN CARRELL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126  
 REGISTERED PROFESSIONAL ENGINEER  
 RYAN D. CARRELL  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

DRAWN BY: J. S. H.  
 DATE: 6/14/05  
 SCALE: 1" = 50'  
 DWG: 246-EROS  
 CHECKED: KN  
 JOB #: 246A-04

SHEET  
**44**  
 OF  
**45**

SU 3871



REVISION	DATE	DESCRIPTION

ASSOCIATED ENGINEERING, INC.  
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TRACT NO. 3475  
**EROSION CONTROL PLAN**  
 OAKWOOD LAKE SUBDIVISION, UNIT 2  
 SAN JOAQUIN COUNTY CALIFORNIA

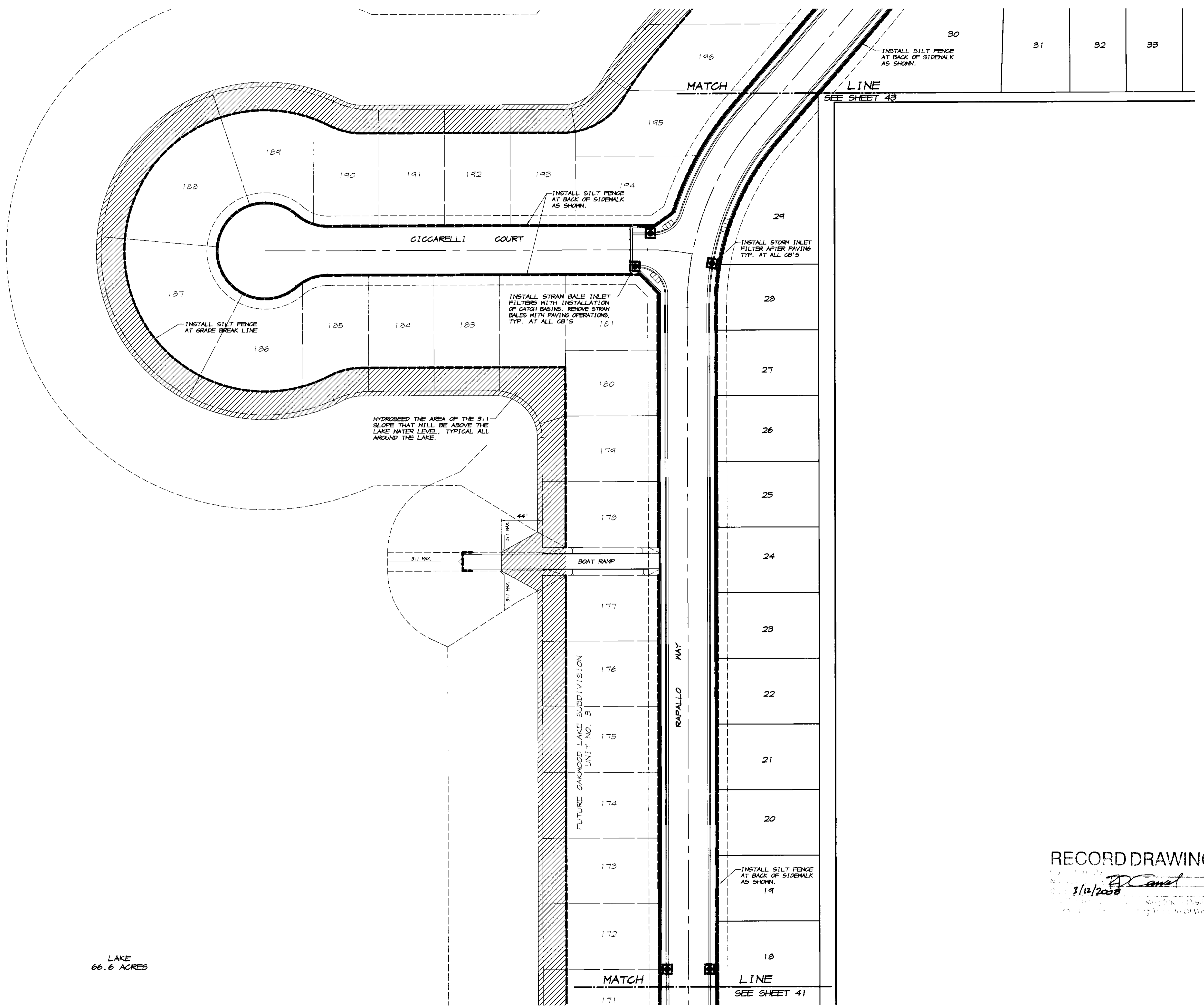
**RR Canal**  
 RYAN CARREL, R.C.E. 61619  
 DAVEE INGLAND, R.C.E. 99006  
 DAVE SKIDMORE, L.S. 7126

**RECORD DRAWING**  
 Completed by: RR Canal  
 Date: 6/14/05  
 Date: 3/12/2008  
 Any person using this drawing shall verify the accuracy of the information at the Site Of Work

DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: 1"=50'  
 DWG: 296-EROS  
 CHECKED: KH  
 JOB #: 296A-04

SHEET **43**  
 OF 45

SCALE 1" = 50'



LAKE  
66.6 ACRES

30	31	32	33
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REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
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TRACT NO. 9475  
**EROSION CONTROL PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

**DCand**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126



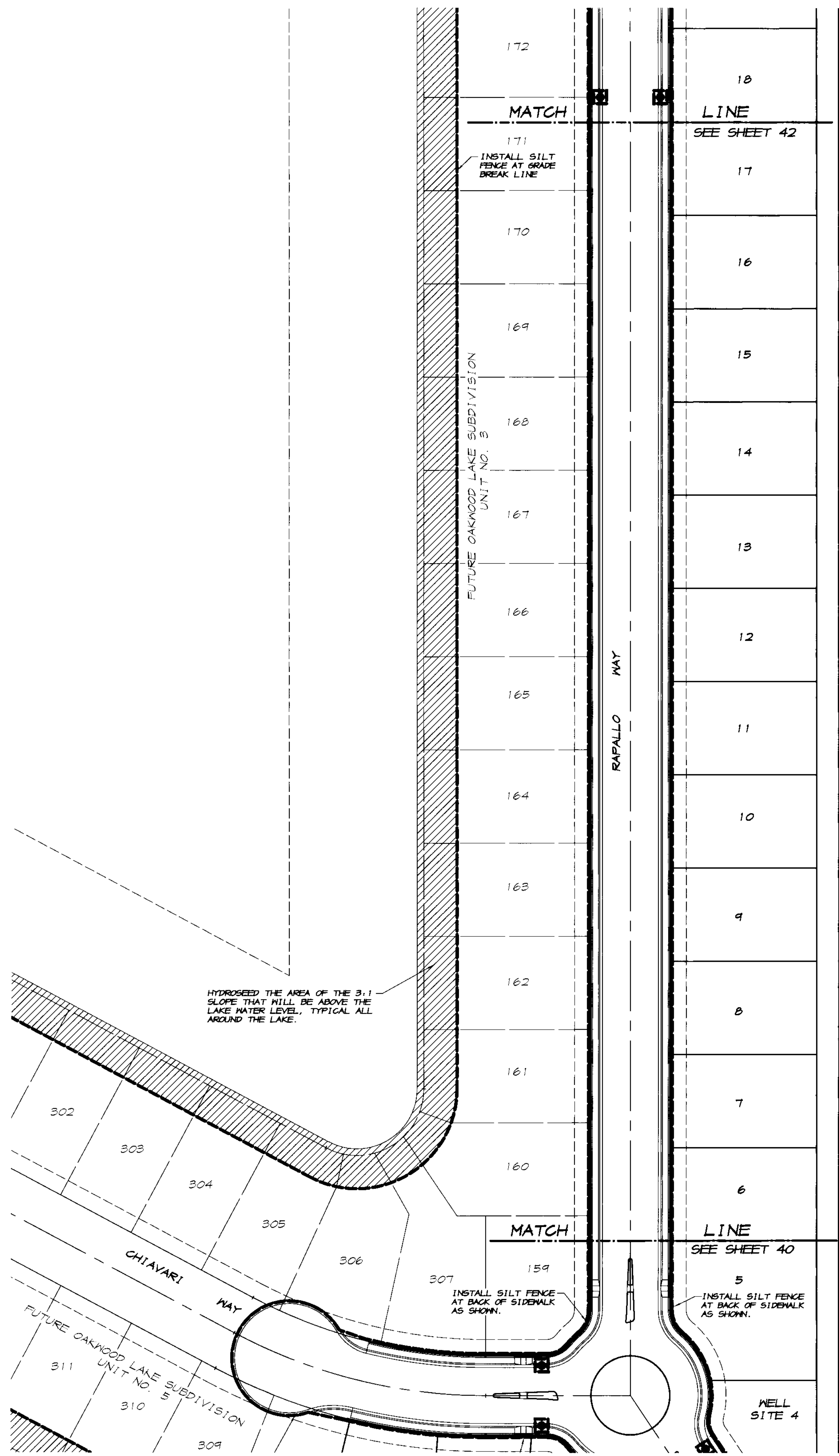
RECORD DRAWING

Drawn by: J.S.H.  
 Date: 6/14/05  
 Scale: 1" = 50'  
 Dwg: 296-EROS  
 Checked: KN  
 Job #: 296A-04

DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: 1" = 50'  
 DWG: 296-EROS  
 CHECKED: KN  
 JOB #: 296A-04

SHEET **42**  
 OF **45**

SU 3873

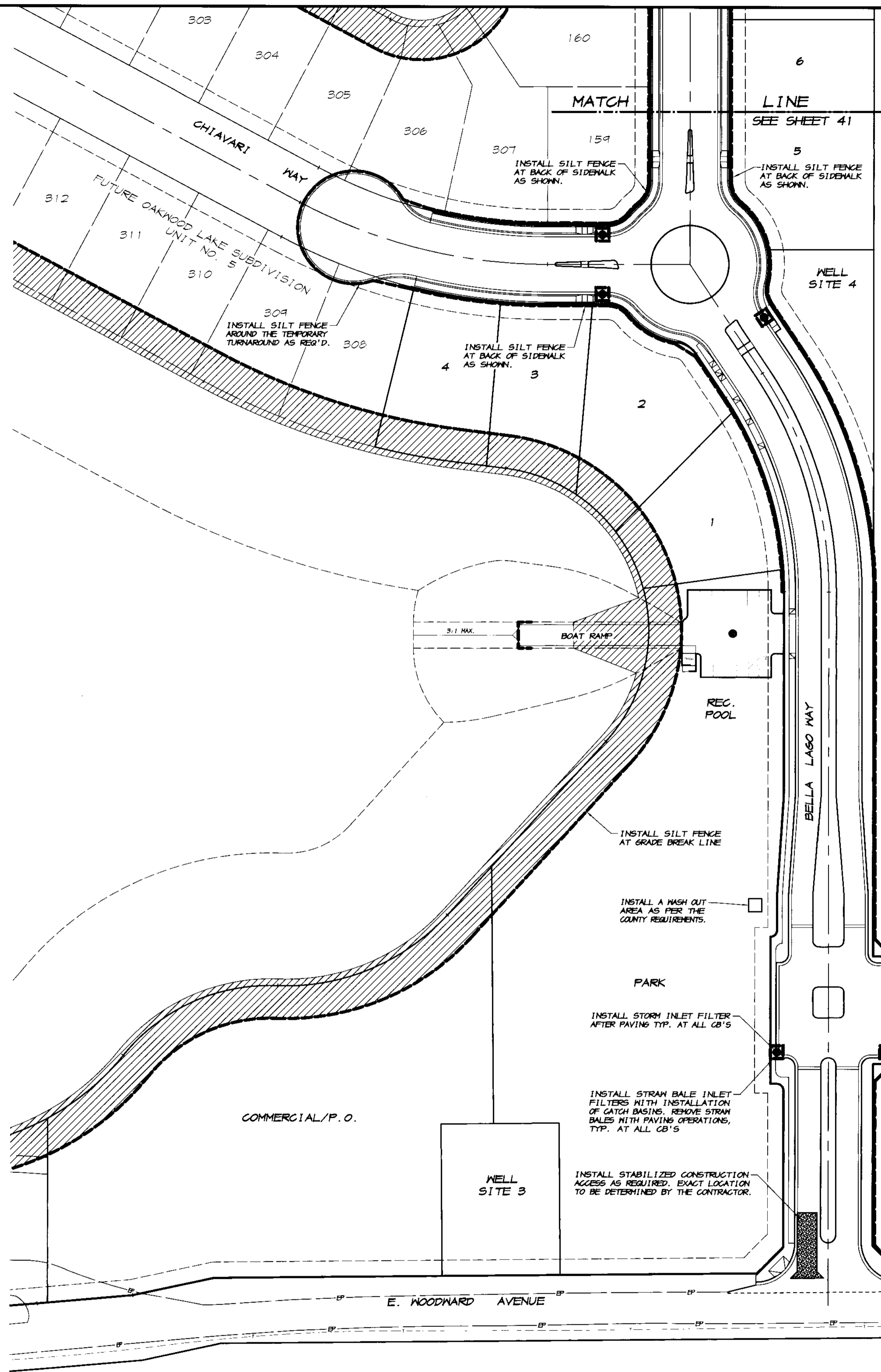


18	LINE	SEE SHEET 42
17		
16		
15		
14		
13		
12		
11		
10		
9		
8		
7		
6		
5	LINE	SEE SHEET 40
4		
3		
2		
1		



**RECORD DRAWING**  
 Date: 2/12/2008  
 Drawn by: J.S.H.  
 Checked: KH  
 Job #: 296A-04

BY	
DATE	
DESCRIPTION	
REVISION	
<b>ASSOCIATED ENGINEERING, INC.</b> Surveying · Design · Planning 4206 TECHNOLOGY DRIVE MODESTO, CALIFORNIA 95356 PH: (209) 545-3390 FAX: (209) 545-3875	
<b>TRACT NO. 3475</b> <b>EROSION CONTROL PLAN</b> <b>OAKWOOD LAKE SUBDIVISION, UNIT 2</b> SAN JOAQUIN COUNTY CALIFORNIA	
DRAWN BY: J.S.H. DATE: 6/14/05 SCALE: 1"=50' DWG: 296-EROS CHECKED: KH JOB #: 296A-04	
SHEET <b>41</b> OF <b>45</b>	



RS 13-10

**LEGEND**

- EP — EXISTING EDGE OF PAVEMENT
- EXISTING POWER POLE
- PROPOSED CURB, GUTTER & SIDEWALK
- ☼ PROPOSED ELECTROLIER (SEE IMPROVEMENT PLANS)
- 5% 002 PROPOSED SLOPE & DIRECTION OF FLOW
- CB-1 PROPOSED CATCH BASIN
- PROPOSED SILT FENCE, EITHER FABRIC OR STRAIN TYPE PER DETAILS ON SHEET 45
- ▨ PROPOSED AREA OF SEEDING. SEE NOTES, SHEET 2

**RECORD DRAWING**

3/12/2008  
 Ryan Carrel  
 Registered Professional Engineer  
 No. 61619  
 Exp. 6-30-07  
 State of California

REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
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 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

TRACT NO. 3475  
**EROSION CONTROL PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

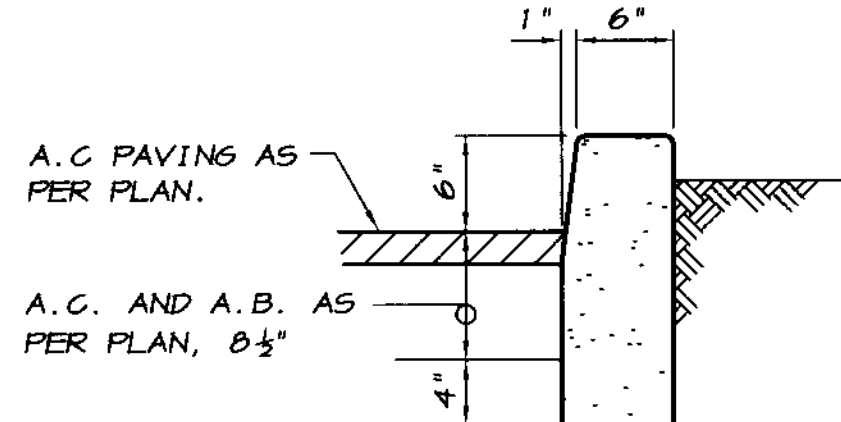


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 DATE: 6/14/05  
 SCALE: 1"=50'  
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 CHECKED: KH  
 JOB #: 296A-04

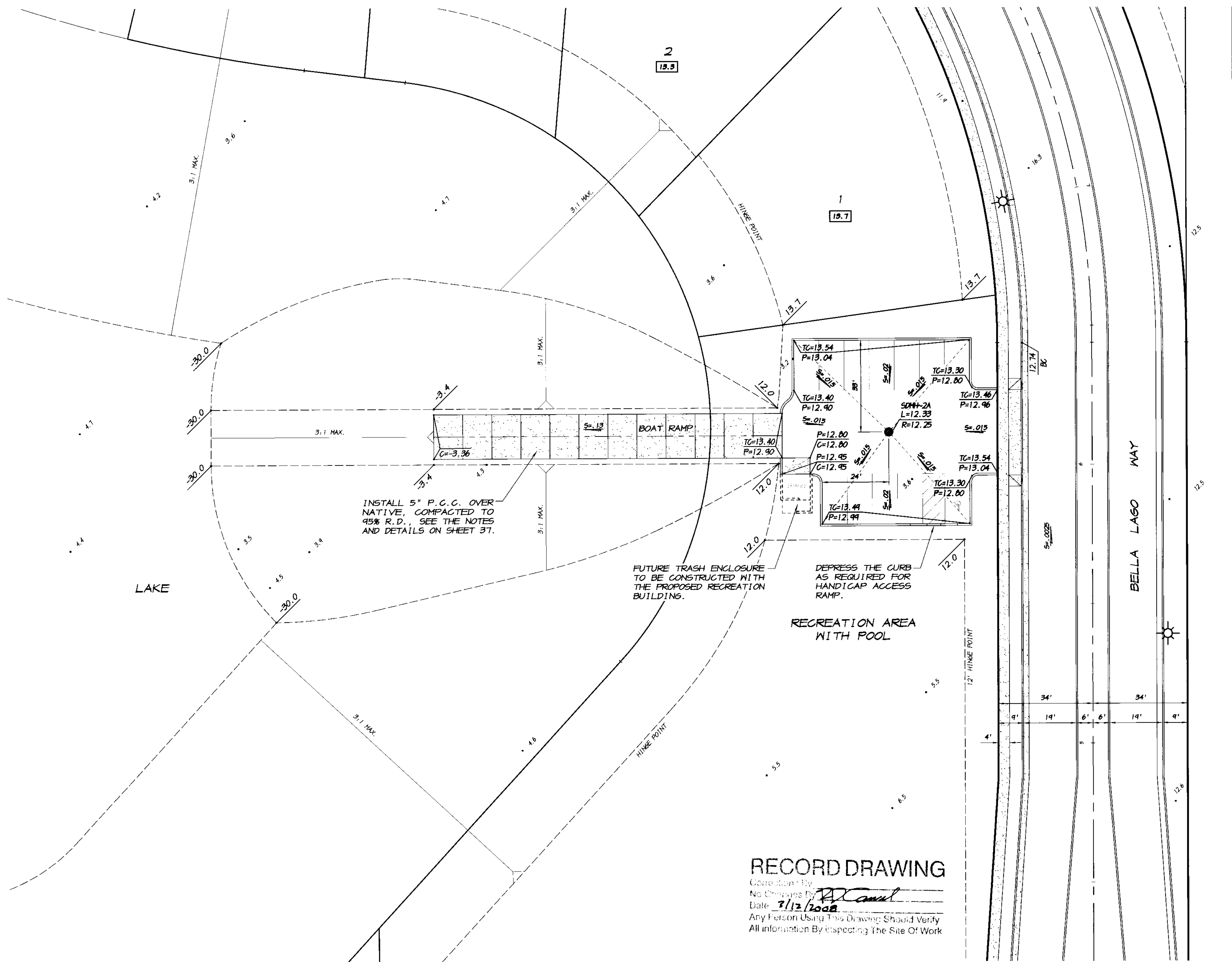
SHEET  
**40**  
 OF  
**45**

**LEGEND**

- 4.0 EXISTING GROUND ELEVATION
- $\sqrt{C=12.80}$  PROPOSED CONCRETE ELEVATION
- $\sqrt{TC=13.30}$  PROPOSED TOP OF CURB ELEVATION
- $\sqrt{P=12.80}$  PROPOSED PAVEMENT ELEVATION
- $\sqrt{12.0}$  PROPOSED LOT GRADE
- $\sqrt{11.50}$  PROPOSED OFF-SITE TOP OF CURB ELEVATION
- $\sqrt{12.0}$  PROPOSED FLAT PAD LOT GRADE
- PROPOSED 6" CURBING AS PER DETAIL BELOW
- SMH-2A PROPOSED STORM DRAIN MANHOLE WITH A DRAINAGE GRATE.
- $S=0.15$  PROPOSED SLOPE AND DIRECTION OF FLOW
- [Pattern] PROPOSED AREA OF CONCRETE, USE 5" MIN. THICKNESS IN TRAFFIC AREAS.
- [Pattern] PROPOSED AREA OF ASPHALT PAVING, USE 2 1/2" A.C. OVER 6" A.B. ON NATIVE SOIL COMPACTED TO 95% R.D.



**6" CURBING DETAIL**  
NO SCALE



INSTALL 5" P.C.C. OVER NATIVE, COMPACTED TO 95% R.D., SEE THE NOTES AND DETAILS ON SHEET 37.

FUTURE TRASH ENCLOSURE TO BE CONSTRUCTED WITH THE PROPOSED RECREATION BUILDING.

DEPRESS THE CURB AS REQUIRED FOR HANDICAP ACCESS RAMP.

RECREATION AREA WITH POOL

**RECORD DRAWING**

Created by: *[Signature]*  
No Changes By: *[Signature]*  
Date: 7/12/2008  
Any Person Using This Drawing Should Verify All Information By Inspecting The Site Of Work

**RECREATION AREA PARKING LOT AND SOUTH LAKE BOAT RAMP PLAN**

SCALE: 1" = 20'

NOTE  
THIS SHEET IS NOT A PART OF THE SAN JOAQUIN COUNTY APPROVAL FOR THE IMPROVEMENT PLANS.

SCALE: 1" = 20'

REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
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MODESTO, CALIFORNIA 95356  
PH: (209) 545-3390 FAX: (209) 545-3875



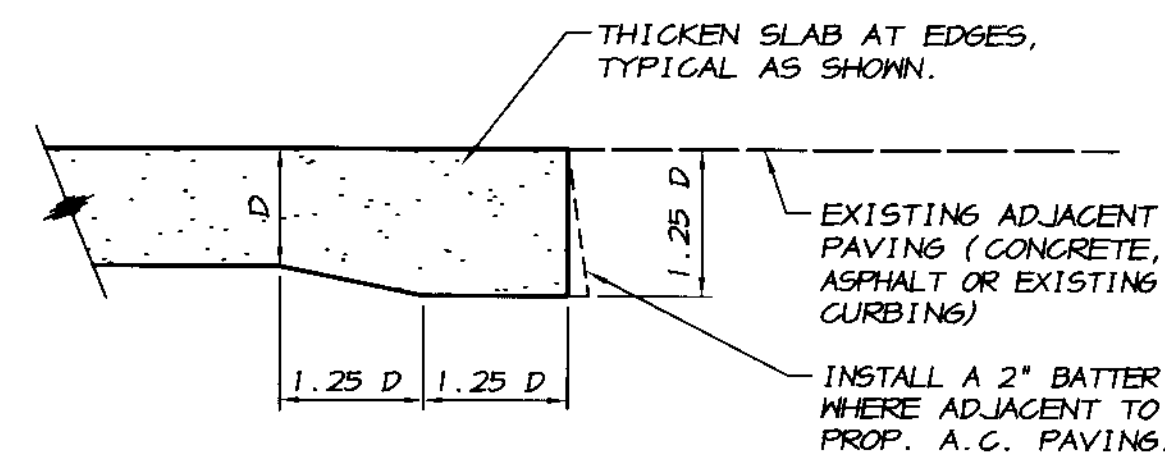
RECREATION AREA PARKING LOT & SOUTH LAKE  
**BOAT RAMP PLAN**  
OAKWOOD LAKE SUBDIVISION, UNIT 2  
SAN JOAQUIN COUNTY CALIFORNIA

*[Signature]*  
RYAN CARREL, R.C.E. 61619  
DANIEL ENGLAND, R.C.E. 49026  
DAVE SKIDMORE, L.S. 7126

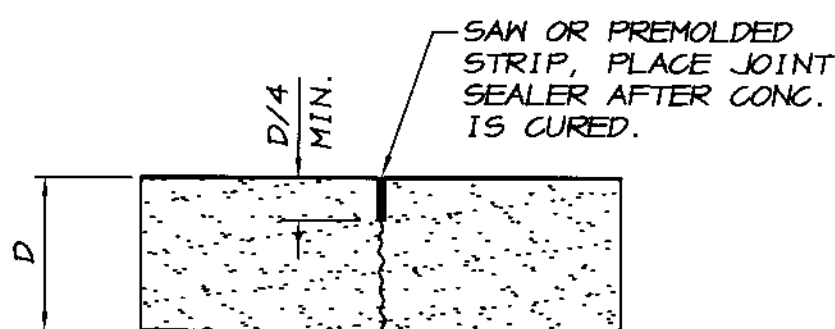


DRAWN BY: *[Signature]*  
DATE: 6/14/08  
SCALE: 1" = 20'  
DWG: 296-BREA  
CHECKED: *[Signature]*  
JOB # 296E-04

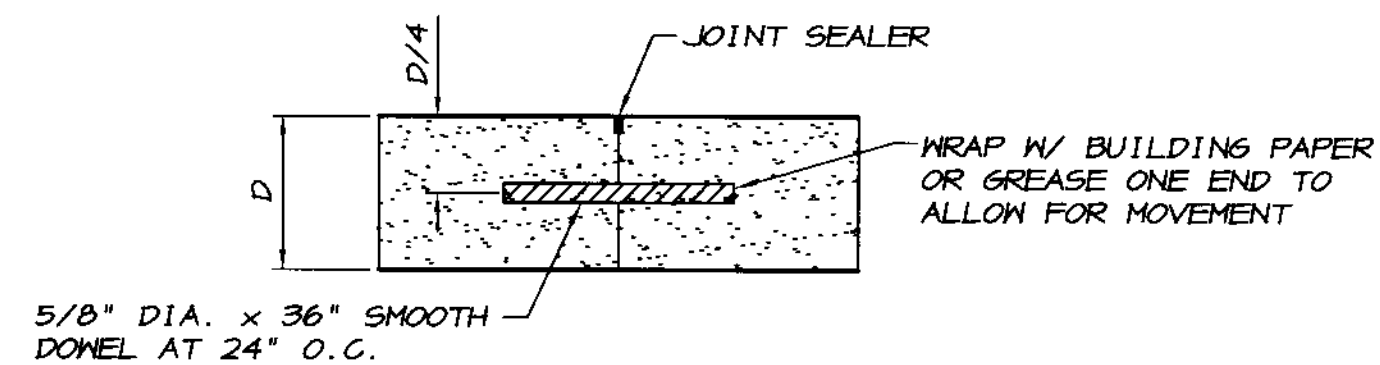
SHEET **39** OF **45**



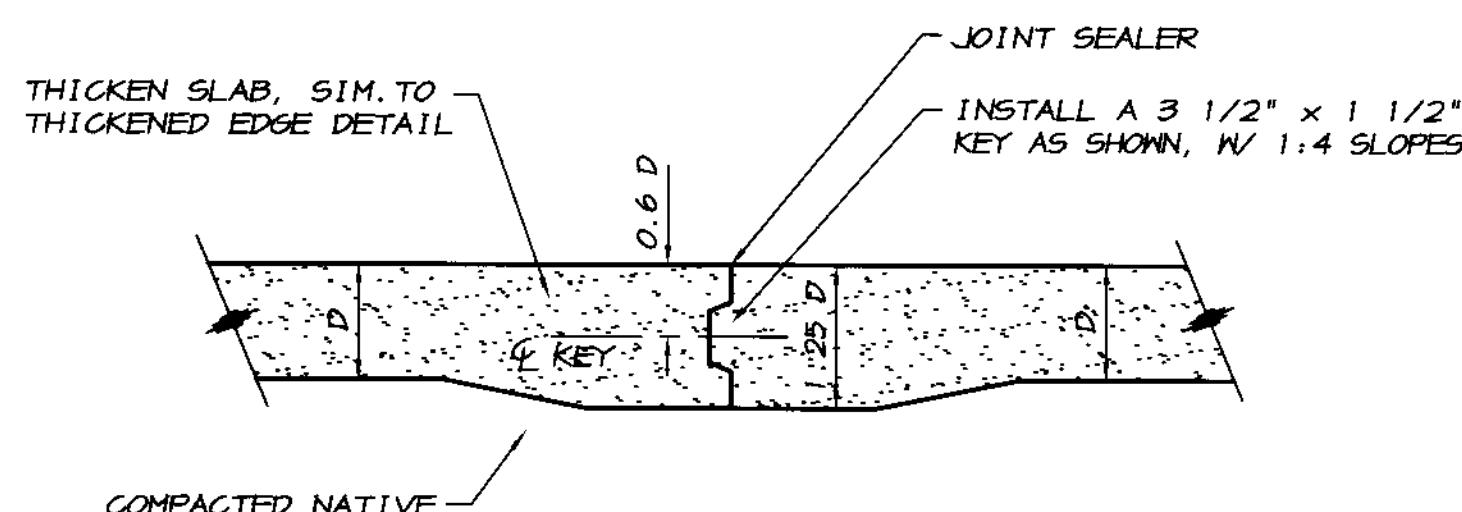
**THICKENED SLAB EDGE  
DETAIL A**  
NO SCALE



**TYPICAL CRACK CONTROL JOINT  
DETAIL B**  
NO SCALE



**DOWEL**



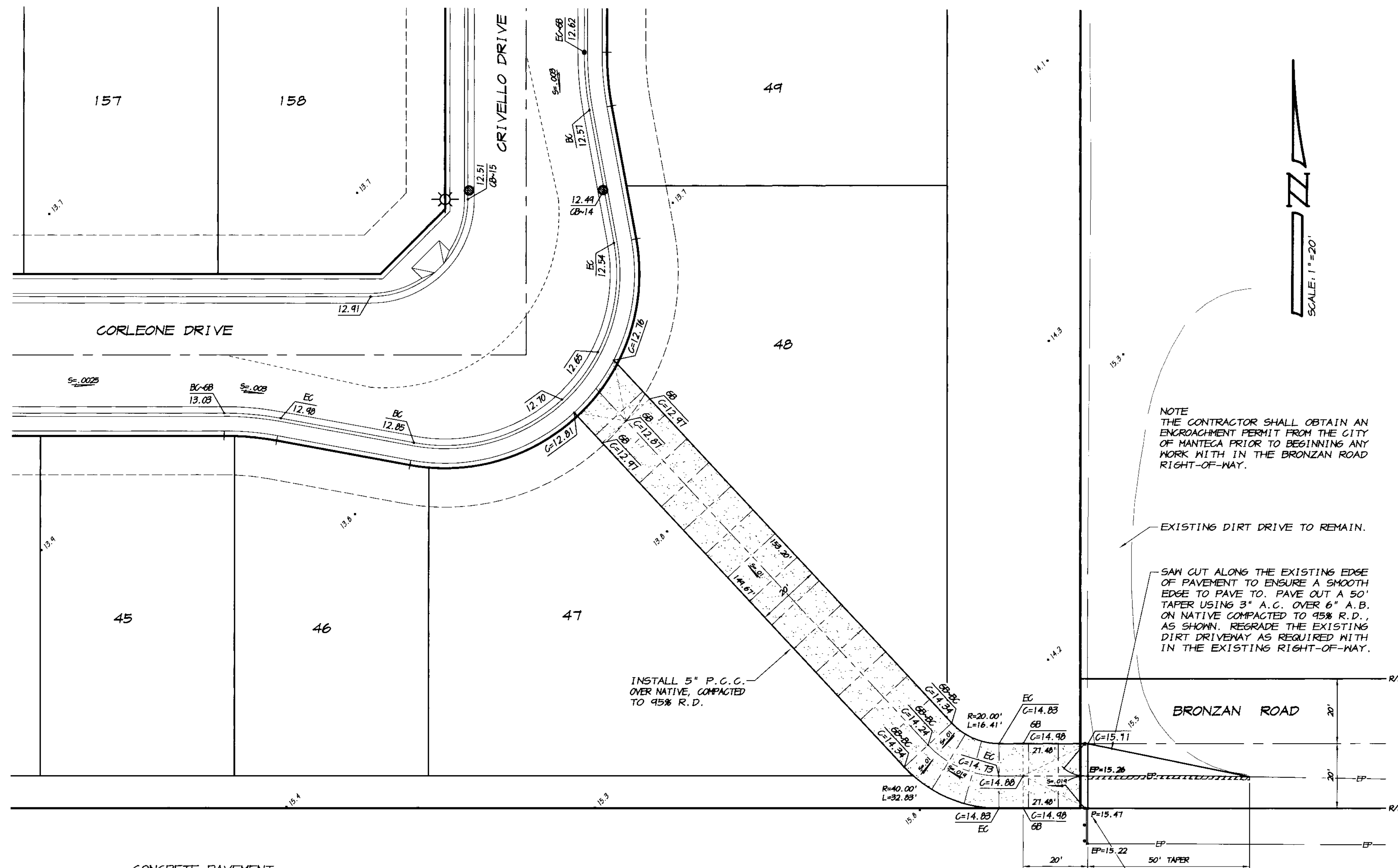
**KEY**

NOTE  
ALL COLD JOINTS SHALL BE EITHER  
KEYED OR DOWELED AS PER THIS DETAIL.

**TYPICAL COLD JOINTS  
DETAIL C**  
NO SCALE

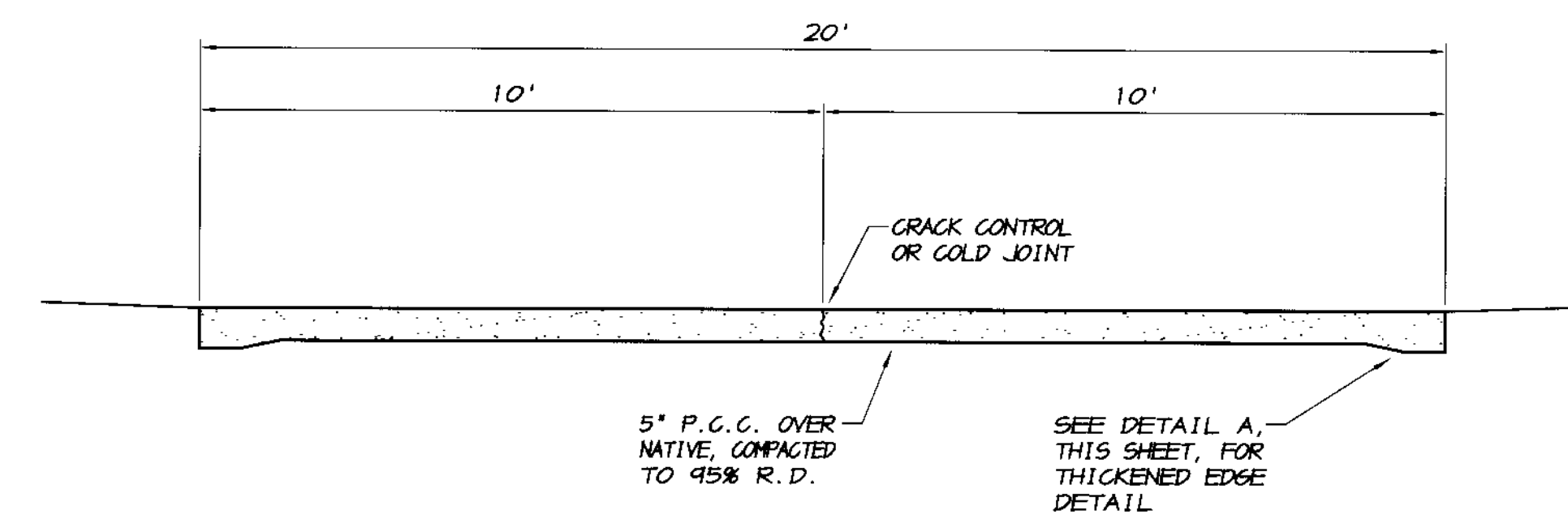
**GENERAL NOTES**

- CRACK CONTROL JOINTS SHALL BE PLACED AT THE LOCATIONS AS SHOWN ON THE PLAN. JOINTS SHALL PENETRATE A MINIMUM OF ONE QUARTER OF THE DEPTH OF THE CONCRETE SLAB. THE CONTROL JOINTS SHALL BE LOCATED TO ALIGN WITH THE EXISTING FACILITIES SHOWN ON THE PLANS. IF ADDITIONAL STRUCTURES ARE FOUND TO EXIST, CONTACT THE ENGINEER.
- ALL CRACK AND CONSTRUCTION JOINTS SHALL BE SEALED WITH AN APPROPRIATE JOINT SEALER TO PREVENT WATER SEEPAGE.
- ALL COLD OR CONSTRUCTION JOINTS SHALL BE EITHER KEYED OR DOWELED AS SHOWN ON THE DETAILS.



**CONCRETE PAVEMENT**

- CONCRETE: PORTLAND CEMENT CONCRETE PAVING SHALL BE CLASS B AS DEFINED IN THE STATE OF CALIFORNIA STANDARDS, WITH A 28 DAY COMPRESSIVE STRENGTH OF 2,500 POUNDS PER SQUARE INCH AS A MINIMUM, AND A MAXIMUM SLUMP OF 3 INCHES. CONCRETE SHALL CONSIST OF A 5 SACK MIXTURE OF PORTLAND CEMENT, WATER, AND AGGREGATE. PORTLAND CEMENT SHALL BE TYPE II. AGGREGATES SHALL BE WASHED BEFORE USE AND BE FREE FROM ANY FOREIGN MATTER.
- THE AGGREGATES SHALL BE GRADED TO PROVIDE A PLASTIC, WORKABLE MIXTURE OF MAXIMUM DENSITY WITH A MAXIMUM SIZE AGGREGATE OF 3/4 INCHES. THE WATER SHALL BE POTABLE AND NO ADMIXTURES SHALL BE USED WITHOUT APPROVAL OF THE ENGINEER. THE CEMENT, WATER AND AGGREGATES SHALL BE COMBINED AT THE BATCH PLANT AND BE THOROUGHLY MIXED. NO WATER SHALL BE ADDED TO THE MIXTURE AFTER LEAVING THE BATCH PLANT WITHOUT APPROVAL OF THE ENGINEER. ALL CONCRETE SHALL BE PLACED WITHIN 90 MINUTES AFTER THE INTRODUCTION OF WATER TO THE CEMENT. THE TEMPERATURE OF THE CONCRETE SHALL NOT BE LESS THAN 50 DEGREES FAHRENHEIT AND NOT MORE THAN 90 DEGREES FAHRENHEIT.
- THE CONCRETE SHALL BE CONSOLIDATED BY VIBRATING. CONCRETE WHICH HAS ROCK POCKETS OR HONEY COMBING AFTER CURING SHALL BE REMOVED AND REPLACED.
- ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH SECTION 90-7.01B OF THE STATE OF CALIFORNIA STANDARDS AND VEHICULAR TRAFFIC SHOULD NOT BE ALLOWED FOR 3 DAYS (AUTOMOBILE TRAFFIC) OR 7 DAYS (TRUCK TRAFFIC).
- THE 5" THICK CONCRETE PAVEMENT SHALL BE REINFORCED WITH "FIBERMESH STEALTH ES" POLYPROPYLENE FIBER, OR AN APPROVED EQUAL. THE APPLICATION RATE SHALL BE A MINIMUM OF 1.0 POUND PER CUBIC YARD AND SHALL BE MIXED AS PER THE MANUFACTURERS RECOMMENDATIONS.
- IF "FIBERMESH" IS NOT USED AND AN EQUAL IS PROVIDED, SUBMITTALS WITH SPECIFICATIONS SHALL BE SUPPLIED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER BEFORE USE ON THIS PROJECT.
- CRACK CONTROL JOINTS SHALL BE PLACED AT 12 FOOT MAXIMUM INTERVALS AND SHALL PENETRATE THE CONCRETE SLAB A MINIMUM OF 1/4 OF THE SLAB THICKNESS.



**TYPICAL CROSS SECTION  
EMERGENCY ACCESS**  
NO SCALE

**RECORD DRAWING**

Drawn by: J.S.H.  
DATE: 6/14/05  
SCALE: 1"=20'  
DWS: 296-BREA  
CHECKED: KW  
JOB #: 296E-04  
SHEET 38 OF 45

REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
Surveying · Design · Planning  
4206 TECHNOLOGY DRIVE  
MODESTO, CALIFORNIA 95356  
PH: (209) 545-3390 FAX: (209) 545-3875



**EMERGENCY ACCESS PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
SAN JOAQUIN COUNTY CALIFORNIA

**RCamil**  
RYAN CARREL, R.C.E. 61619  
DANIEL ENGLAND, R.C.E. 49026  
DAVE SKIDMORE, L.S. 7126

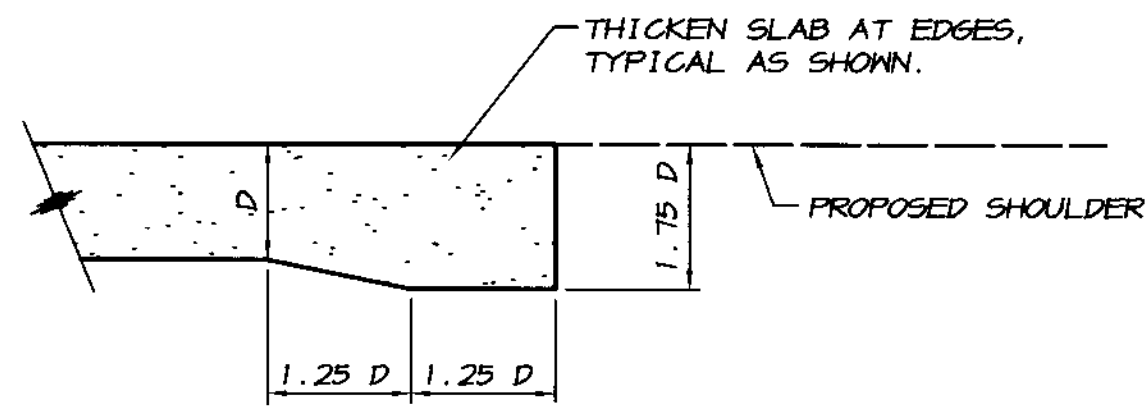


Drawn by: J.S.H.  
DATE: 6/14/05  
SCALE: 1"=20'  
DWS: 296-BREA  
CHECKED: KW  
JOB #: 296E-04

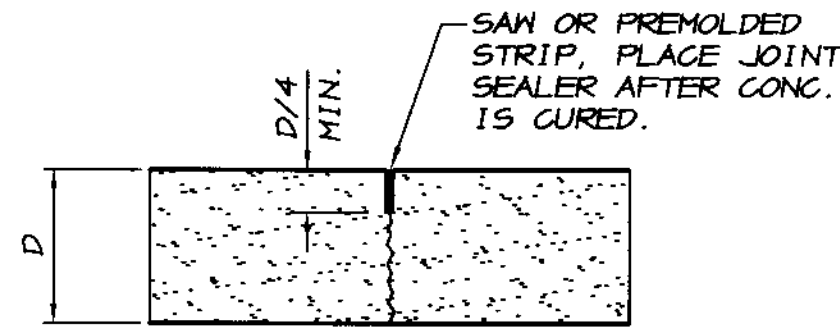
SHEET 38 OF 45

SU 3876

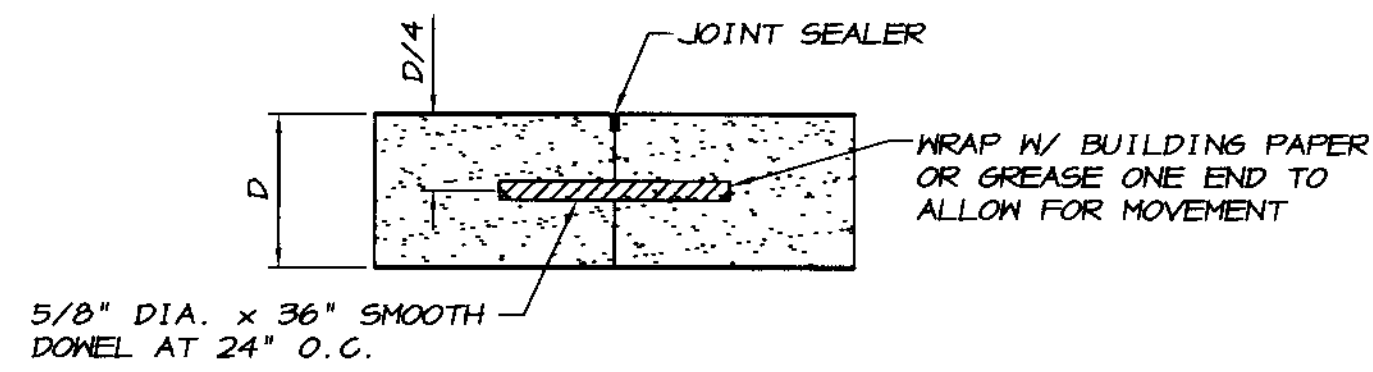




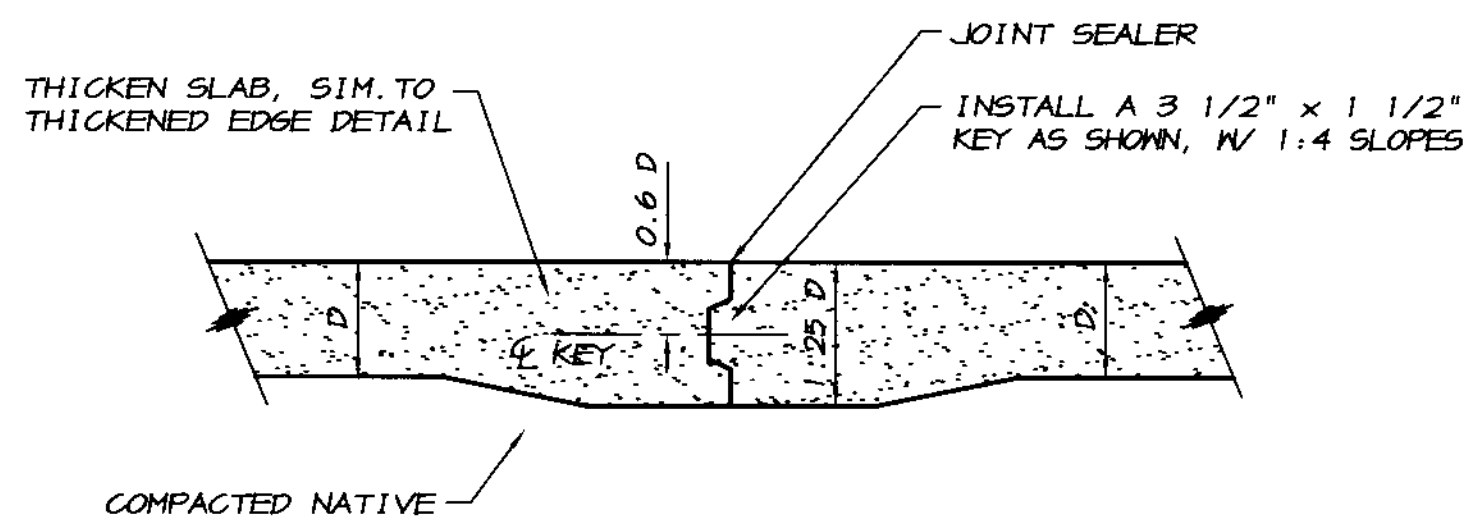
**THICKENED SLAB EDGE  
DETAIL A**  
NO SCALE



**TYPICAL CRACK CONTROL JOINT  
DETAIL B**  
NO SCALE



**DOWEL**



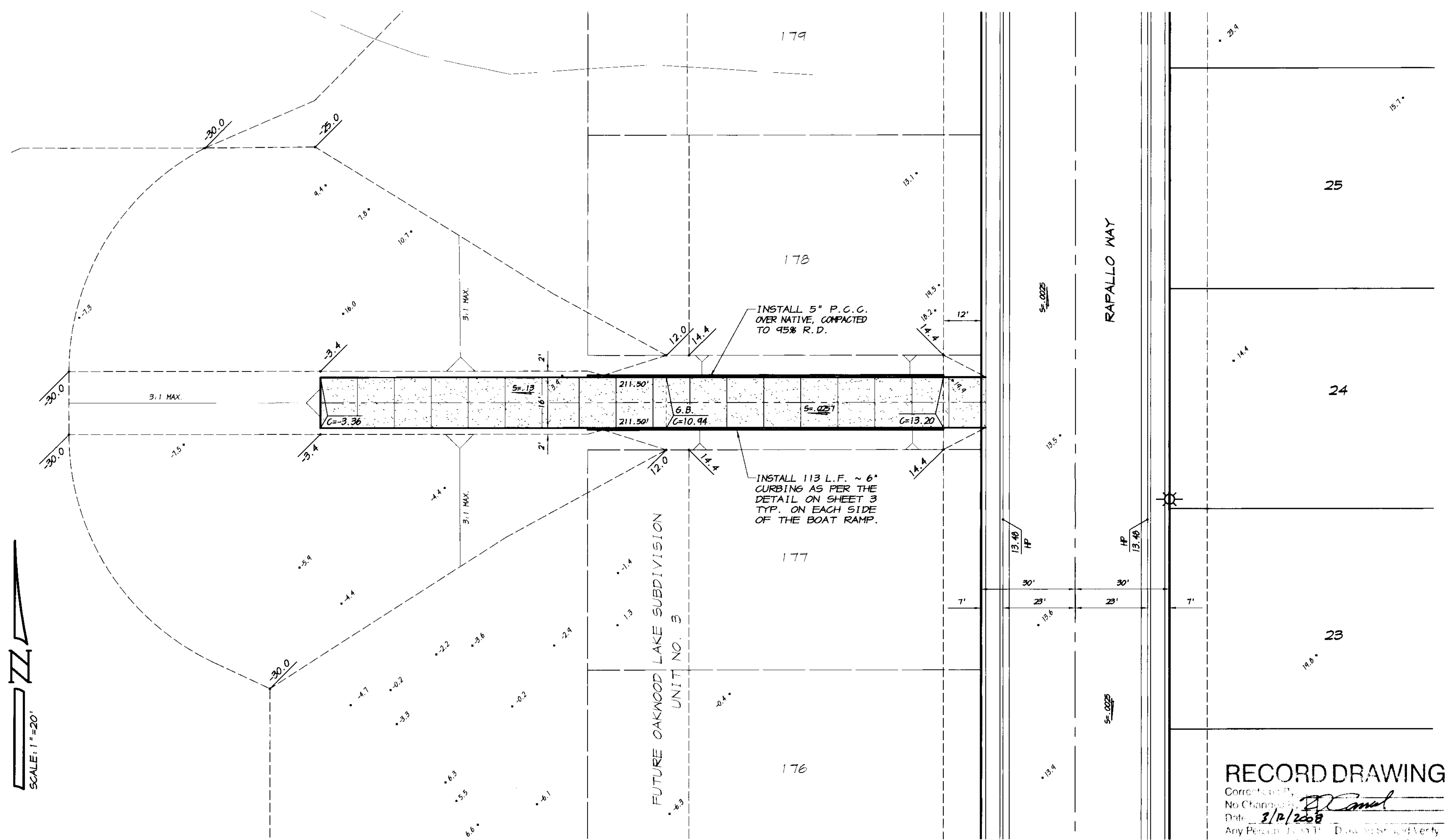
**KEY**

**NOTE**  
ALL COLD JOINTS SHALL BE EITHER KEYED OR DOWELED AS PER THIS DETAIL.

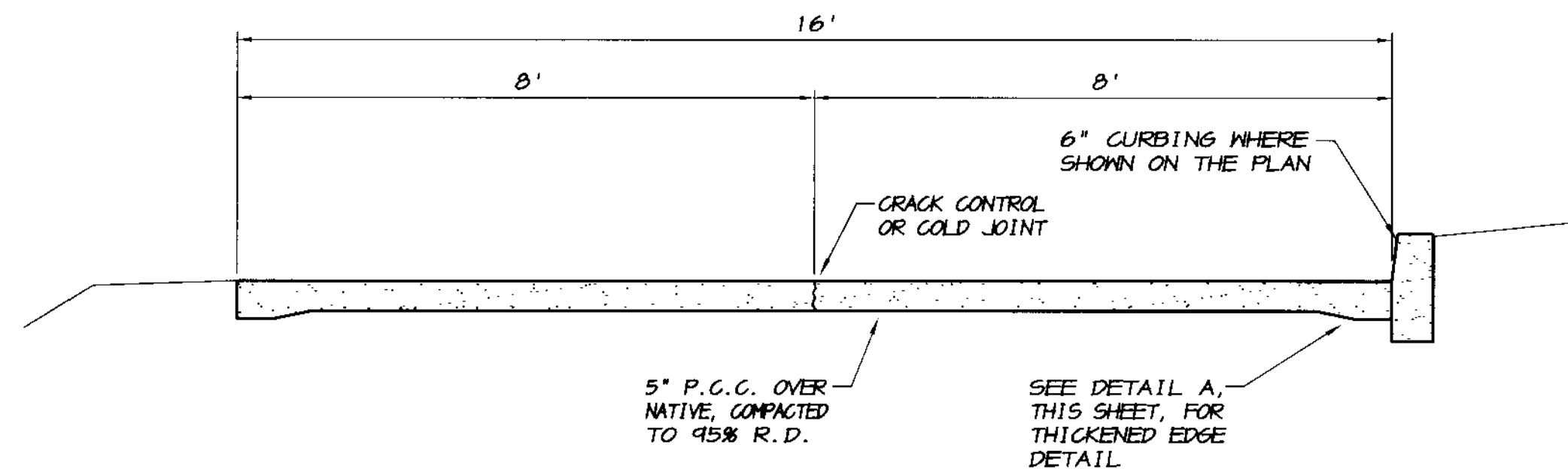
**TYPICAL COLD JOINTS  
DETAIL C**  
NO SCALE

**GENERAL NOTES**

1. CRACK CONTROL JOINTS SHALL BE PLACED AT THE LOCATIONS AS SHOWN ON THE PLAN. JOINTS SHALL PENETRATE A MINIMUM OF ONE QUARTER OF THE DEPTH OF THE CONCRETE SLAB. THE CONTROL JOINTS SHALL BE LOCATED TO ALIGN WITH THE EXISTING FACILITIES SHOWN ON THE PLANS. IF ADDITIONAL STRUCTURES ARE FOUND TO EXIST, CONTACT THE ENGINEER.
2. ALL CRACK AND CONSTRUCTION JOINTS SHALL BE SEALED WITH AN APPROPRIATE JOINT SEALER TO PREVENT WATER SEEPAGE.
3. ALL COLD OR CONSTRUCTION JOINTS SHALL BE EITHER KEYED OR DOWELED AS SHOWN ON THE DETAILS.



**NOTE**  
THIS SHEET IS NOT A PART OF THE SAN JOAQUIN COUNTY APPROVAL FOR THE IMPROVEMENT PLANS.



**TYPICAL CROSS SECTION  
BOAT RAMP**  
NO SCALE

**CONCRETE PAVEMENT**

1. CONCRETE: PORTLAND CEMENT CONCRETE PAVING SHALL BE CLASS B AS DEFINED IN THE STATE OF CALIFORNIA STANDARDS, WITH A 28 DAY COMPRESSIVE STRENGTH OF 2,500 POUNDS PER SQUARE INCH AS A MINIMUM, AND A MAXIMUM SLUMP OF 3 INCHES. CONCRETE SHALL CONSIST OF A 5 SACK MIXTURE OF PORTLAND CEMENT, WATER, AND AGGREGATE. PORTLAND CEMENT SHALL BE TYPE I. AGGREGATES SHALL BE WASHED BEFORE USE AND BE FREE FROM ANY FOREIGN MATTER.
2. THE AGGREGATES SHALL BE GRADED TO PROVIDE A PLASTIC, WORKABLE MIXTURE OF MAXIMUM DENSITY WITH A MAXIMUM SIZE AGGREGATE OF 3/4 INCHES. THE WATER SHALL BE POTABLE AND NO ADMIXTURES SHALL BE USED WITHOUT APPROVAL OF THE ENGINEER. THE CEMENT, WATER AND AGGREGATES SHALL BE COMBINED AT THE BATCH PLANT AND BE THOROUGHLY MIXED. NO WATER SHALL BE ADDED TO THE MIXTURE AFTER LEAVING THE BATCH PLANT WITHOUT APPROVAL OF THE ENGINEER. ALL CONCRETE SHALL BE PLACED WITHIN 90 MINUTES AFTER THE INTRODUCTION OF WATER TO THE CEMENT. THE TEMPERATURE OF THE CONCRETE SHALL NOT BE LESS THAN 50 DEGREES FAHRENHEIT AND NOT MORE THAN 90 DEGREES FAHRENHEIT.
3. THE CONCRETE SHALL BE CONSOLIDATED BY VIBRATING. CONCRETE WHICH HAS ROCK POCKETS OR HONEY COMBS AFTER CURING SHALL BE REMOVED AND REPLACED.
4. ALL CONCRETE SHALL BE CURED IN ACCORDANCE WITH SECTION 90-7.01B OF THE STATE OF CALIFORNIA STANDARDS AND VEHICULAR TRAFFIC SHOULD NOT BE ALLOWED FOR 3 DAYS (AUTOMOBILE TRAFFIC) OR 7 DAYS (TRUCK TRAFFIC).
5. THE 5" THICK CONCRETE PAVEMENT SHALL BE REINFORCED WITH "FIBERMESH STEALTH E3" POLYPROPYLENE FIBER, OR AN APPROVED EQUAL. THE APPLICATION RATE SHALL BE A MINIMUM OF 1.0 POUND PER CUBIC YARD AND SHALL BE MIXED AS PER THE MANUFACTURERS RECOMMENDATIONS.
6. IF "FIBERMESH" IS NOT USED AND AN EQUAL IS PROVIDED, SUBMITTALS WITH SPECIFICATIONS SHALL BE SUPPLIED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER BEFORE USE ON THIS PROJECT.
7. CRACK CONTROL JOINTS SHALL BE PLACED AT 12 FOOT MAXIMUM INTERVALS AND SHALL PENETRATE THE CONCRETE SLAB A MINIMUM OF 1/4 OF THE SLAB THICKNESS.

**RECORD DRAWING**

Contract No. 24  
No Change  
Date: 8/12/2008  
Any Person Using This Drawing Must Verify All Information by Inspection of the Work

REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
Surveying • Design • Planning  
4206 TECHNOLOGY DRIVE  
MODESTO, CALIFORNIA 95356  
PH: (209) 545-3390 FAX: (209) 545-3875



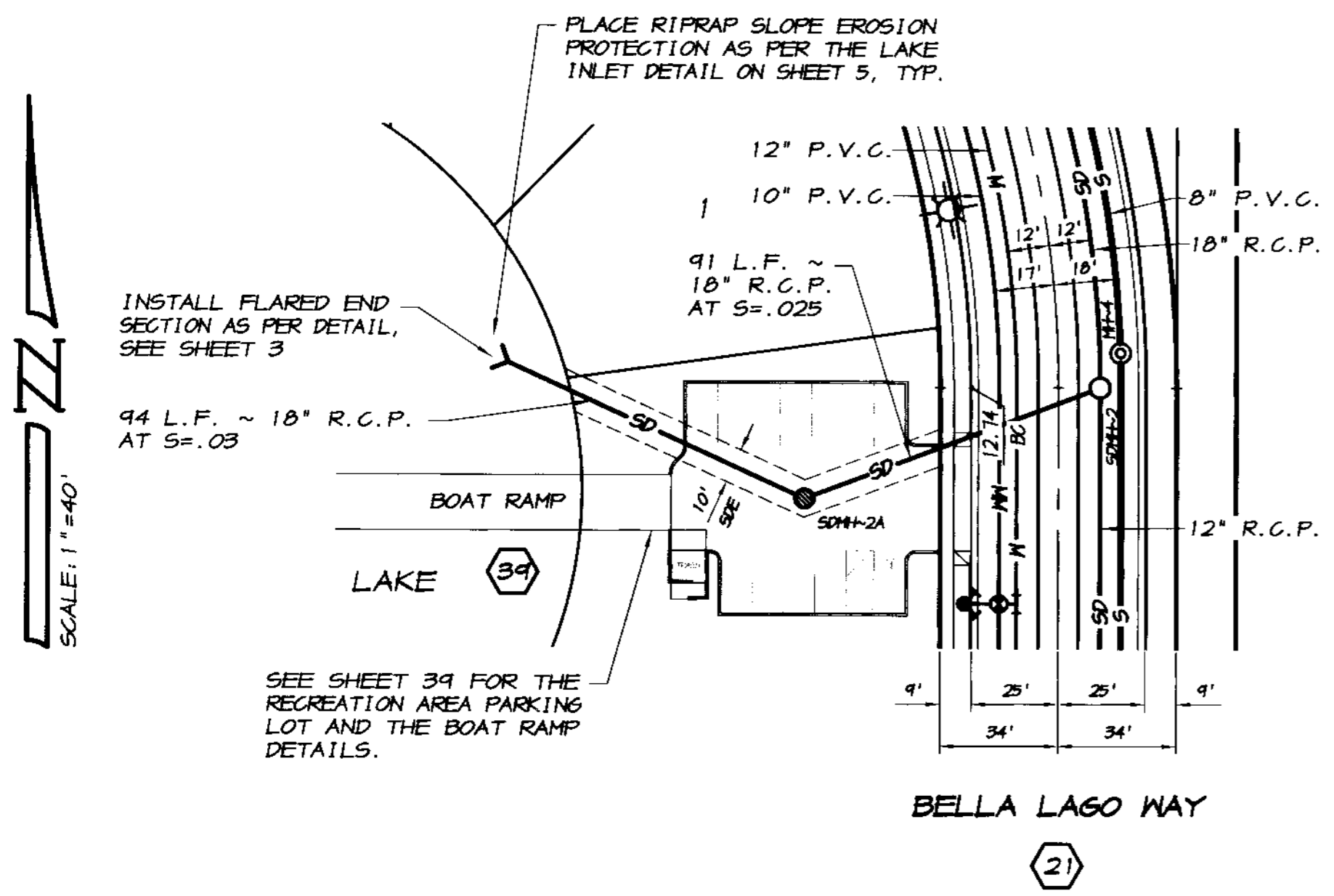
**NORTH LAKE BOAT RAMP PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
SAN JOAQUIN COUNTY CALIFORNIA

**RYAN CARREL, R.C.E. 61619**  
DANIEL ENGLAND, R.C.E. 49026  
DAVE SKIDMORE, L.S. 7126



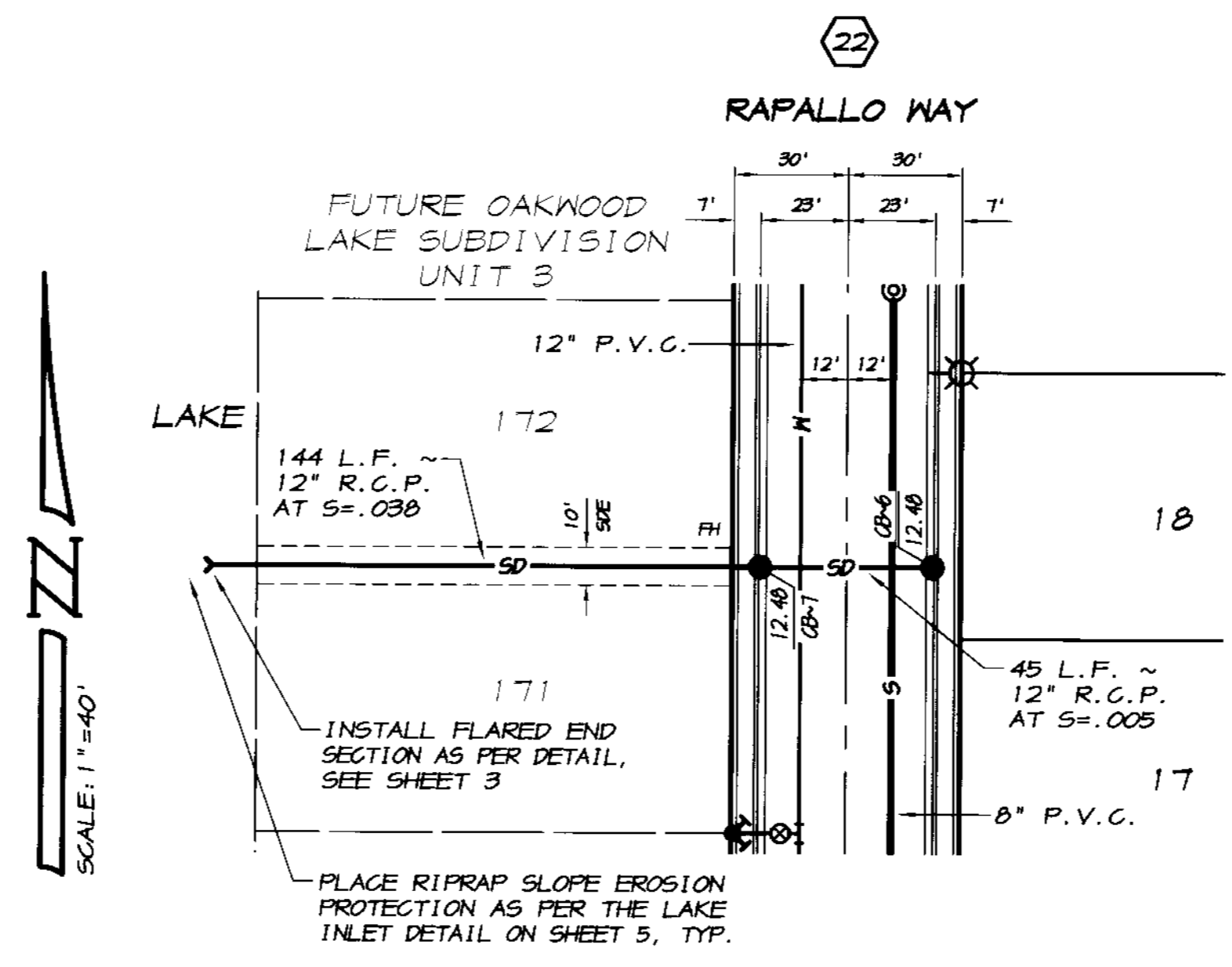
DRAWN BY: J.S.H.  
DATE: 6/14/05  
SCALE: 1"=20'  
DWG: 240-BREA  
CHECKED: KJH  
JOB #: 240E-04

SHEET **37**  
OF **45**



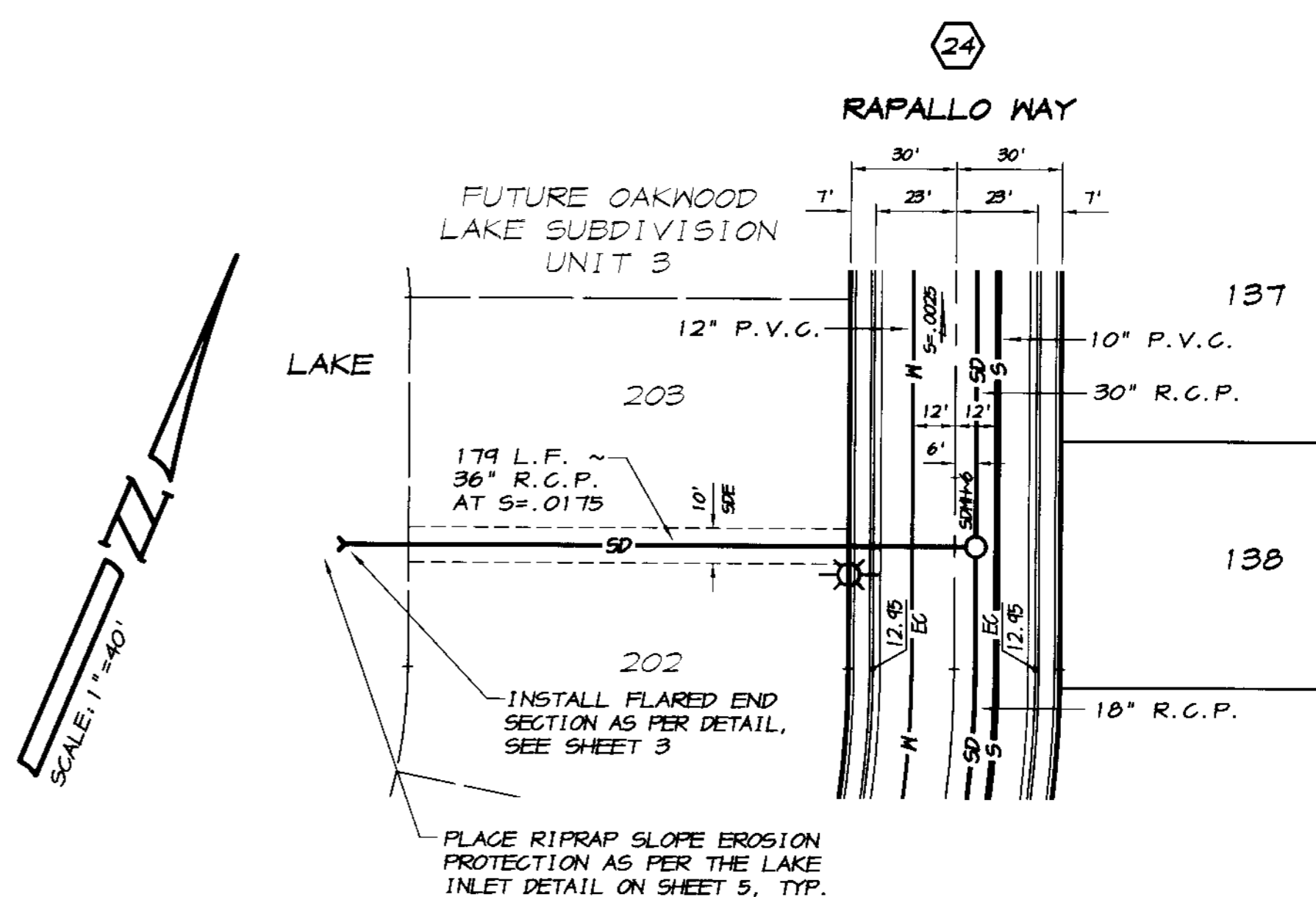
**STORM DRAIN OUTFALL "A"**

SCALE: 1"=40'



**STORM DRAIN OUTFALL "B"**

SCALE: 1"=40'

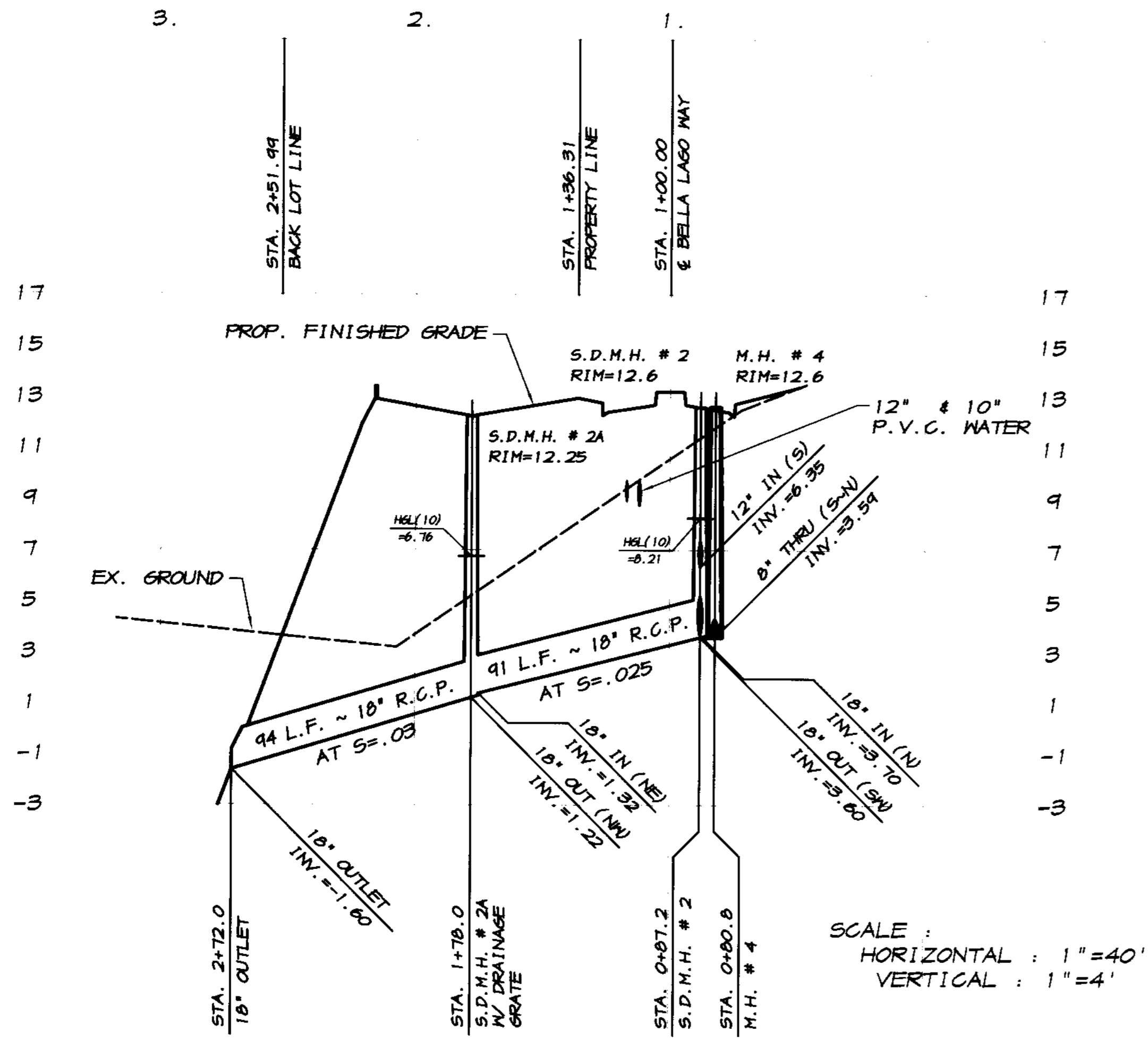


**STORM DRAIN OUTFALL "C"**

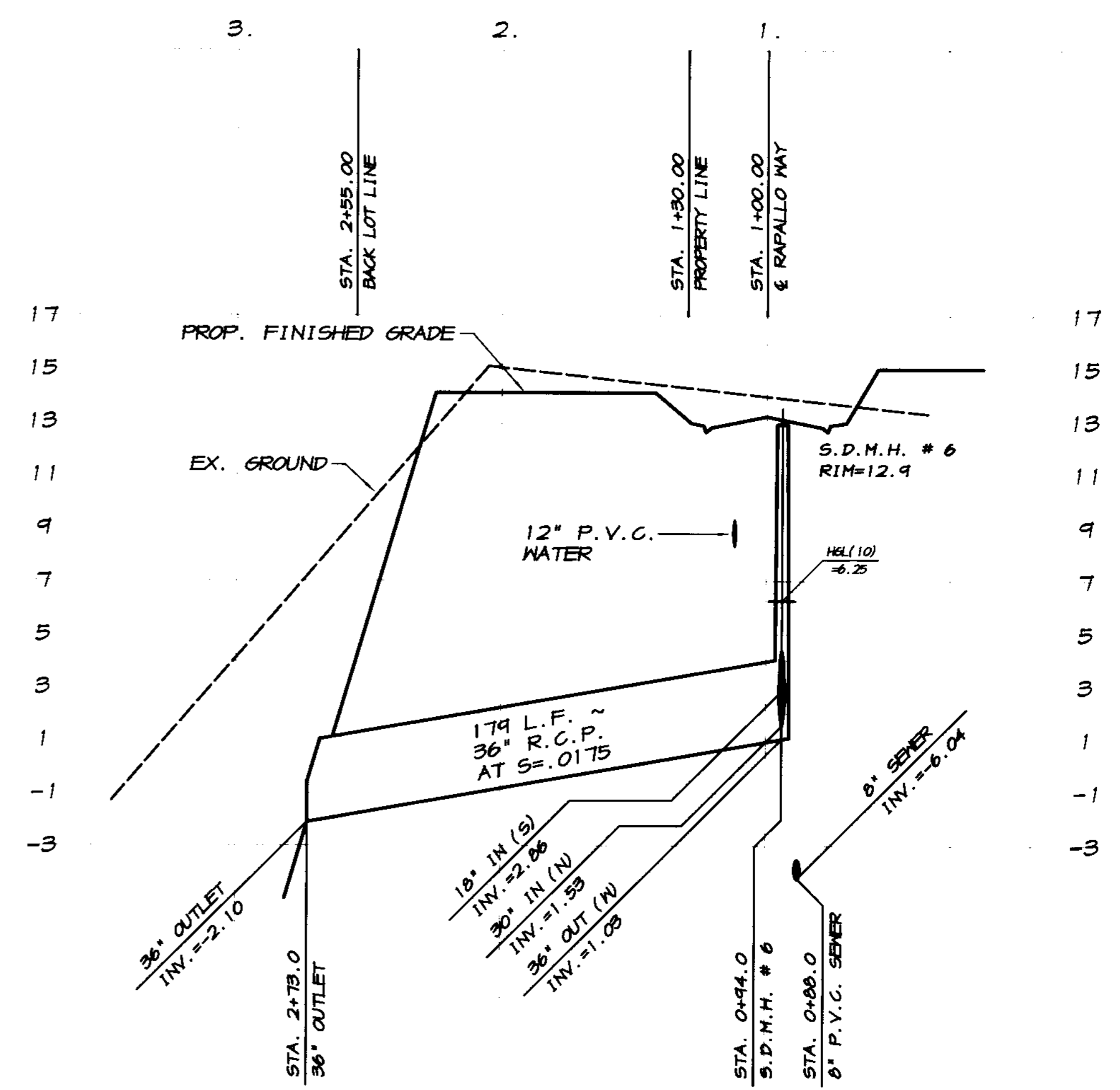
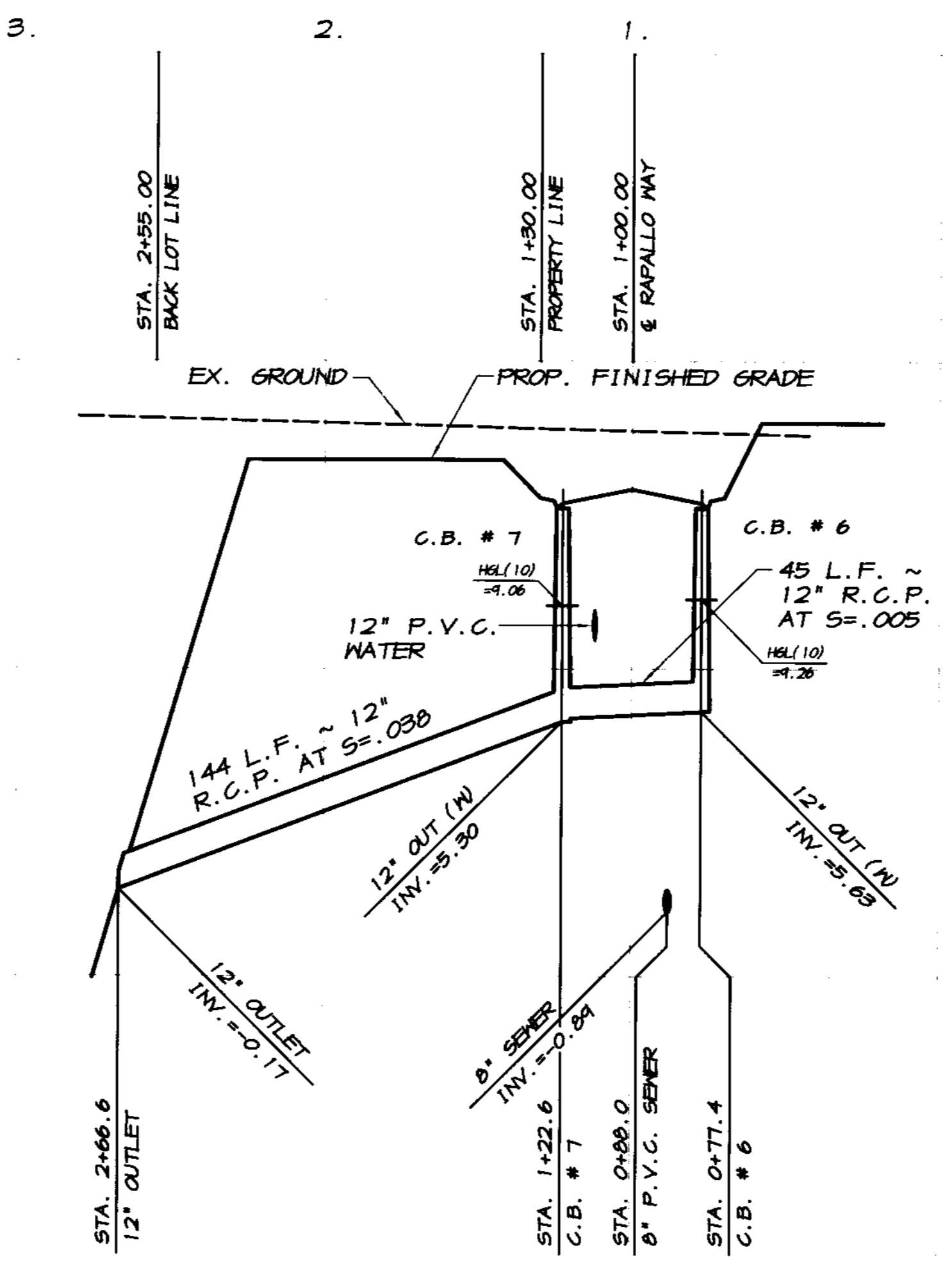
SCALE: 1"=40'

**RECORD DRAWING**

Corrections By: ED Canal  
 No Changes  
 Date: 3/12/2008  
 Any Person Infringing Thereon, Should Verify Information By Inspecting The Site Of Work



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'



REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
 Surveying • Design • Planning  
 4306 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875



PLAN AND PROFILE  
**STORM DRAIN OUTFALL LINES**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

**ED Canal**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

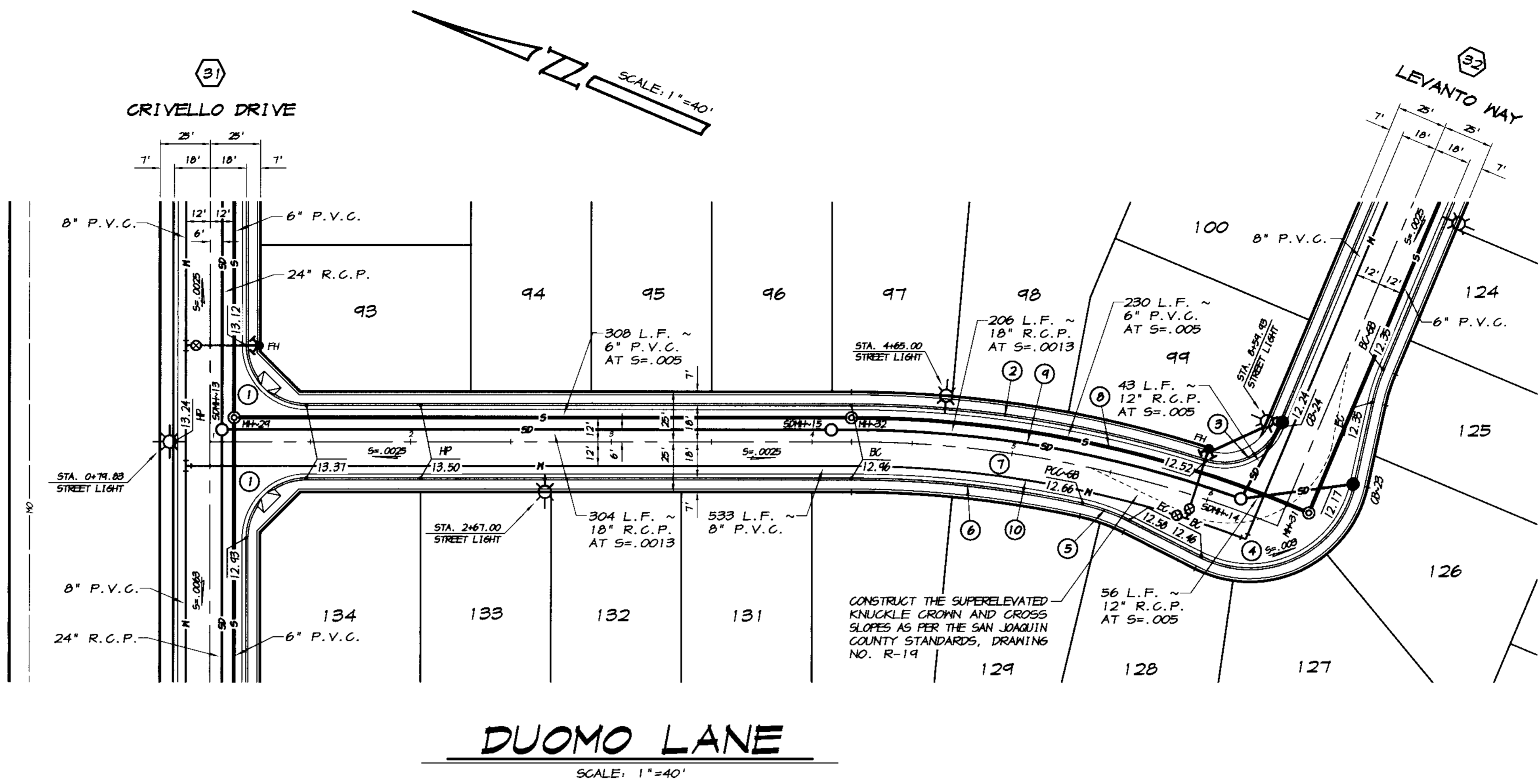


DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: NOTED  
 DWG: 246-SDOF  
 CHECKED: KM  
 JOB #: 246-03

SHEET **36**  
 OF **45**



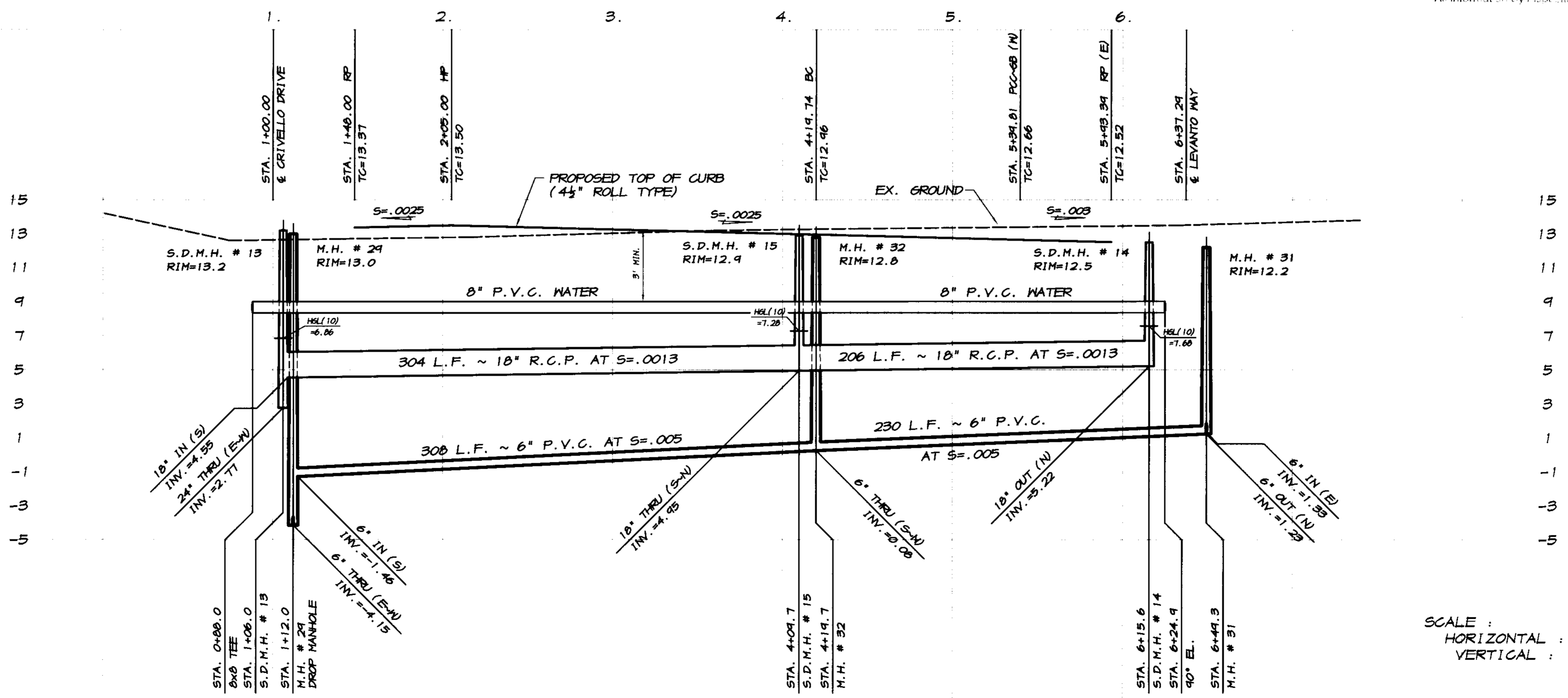
CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
1	90°00'00"	30.00'	47.12'	42.43'	30.00'	FL
2	17°46'02"	570.00'	174.23'	170.52'	90.34'	FL
3	85°01'06"	30.00'	44.52'	40.54'	27.50'	FL
4	104°36'11"	53.00'	96.76'	83.87'	60.50'	FL
5	14°41'07"	47.00'	24.86'	24.79'	12.50'	FL
6	12°17'03"	542.00'	116.21'	115.98'	58.33'	FL
7	22°15'24"	560.00'	217.55'	216.18'	110.16'	CL
8	22°53'07"	572.00'	228.47'	226.96'	115.78'	S
9	19°44'22"	566.00'	195.00'	194.04'	98.46'	SD
10	20°54'32"	548.00'	200.78'	199.66'	101.53'	N



**CATCH BASIN DATA**

12" INV. AT C.B. #23 = 6.00
56 L.F. ~ 12" R.C.P. AT S=.005
12" INV. AT S.D.M.H. #14 = 5.72
12" INV. AT C.B. #24 = 5.94
43 L.F. ~ 12" R.C.P. AT S=.005
12" INV. AT S.D.M.H. #14 = 5.72

**RECORD DRAWING**  
 Date: 3/12/2008  
 Any Project: [Signature]  
 All information By Issuing the Site of Work



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

BY	
DESCRIPTION	
DATE	
REVISION	

**ASSOCIATED ENGINEERING, INC.**  
 Surveying - Design - Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

**PLAN AND PROFILE**  
**DUOMO LANE**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

**RECORD DRAWING**  
 Date: 3/12/2008  
 Any Project: [Signature]  
 All information By Issuing the Site of Work

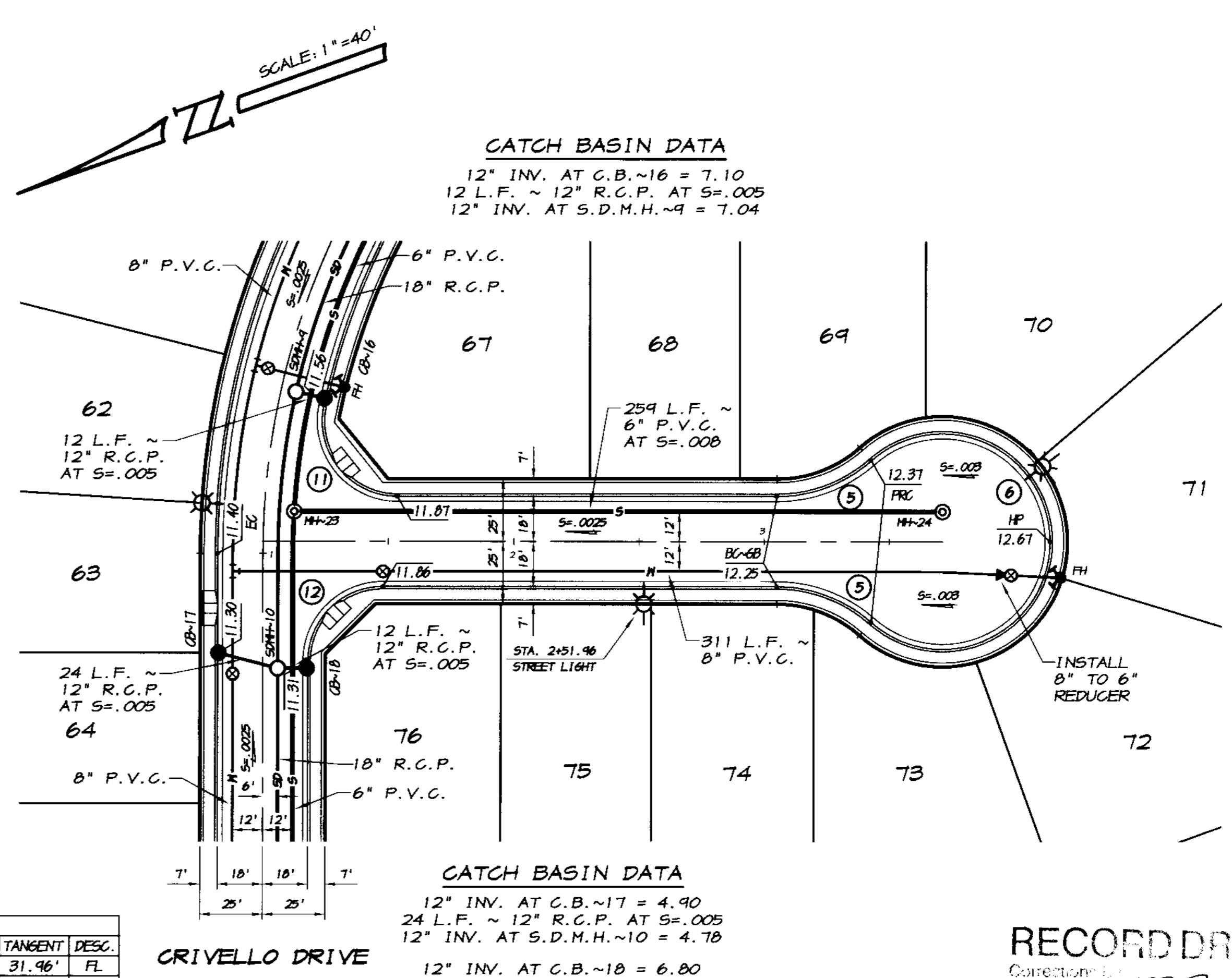
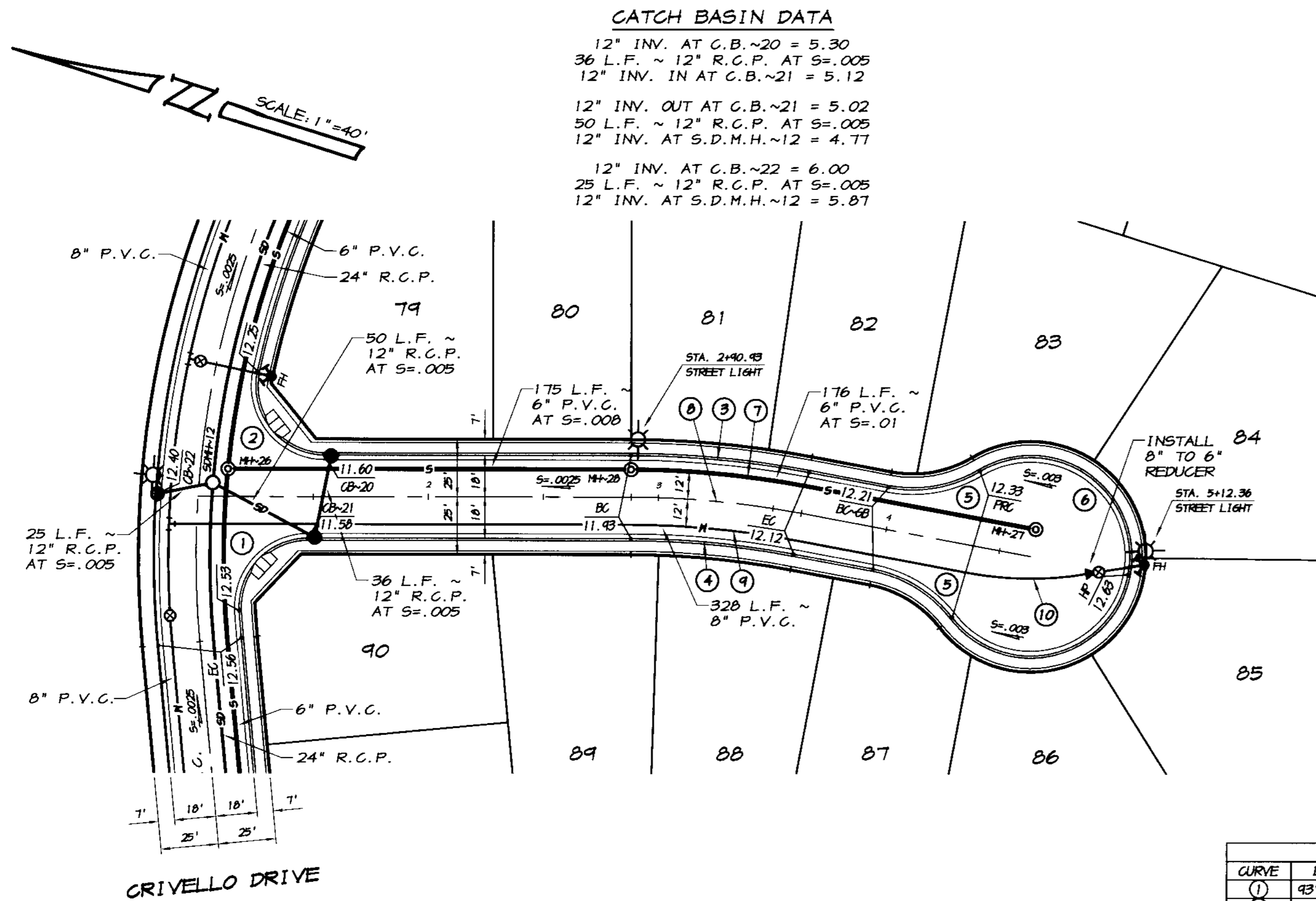
**RYAN CARREL, P.E. 61619**  
 DANIEL ENGLAND, R.C.E. #9005  
 DAVE SKIDMORE, L.S. 7126

**REGISTERED PROFESSIONAL ENGINEER**  
 RYAN D. CARREL  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: NOTED  
 DWG: 296-ELPP  
 CHECKED: KN  
 JOB #: 296-03

SHEET **34** OF 45

SU 3881

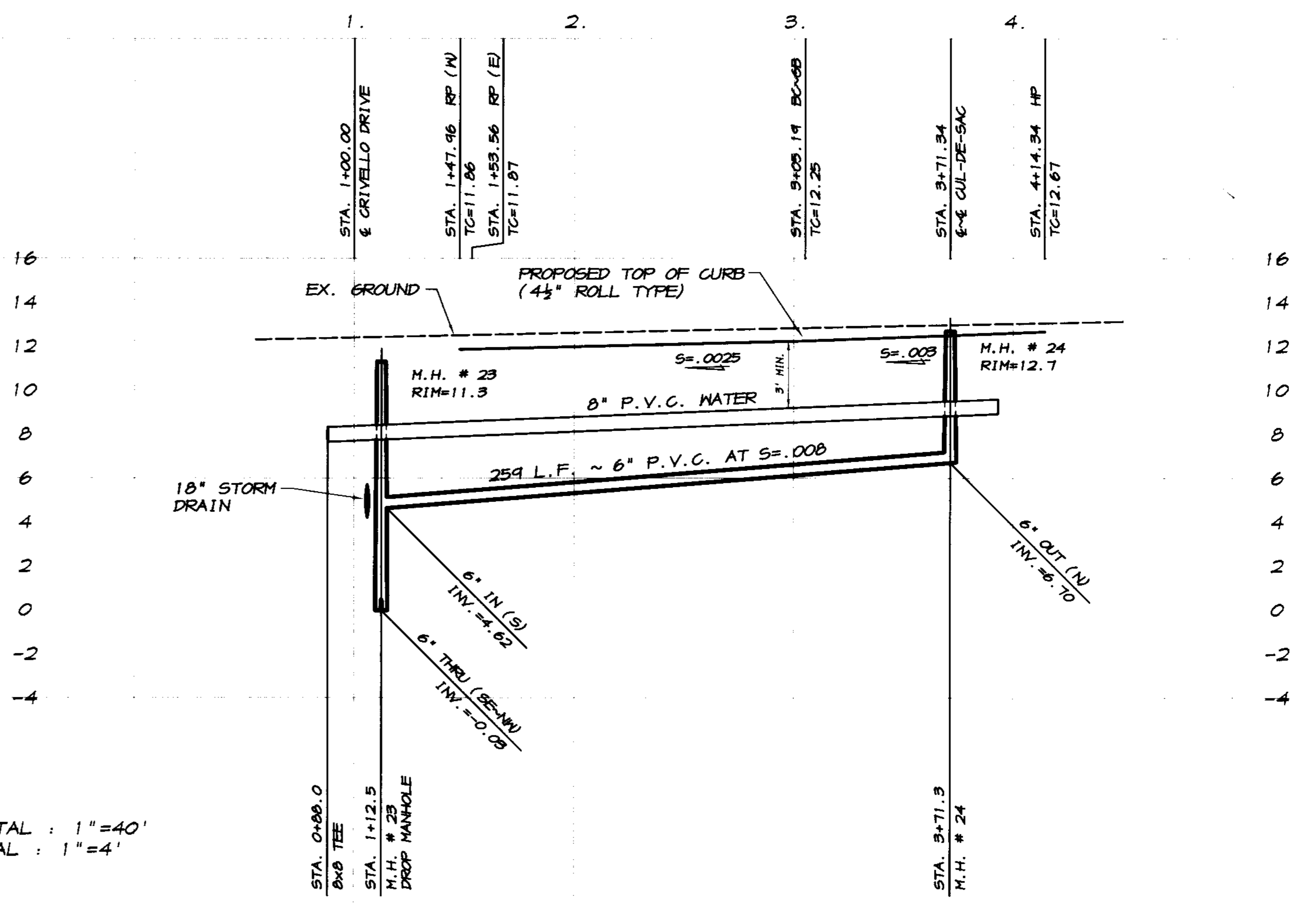
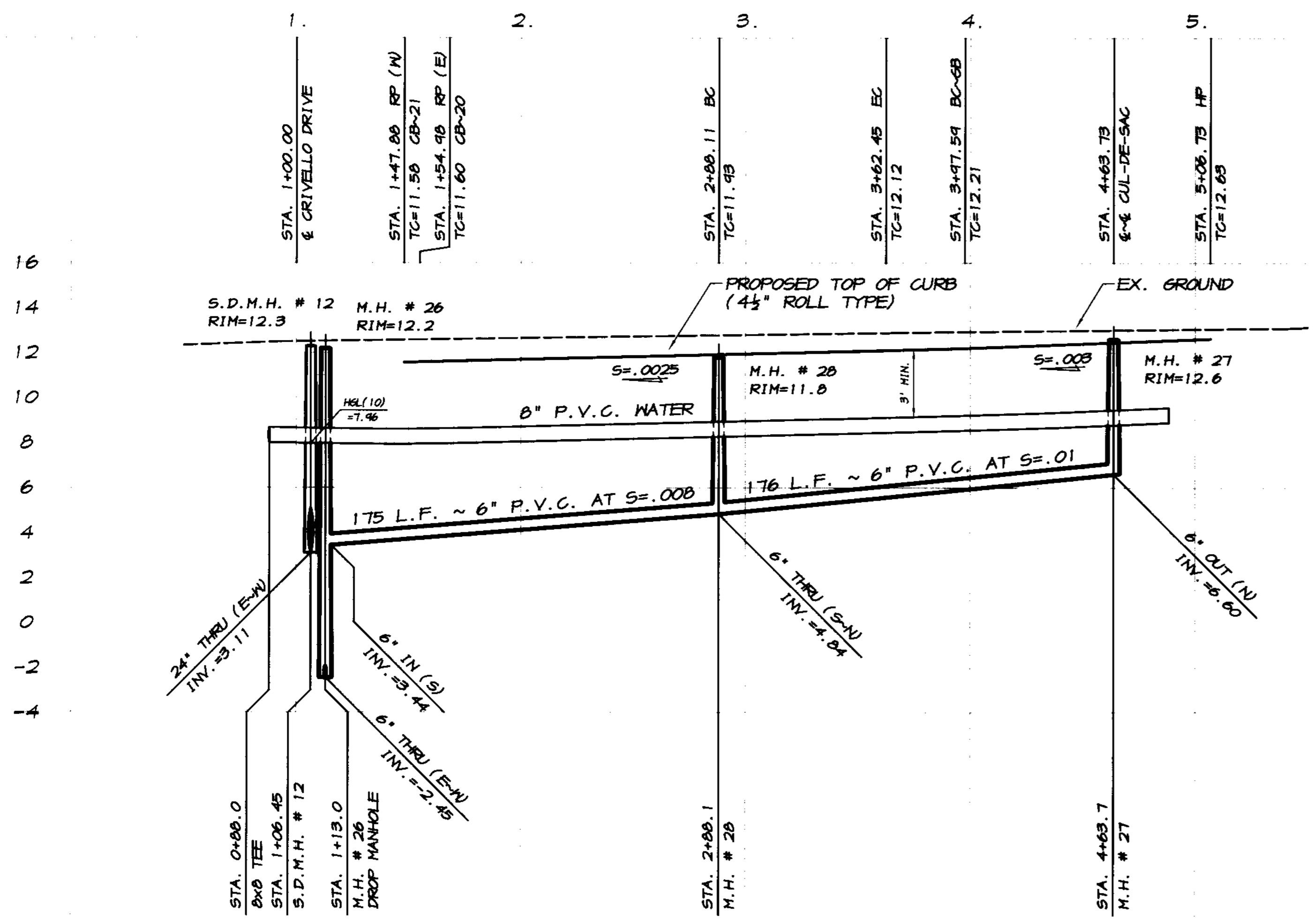


CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
(1)	93°37'53"	30.00'	49.03'	43.75'	31.96'	FL
(2)	102°05'12"	30.00'	53.45'	46.66'	37.10'	FL
(3)	10°30'56"	418.00'	77.69'	71.50'	38.96'	FL
(4)	10°30'56"	388.00'	71.00'	70.89'	35.60'	FL
(5)	41°24'35"	57.00'	41.20'	40.31'	21.54'	FL
(6)	262°49'09"	43.00'	197.24'	64.50'	40.76'	FL
(7)	10°14'34"	412.00'	73.65'	73.55'	36.42'	S
(8)	10°30'56"	400.00'	74.34'	74.24'	37.28'	GL
(9)	10°30'56"	388.00'	72.11'	72.01'	36.16'	H
(10)	19°42'57"	150.00'	51.62'	51.36'	26.07'	H
(11)	102°06'10"	30.00'	53.46'	46.66'	37.11'	FL
(12)	90°00'00"	30.00'	47.12'	42.43'	30.00'	FL

**CAMOGLI COURT**

**LIVORNO COURT**

**RECORD DRAWING**  
 No Change  
 Date 3/12/2008  
 Any Person Using this Drawing without the Consent of the Designer is Doing So at Their Own Risk.  
 All Information By Inspecting the Site or Work



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

BY	
DATE	
REVISION	
DESCRIPTION	

**ASSOCIATED ENGINEERING, INC.**  
 Surveying - Design - Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

**RECORD DRAWING**

PLAN AND PROFILE  
**CAMOGLI COURT & LIVORNO COURT**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

**RYAN CARREL**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKOTSMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 RYAN D. CARREL  
 No. 61619  
 Exp. 6-30-07  
 ONE  
 STATE OF CALIFORNIA

DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: NOTED  
 DWG: 296-KJC  
 CHECKED: KH  
 JOB #: 296-03  
 SHEET **33** OF **45**

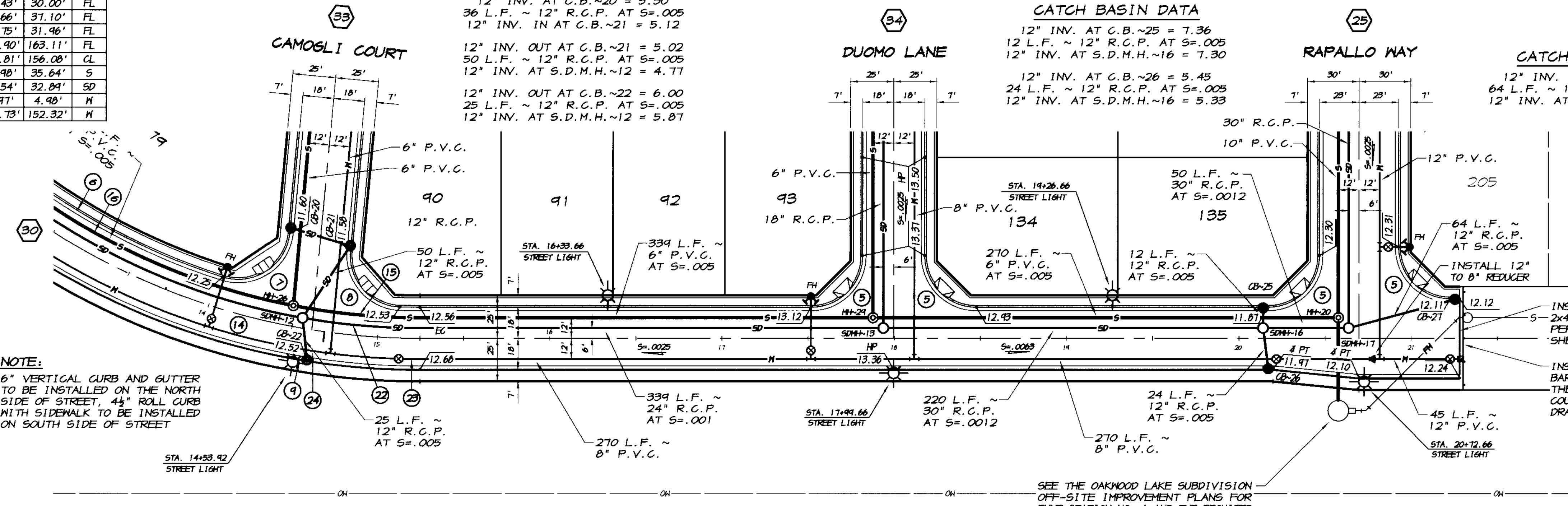


CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
(5)	90°00'00"	30.00'	47.12'	42.43'	30.00'	FL
(7)	102°05'12"	30.00'	53.45'	46.66'	31.10'	FL
(8)	93°37'53"	30.00'	44.03'	43.75'	31.46'	FL
(9)	42°37'57"	418.00'	311.02'	303.90'	163.11'	FL
(4)	42°37'57"	400.00'	247.63'	240.81'	156.08'	CL
(5)	10°29'44"	386.00'	71.08'	70.48'	35.64'	S
(2)	9°32'32"	344.00'	65.62'	65.34'	32.84'	SD
(3)	1°23'11"	412.00'	9.97'	9.97'	4.98'	N
(2)	40°34'43"	412.00'	241.74'	285.73'	152.32'	N

**CATCH BASIN DATA**  
 12" INV. AT C.B.~20 = 5.30  
 36 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. IN AT C.B.~21 = 5.12  
 12" INV. OUT AT C.B.~21 = 5.02  
 50 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~12 = 4.77  
 12" INV. OUT AT C.B.~22 = 6.00  
 25 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~12 = 5.87

**CATCH BASIN DATA**  
 12" INV. AT C.B.~25 = 7.36  
 12 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~16 = 7.30  
 12" INV. AT C.B.~26 = 5.45  
 24 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~16 = 5.33

**CATCH BASIN DATA**  
 12" INV. AT C.B.~27 = 5.38  
 64 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~17 = 5.06



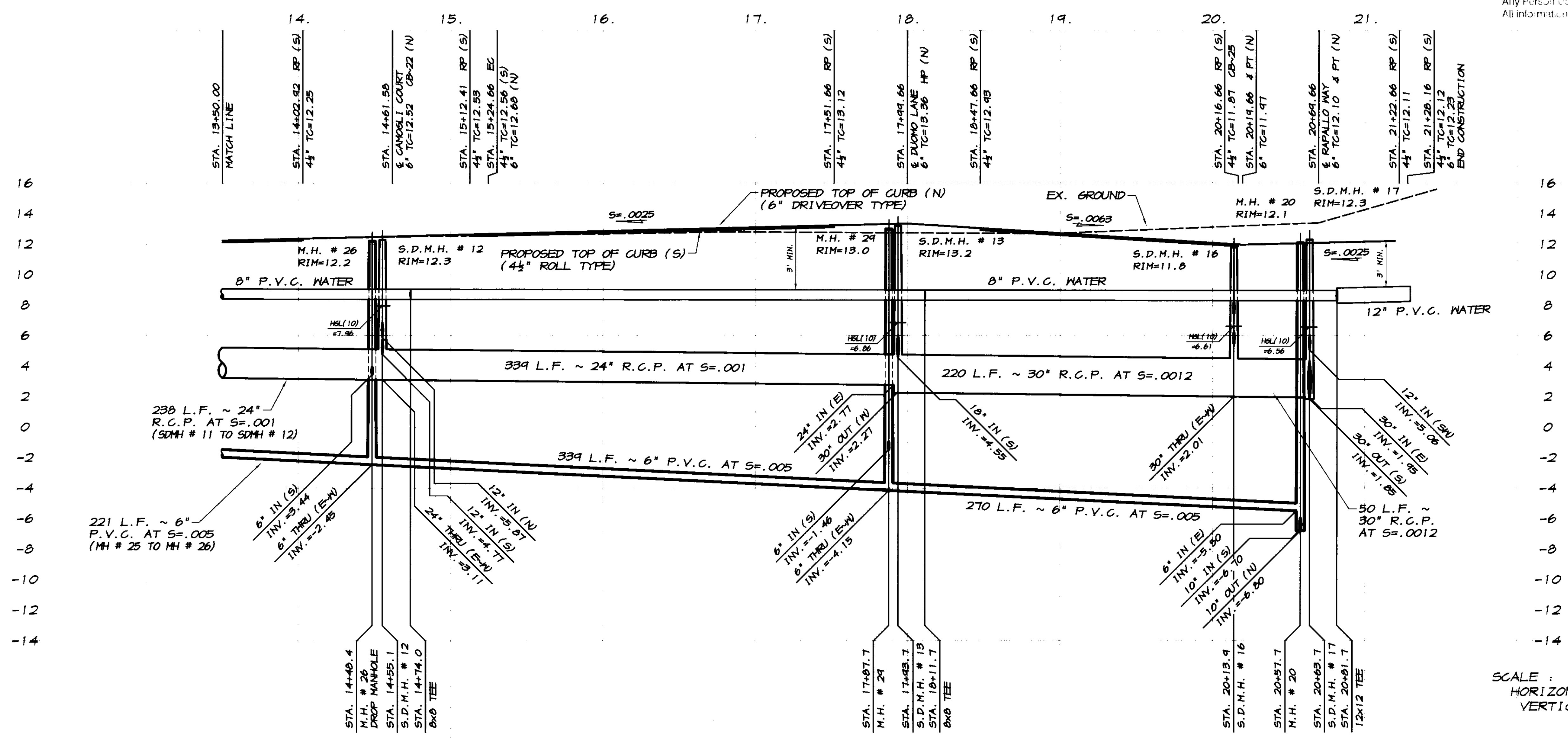
**NOTE:**  
 6" VERTICAL CURB AND GUTTER TO BE INSTALLED ON THE NORTH SIDE OF STREET, 4 1/2" ROLL CURB WITH SIDEWALK TO BE INSTALLED ON SOUTH SIDE OF STREET

SEE THE OAKWOOD LAKE SUBDIVISION OFF-SITE IMPROVEMENT PLANS FOR PUMP STATION NO. 1 AND THE REQUIRED OUTFALL. THE CONTRACTOR SHALL COORDINATE THE OFF-SITE CONSTRUCTION WITH THE IMPROVEMENTS AS SHOWN ON THESE PLANS

INSTALL 42 L.F. ~ 2x4 HEADERBOARD AS PER DETAIL, SEE SHEET 19  
 INSTALL 60 L.F. ~ BARRICADE AS PER THE SAN JOAQUIN COUNTY STANDARDS, DRAWING NO. R-24  
 45 L.F. ~ 12" P.V.C.

**CRIVELLO DRIVE**  
 SCALE: 1"=40'

**RECORD DRAWING**  
 Corrections by: *[Signature]*  
 No Change by: *[Signature]*  
 Date: 3/12/2009  
 Any Person Using This Drawing Should Verify All Information by Inspecting The Site Of Work



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

BY	
DATE	
DESCRIPTION	
REVISION	

**ASSOCIATED ENGINEERING, INC.**  
 Surveying • Design • Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

**PLAN AND PROFILE**  
 STA. 13+50 TO STA. 21+50  
**CRIVELLO DRIVE**  
 OAKWOOD LAKE SUBDIVISION, UNIT 2  
 SAN JOAQUIN COUNTY CALIFORNIA

*[Signature]*  
 RYAN CARROLL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49806  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

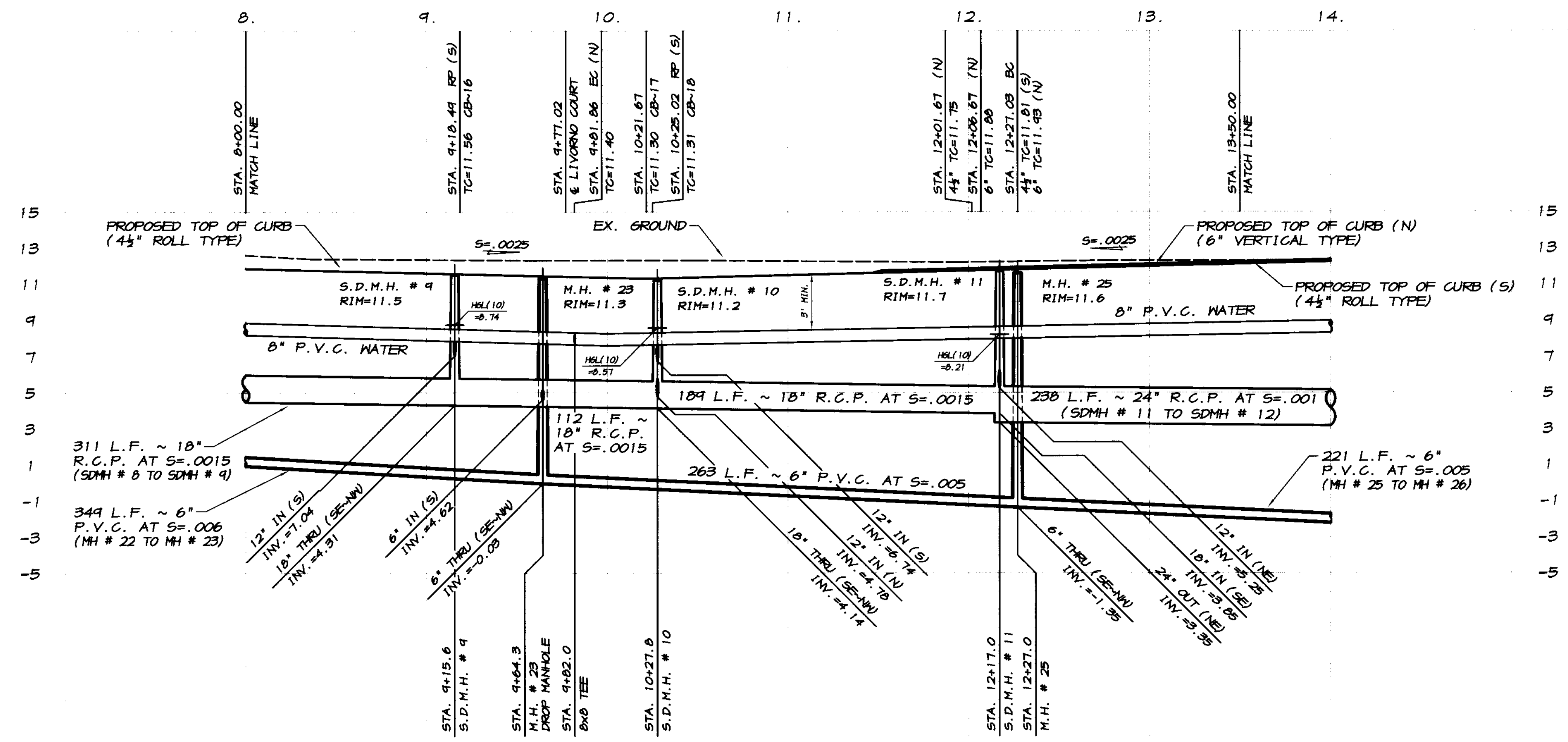
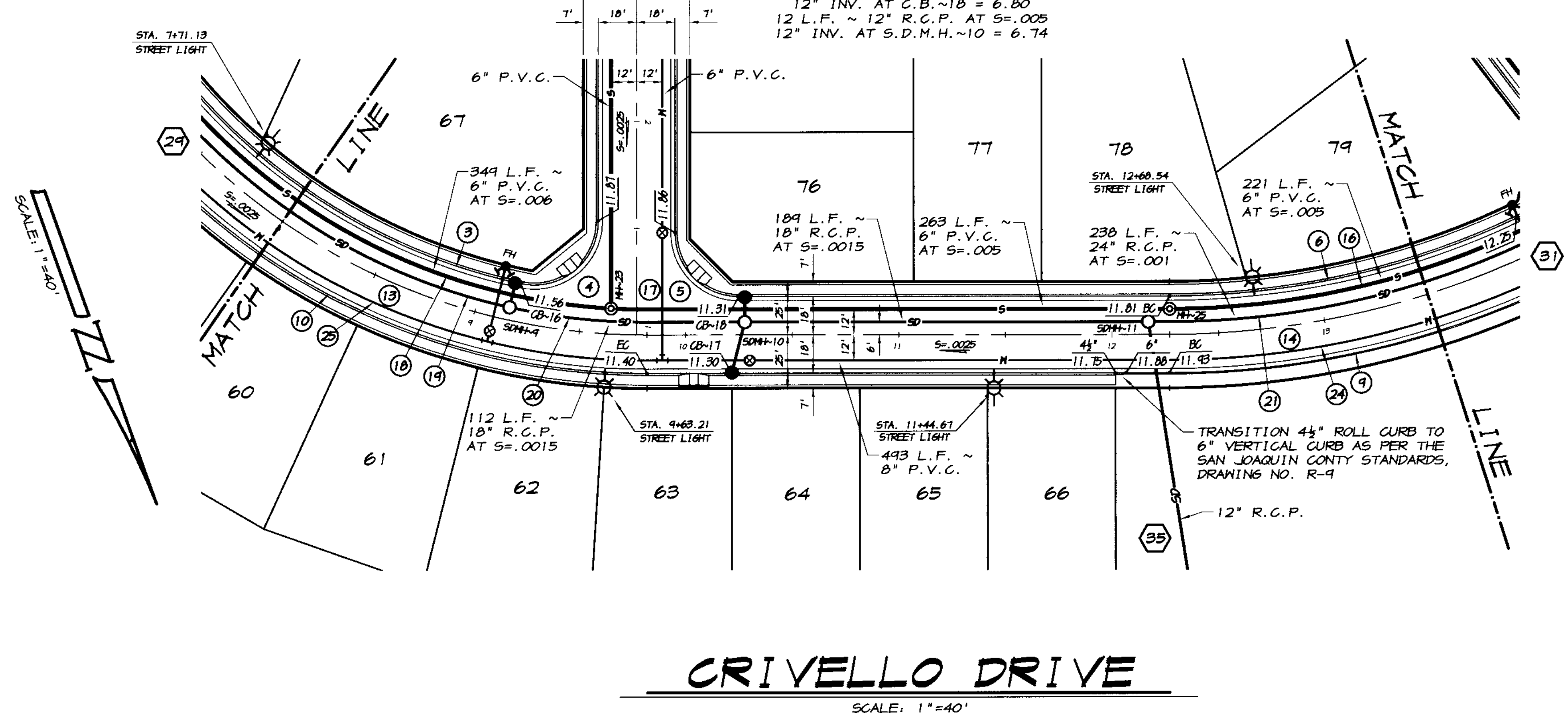
DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: NOTED  
 OWS: 296-BDPP  
 CHECKED: KH  
 JOB #: 296-03

SHEET **31**  
 OF 45

CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
(3)	51°57'42"	202.00'	205.20'	273.27'	156.19'	FL
(4)	102°06'10"	30.00'	53.46'	46.66'	37.11'	FL
(5)	90°00'00"	30.00'	47.12'	42.43'	30.00'	FL
(6)	25°11'40"	302.00'	167.47'	166.62'	85.37'	FL
(7)	102°05'12"	30.00'	53.45'	46.66'	37.10'	FL
(8)	42°37'57"	418.00'	311.02'	303.90'	163.11'	FL
(9)	70°03'52"	318.00'	300.87'	365.04'	222.43'	FL
(10)	70°03'52"	300.00'	366.86'	344.42'	210.31'	CL
(11)	42°37'57"	400.00'	297.63'	290.81'	156.08'	CL
(12)	30°50'31"	300.00'	208.86'	206.34'	107.03'	S
(13)	2°46'13"	200.00'	13.93'	13.92'	6.46'	S
(14)	65°33'05"	200.00'	324.50'	311.82'	185.43'	S
(15)	56°50'04"	244.00'	291.63'	279.82'	154.08'	SD
(16)	12°05'30"	244.00'	62.05'	61.93'	31.14'	SD
(17)	32°14'27"	344.00'	221.71'	218.79'	113.87'	SD
(18)	40°34'43"	412.00'	291.79'	285.73'	152.32'	N
(19)	70°03'52"	312.00'	301.53'	350.20'	218.73'	N

**CATCH BASIN DATA**  
 12" INV. AT C.B.~16 = 7.10  
 12 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~9 = 7.04

**CATCH BASIN DATA**  
 12" INV. AT C.B.~17 = 4.90  
 24 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~10 = 4.78  
 12" INV. AT C.B.~18 = 6.80  
 12 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~10 = 6.74



**RECORD DRAWING**  
 Corrections By: *[Signature]*  
 No Changes By: *[Signature]*  
 Date: 3/12/2008  
 Any Field Use Without Verifying Should Verify  
 All Information Before Entering The Site Of Work

BY: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_

**ASSOCIATED ENGINEERING, INC.**  
 Surveying • Design • Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

**CRIVELLO DRIVE**  
 OAKWOOD LAKE SUBDIVISION, UNIT 2  
 SAN JOAQUIN COUNTY CALIFORNIA

*[Signature]*  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49025  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA  
 No. 61619  
 Exp. 8-30-07

DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: NOTED  
 DWG: 246-BDFPP  
 CHECKED: KN  
 JOB #: 246-03

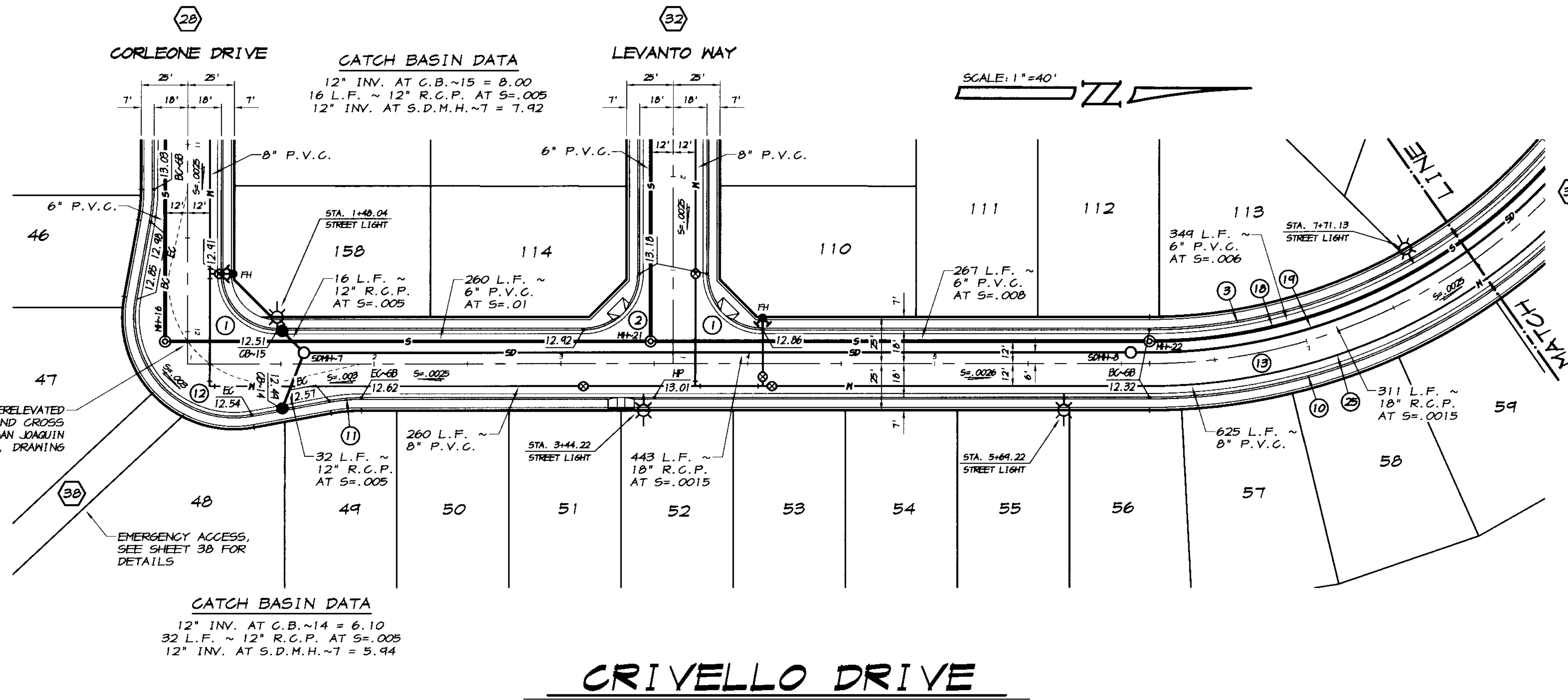
SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

SHEET **30**  
 OF 45



CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
(1)	90°03'07"	30.00'	47.15'	42.45'	30.03'	FL
(2)	84°56'53"	30.00'	47.10'	42.41'	29.97'	FL
(3)	57°57'42"	282.00'	285.20'	273.27'	156.19'	FL
(4)	70°03'52"	318.00'	306.87'	365.04'	222.93'	FL
(5)	10°22'55"	47.00'	17.58'	17.55'	8.81'	FL
(6)	110°48'57"	53.00'	102.51'	87.26'	76.85'	FL
(7)	70°03'52"	300.00'	366.86'	344.42'	210.31'	CL
(8)	65°33'05"	288.00'	324.50'	311.82'	185.43'	S
(9)	56°50'04"	244.00'	241.63'	274.82'	154.06'	SD
(10)	70°03'52"	312.00'	301.53'	358.20'	218.73'	N

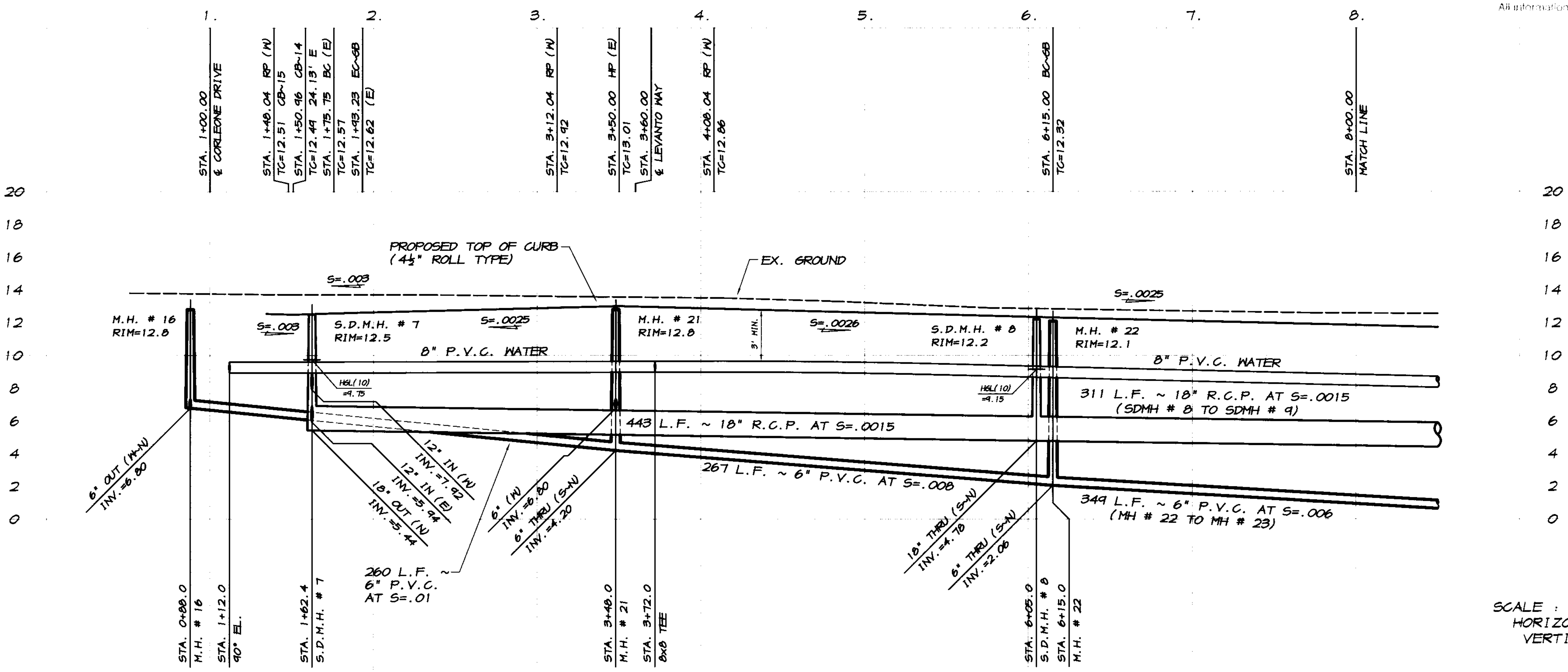
CONSTRUCT THE SUPERELEVATED KNUCKLE CROWN AND CROSS SLOPES AS PER THE SAN JOAQUIN COUNTY STANDARDS, DRAWING NO. R-14



CATCH BASIN DATA  
 12" INV. AT C.B.~14 = 6.10  
 32 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~7 = 5.94

**CRIVELLO DRIVE**  
 SCALE: 1"=40'

**RECORD DRAWING**  
 Corrections By: RD Canal  
 No Changes By: RD Canal  
 Date: 2/12/2008  
 Any Person Using This Drawing Should Verify All Information By Visiting The Site Of Work



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

BY: \_\_\_\_\_  
 REVISION DATE DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
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 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

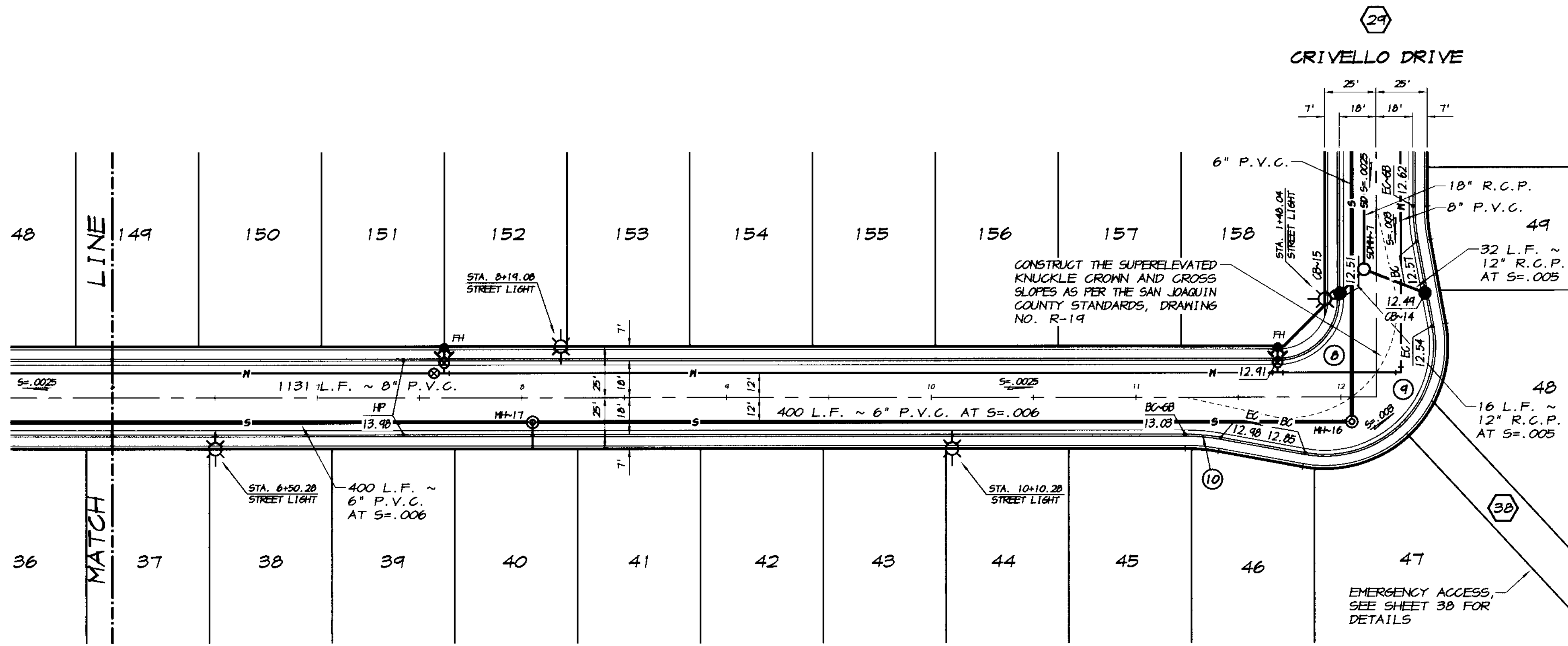
**RD Canal**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49025  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

PLAN AND PROFILE  
 STA. 1+00 TO STA. 8+00  
**CRIVELLO DRIVE**  
 OAKWOOD LAKE SUBDIVISION, UNIT 2  
 SAN JOAQUIN COUNTY CALIFORNIA

DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: NOTED  
 DWG: 296-BDPP  
 CHECKED: KN  
 JOB #: 296-03

SHEET **29**  
 OF 45

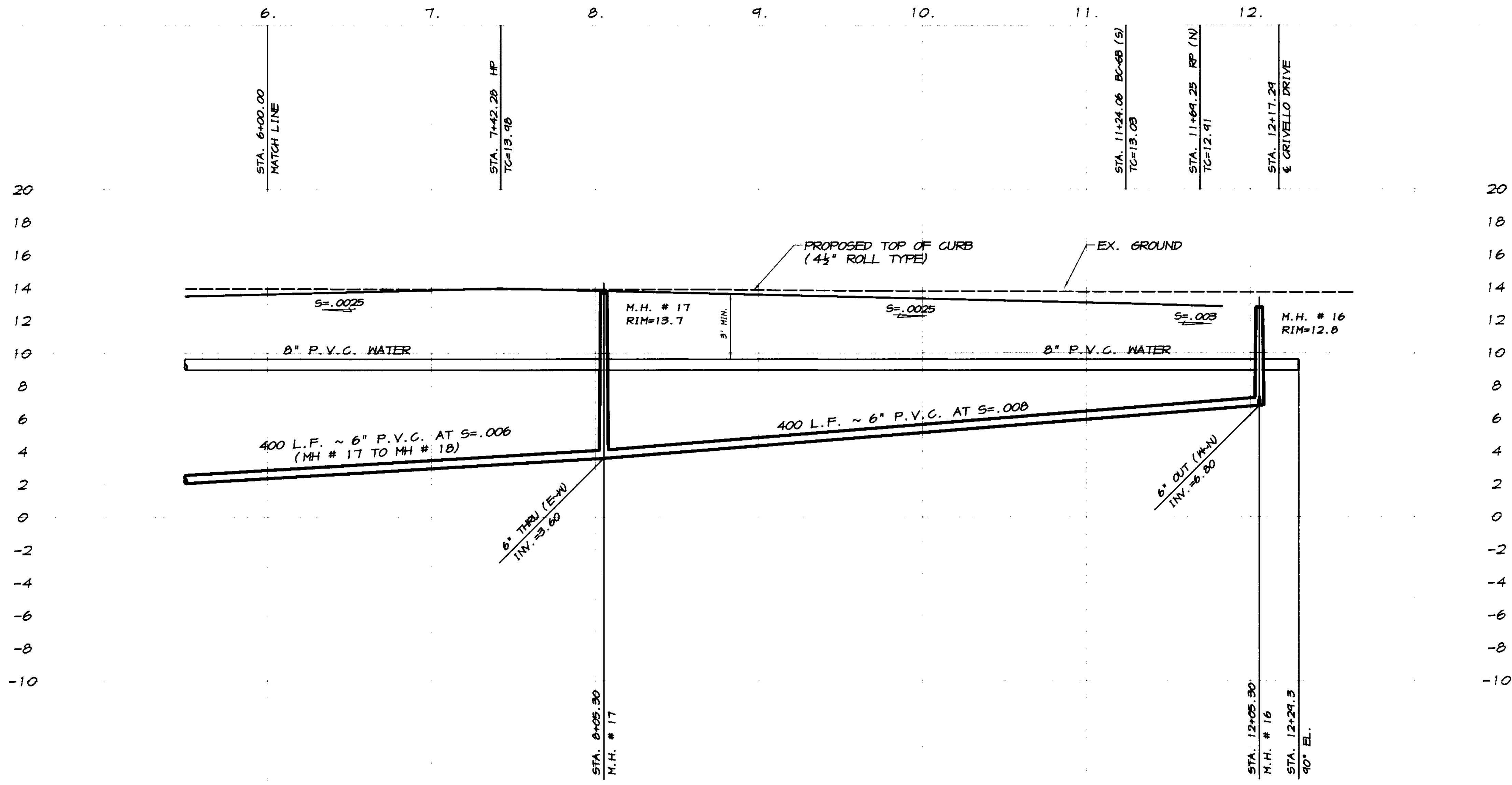


CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
(8)	90°03'07"	30.00'	47.15'	42.45'	30.03'	FL
(9)	110°48'57"	53.00'	102.51'	87.26'	76.85'	FL
(10)	10°22'55"	47.00'	17.58'	17.55'	8.61'	FL

**CORLEONE DRIVE**  
SCALE: 1"=40'

**RECORD DRAWING**

Consolidated by: *[Signature]*  
Date: 3/12/2008



SCALE:  
HORIZONTAL: 1"=40'  
VERTICAL: 1"=4'

BY	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
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PLAN AND PROFILE  
STA. 6+00 TO STA. 12+17.29  
**CORLEONE DRIVE**  
OAKWOOD LAKE SUBDIVISION, UNIT 2  
SAN JOAQUIN COUNTY CALIFORNIA

*[Signature]*  
RYAN CARREL, R.C.E. 61619  
DANIEL ENGLAND, R.C.E. 49026  
DAVE SKIDMORE, L.S. 7126



DRAWN BY: J.S.H.  
DATE: 6/14/05  
SCALE: NOTED  
DWG: 296-MLPP  
CHECKED: KN  
JOB #: 296-03

SHEET **28**  
OF 45

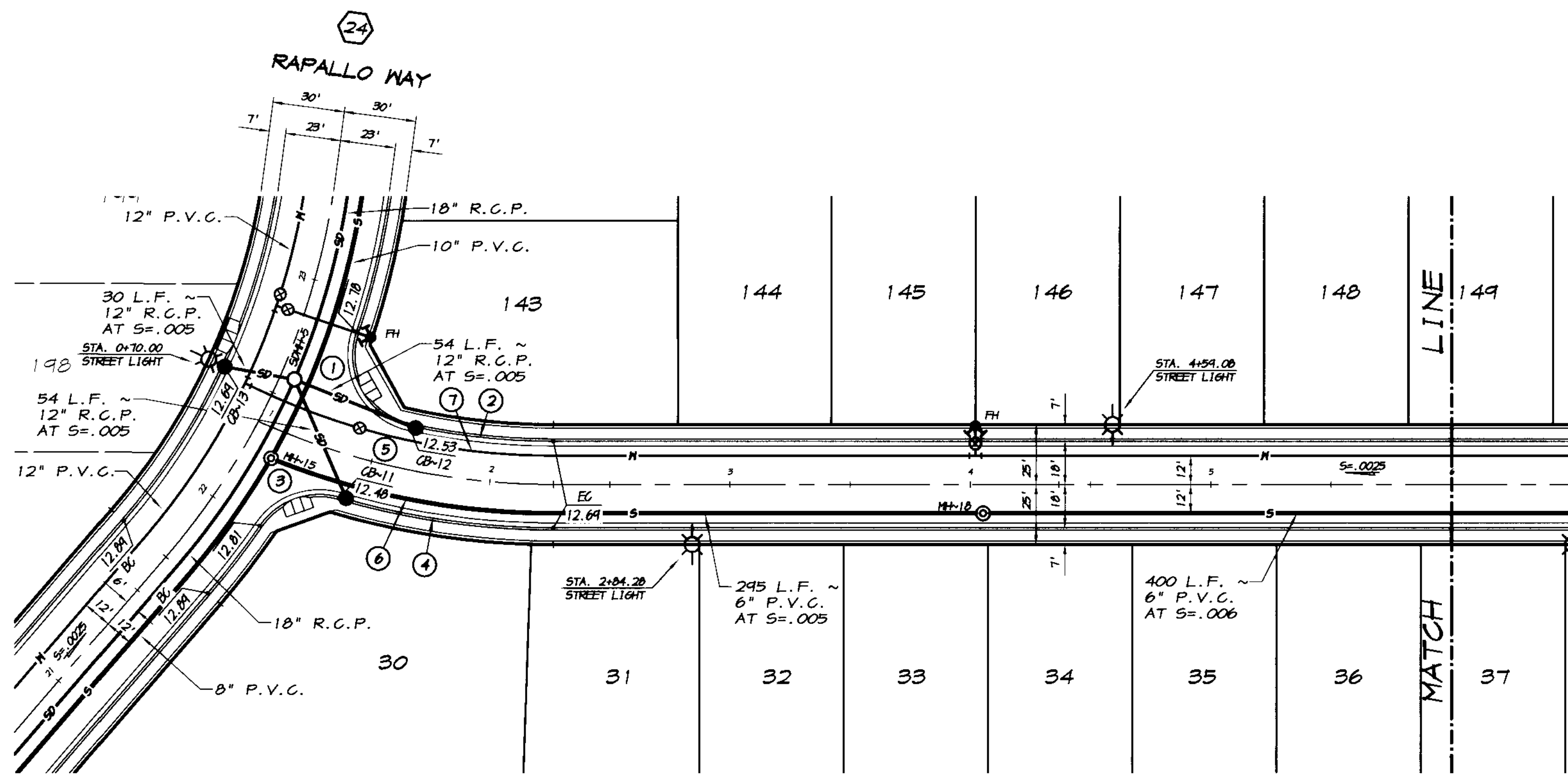
CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
(1)	96°13'41"	30.00'	50.34'	44.67'	33.45'	FL
(2)	12°17'01"	282.00'	60.46'	60.34'	30.35'	FL
(3)	71°45'31"	30.00'	37.57'	35.16'	21.70'	FL
(4)	16°15'24"	318.00'	40.23'	84.43'	45.42'	FL
(5)	24°04'40"	300.00'	126.51'	125.57'	64.21'	CL
(6)	21°35'16"	312.00'	117.55'	116.86'	54.48'	S
(7)	25°26'54"	288.00'	127.42'	126.81'	65.03'	N

**CATCH BASIN DATA**

12" INV. AT C.B. #11 = 5.85  
 54 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H. #5 = 5.58

12" INV. AT C.B. #12 = 5.85  
 54 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H. #5 = 5.58

12" INV. AT C.B. #13 = 5.73  
 30 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H. #5 = 5.58



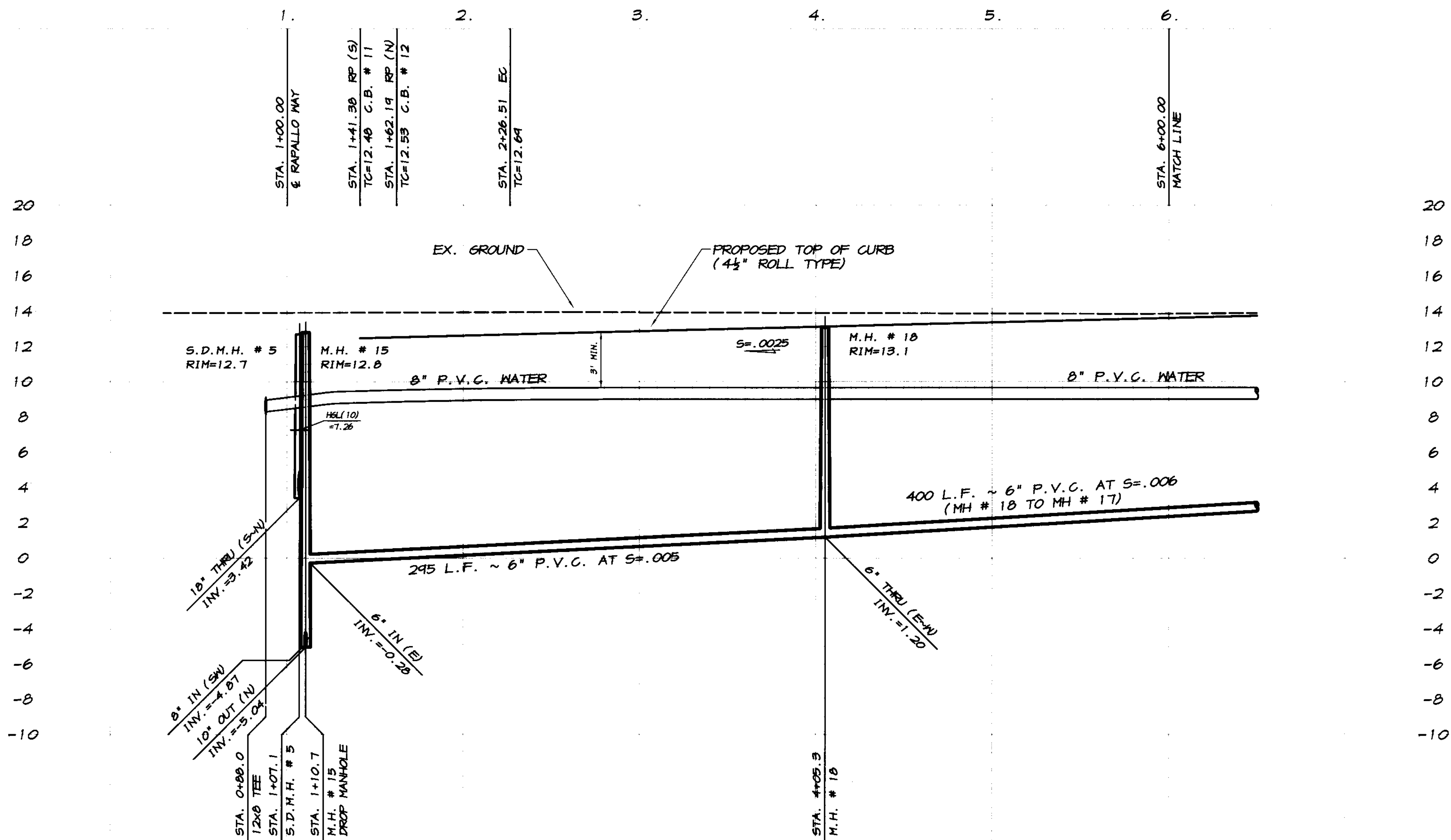
**CORLEONE DRIVE**

SCALE: 1"=40'



**RECORD DRAWING**

Corrections By: *[Signature]*  
 Date: 3/12/2008  
 Approved by: *[Signature]*  
 Date: 3/12/2008



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
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PLAN AND PROFILE  
 STA. 1+00 TO STA. 6+00  
**CORLEONE DRIVE**  
 OAKWOOD LAKE SUBDIVISION, UNIT 2  
 SAN JOAQUIN COUNTY CALIFORNIA

*[Signature]*  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126



DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: NOTED  
 DWG: 296-MLPP  
 CHECKED: KN  
 JOB #: 296-03

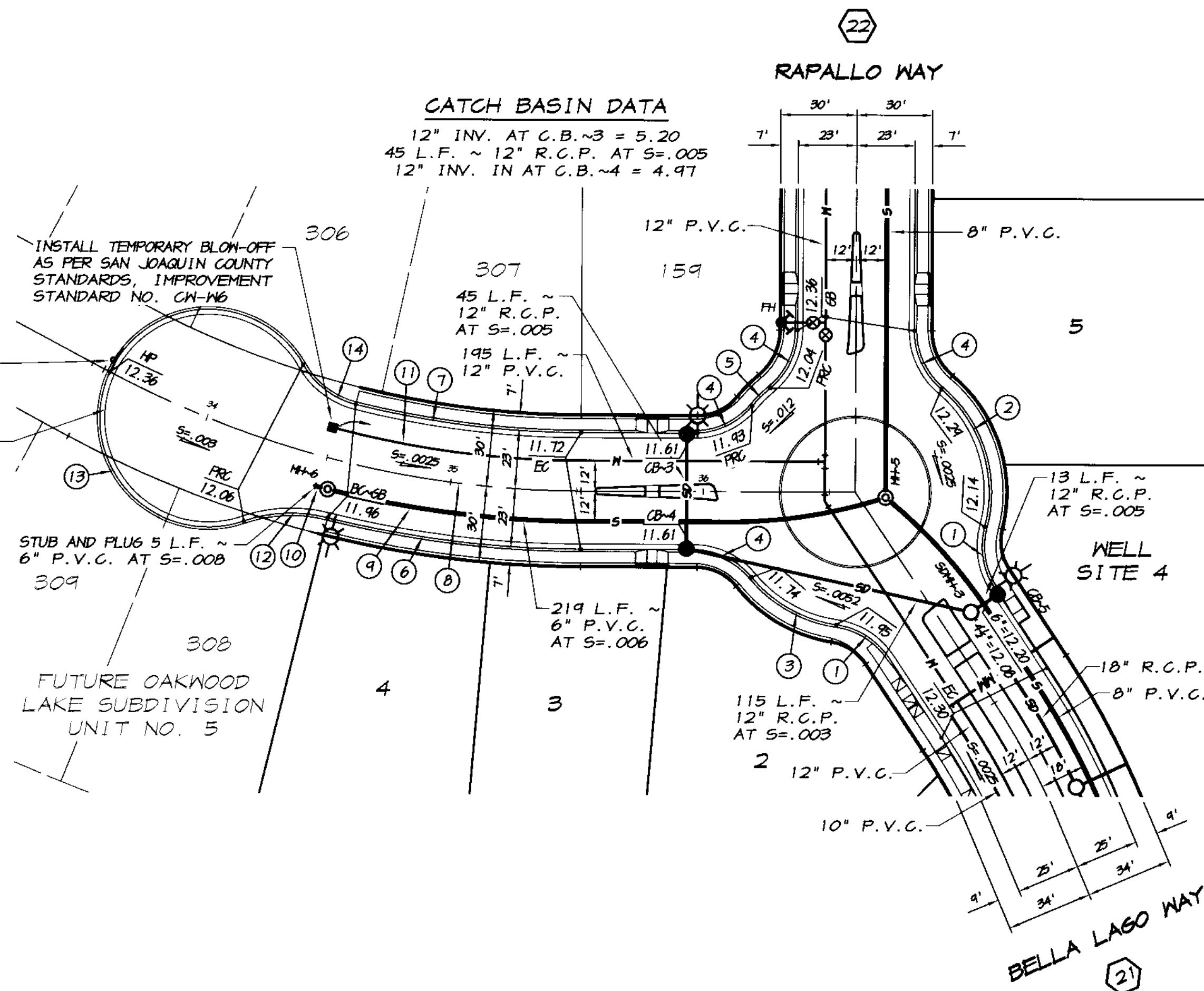
SHEET **27**  
 OF **45**

CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
(1)	40°24'52"	30.00'	25.34'	24.64'	13.51'	FL
(2)	65°04'03"	53.00'	60.19'	57.01'	33.81'	FL
(3)	42°33'34"	53.00'	39.37'	38.47'	20.64'	FL
(4)	50°18'57"	30.00'	26.35'	25.51'	14.09'	FL
(5)	10°37'55"	53.00'	9.83'	9.82'	4.93'	FL
(6)	13°41'48"	423.00'	101.12'	100.88'	50.80'	FL
(7)	13°41'48"	377.00'	90.12'	89.91'	45.28'	FL
(8)	13°41'48"	400.00'	95.62'	95.39'	48.04'	CL
(9)	14°04'45"	412.00'	101.24'	100.99'	50.88'	S
(10)	0°41'43"	412.00'	5.00'	5.00'	2.50'	S
(11)	14°26'06"	300.00'	97.75'	97.44'	49.14'	N
(12)	33°07'23"	57.00'	32.95'	32.44'	16.45'	FL
(13)	29°41'24"	43.00'	194.90'	66.03'	51.53'	FL
(14)	46°34'29"	33.00'	26.87'	26.14'	14.23'	FL

INSTALL A TYPE "B" BARRICADE AS PER THE COUNTY OF SAN JOAQUIN STANDARD DRAWING NO. R-24.

GRADE AND PAVE A TEMPORARY TURNAROUND AS SHOWN USING 0.20' A.C. OVER 0.70' A.B. ON NATIVE COMPACTED TO 95% R.D.

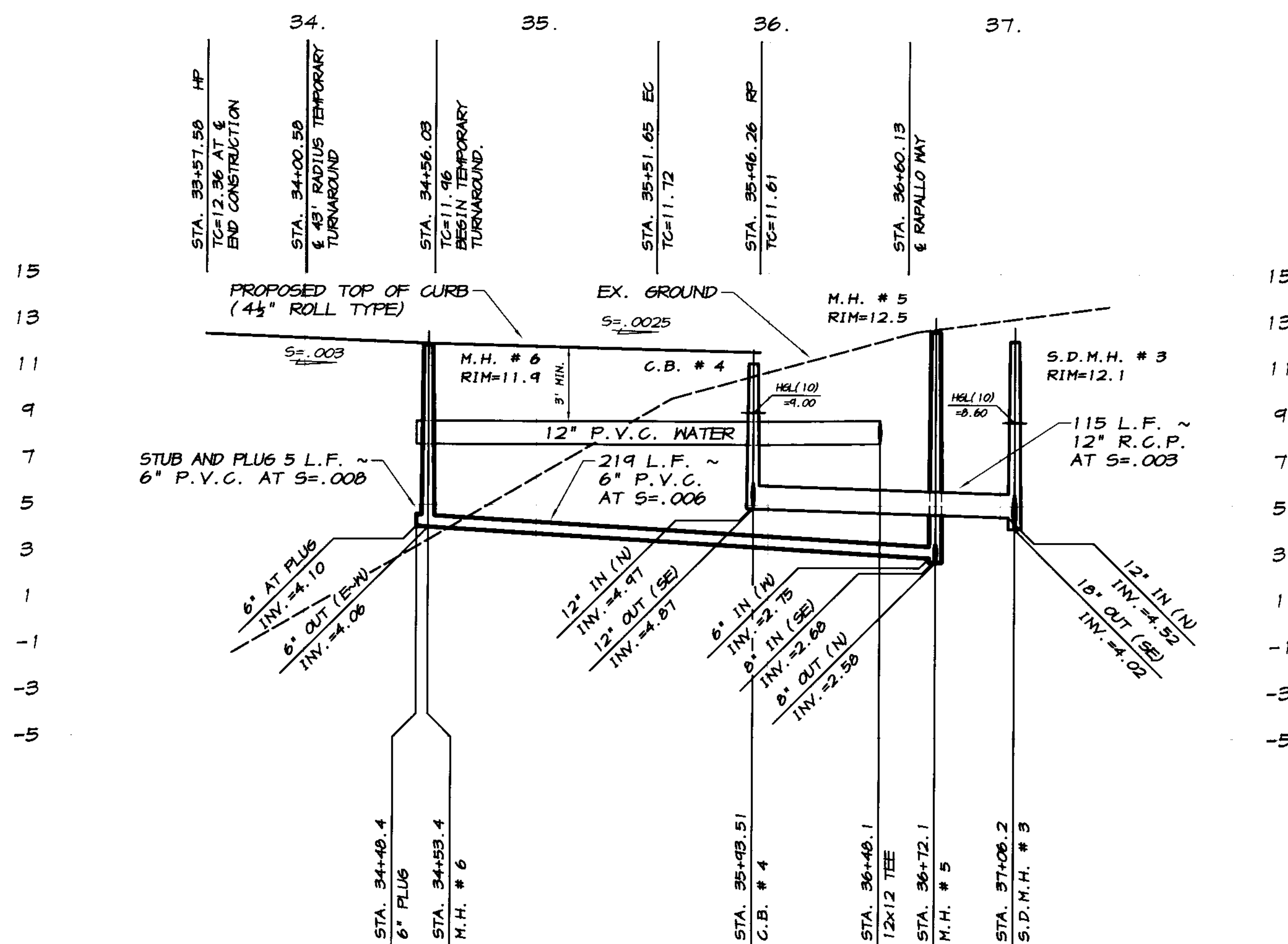
SCALE: 1"=40'



CHIAVARI WAY

SCALE: 1"=40'

CATCH BASIN DATA  
 12" INV. AT C.B.-5 = 7.40  
 13 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.-3 = 7.33



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

RECORD DRAWING

Checked By: R. Carril  
 Date: 7/12/2009  
 All dimensions shown on this drawing should verify with the field notes and the site of work.

ASSOCIATED  
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PLAN AND PROFILE  
 CHIAVARI WAY  
 OAKWOOD LAKE SUBDIVISION, UNIT 2  
 SAN JOAQUIN COUNTY  
 CALIFORNIA

R. Carril  
 RYAN CARRIL, P.E. 51619  
 DANIEL ENGLAND, R.C.E. 49025  
 DAVE SKIDMORE, L.S. 7126

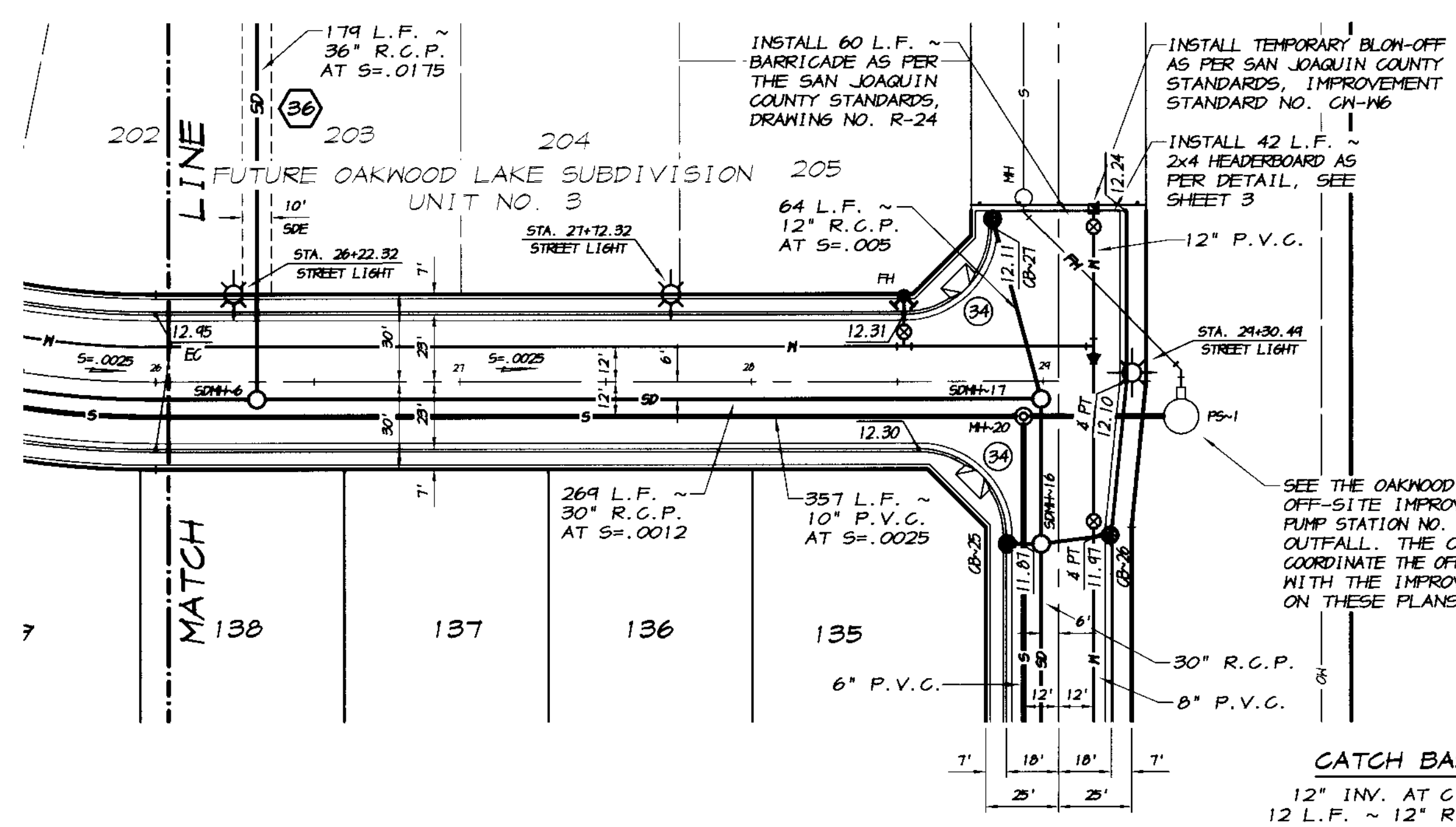


DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: NOTED  
 DWG: 296-SLCP  
 CHECKED: KM  
 JOB #: 296-03

SHEET  
 26  
 OF  
 45

SCALE: 1"=40'

**CATCH BASIN DATA**  
 12" INV. AT C.B.~27 = 5.38  
 64 L.F. ~ 12" R.C.P. AT S=-.005  
 12" INV. AT S.D.M.H.~17 = 5.06

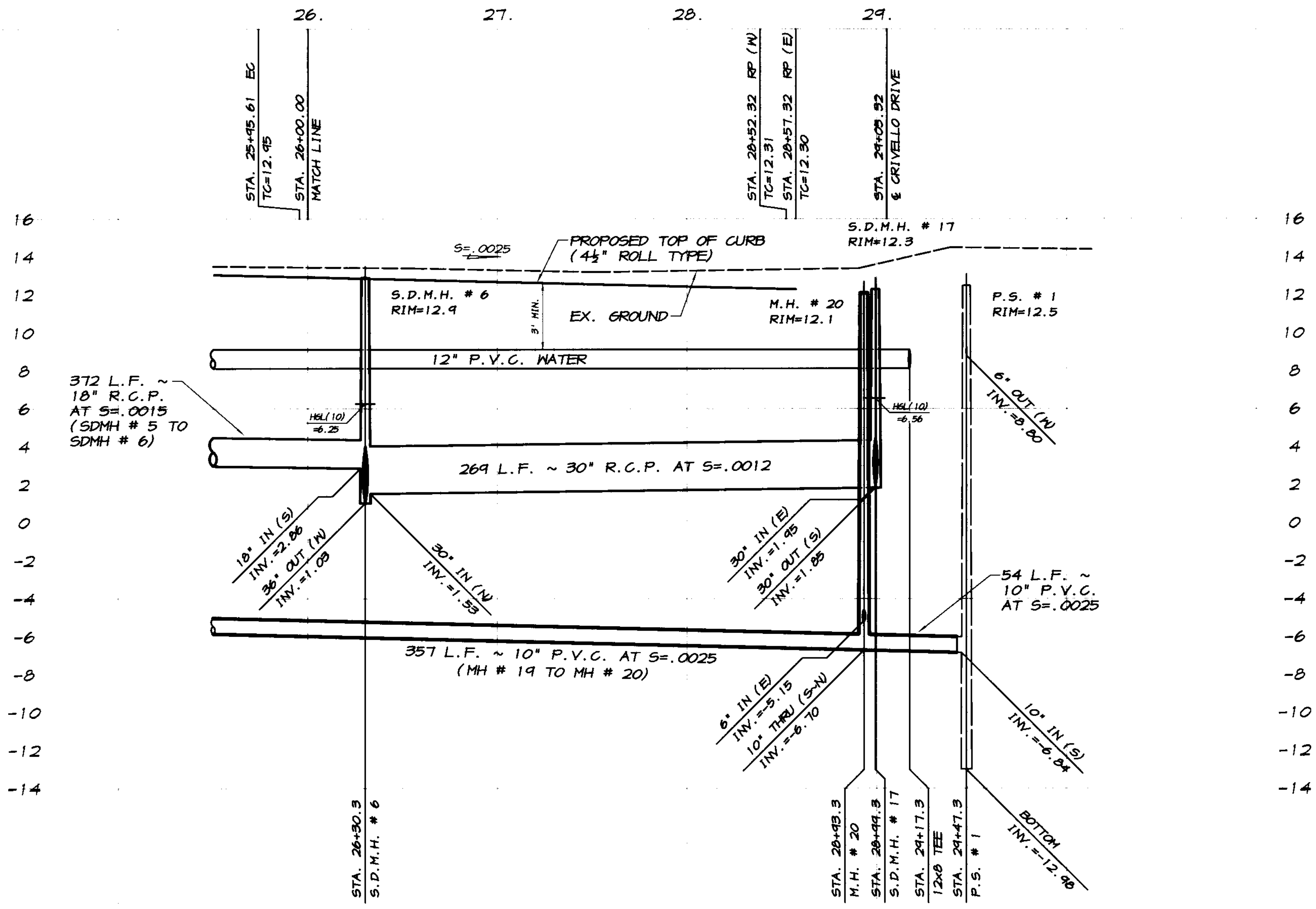


CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
(6)	90°00'00"	30.00'	47.12'	42.43'	30.00'	FL

**CATCH BASIN DATA**  
 12" INV. AT C.B.~25 = 7.36  
 12 L.F. ~ 12" R.C.P. AT S=-.005  
 12" INV. AT S.D.M.H.~16 = 7.30  
 12" INV. AT C.B.~26 = 5.45  
 24 L.F. ~ 12" R.C.P. AT S=-.005  
 12" INV. AT S.D.M.H.~16 = 5.33

**RAPALLO WAY**  
 SCALE: 1"=40'

**RECORD DRAWING**  
 Checked: *PC*  
 Date: 3/12/2008  
 Any Person Using This Drawing Should Verify All Information by Inspecting The Site Of Work



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

BY: \_\_\_\_\_  
 REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

**ASSOCIATED ENGINEERING, INC.**  
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 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

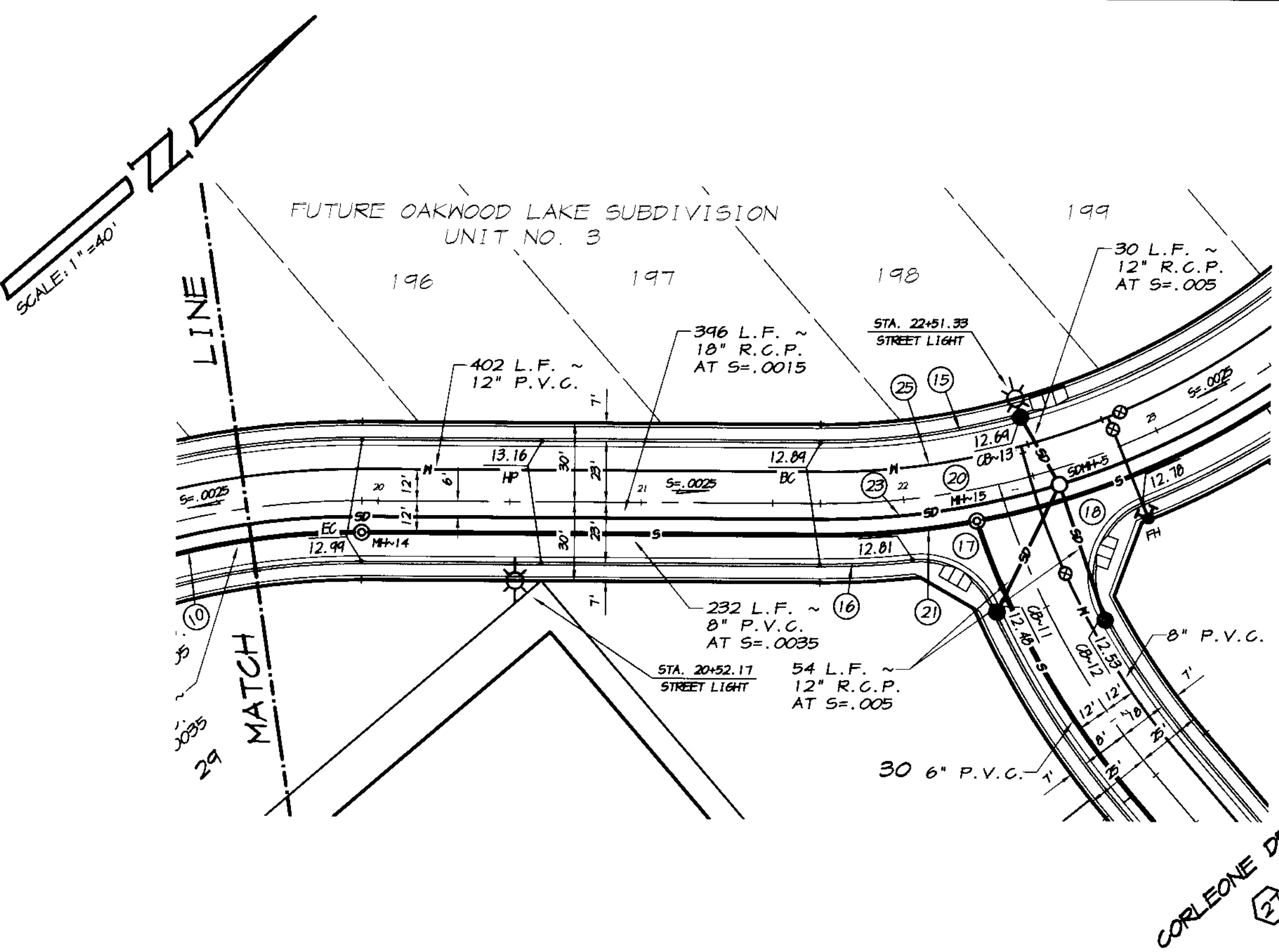
**PLAN AND PROFILE**  
 STA. 26+00 TO STA. 29+05.92  
**RAPALLO WAY**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

*PC*  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: NOTED  
 DWG: 246-ELCPP  
 CHECKED: KN  
 JOB #: 246-03

SHEET **25** OF **45**



CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
(5)	40°50'24"	277.00'	197.44'	193.24'	103.13'	FL
(6)	6°17'19"	323.00'	35.45'	35.43'	17.74'	FL
(7)	71°45'31"	30.00'	37.57'	35.16'	21.70'	FL
(8)	46°13'47"	30.00'	50.39'	44.67'	39.45'	FL
(9)	18°33'55"	323.00'	104.66'	104.20'	52.79'	FL
(10)	40°50'24"	300.00'	213.84'	209.34'	111.64'	CL
(11)	10°29'19"	312.00'	57.11'	57.03'	28.64'	S
(12)	24°16'45"	312.00'	159.44'	157.71'	81.50'	S
(13)	16°43'16"	306.00'	89.30'	88.99'	44.97'	SD
(14)	23°01'32"	306.00'	122.97'	122.15'	62.33'	SD
(15)	22°46'10"	288.00'	114.45'	113.70'	57.99'	N
(16)	17°06'56"	288.00'	86.03'	85.71'	43.34'	N
(17)	22°41'48"	323.00'	127.95'	127.12'	64.83'	FL
(18)	22°41'48"	277.00'	109.73'	109.01'	55.59'	FL
(19)	22°41'48"	300.00'	118.84'	118.06'	60.21'	CL
(20)	10°48'44"	312.00'	58.88'	58.79'	29.53'	S
(21)	10°48'44"	312.00'	58.88'	58.79'	29.53'	S
(22)	22°41'48"	306.00'	121.22'	120.43'	61.41'	SD
(23)	22°41'48"	288.00'	114.09'	113.34'	57.80'	N

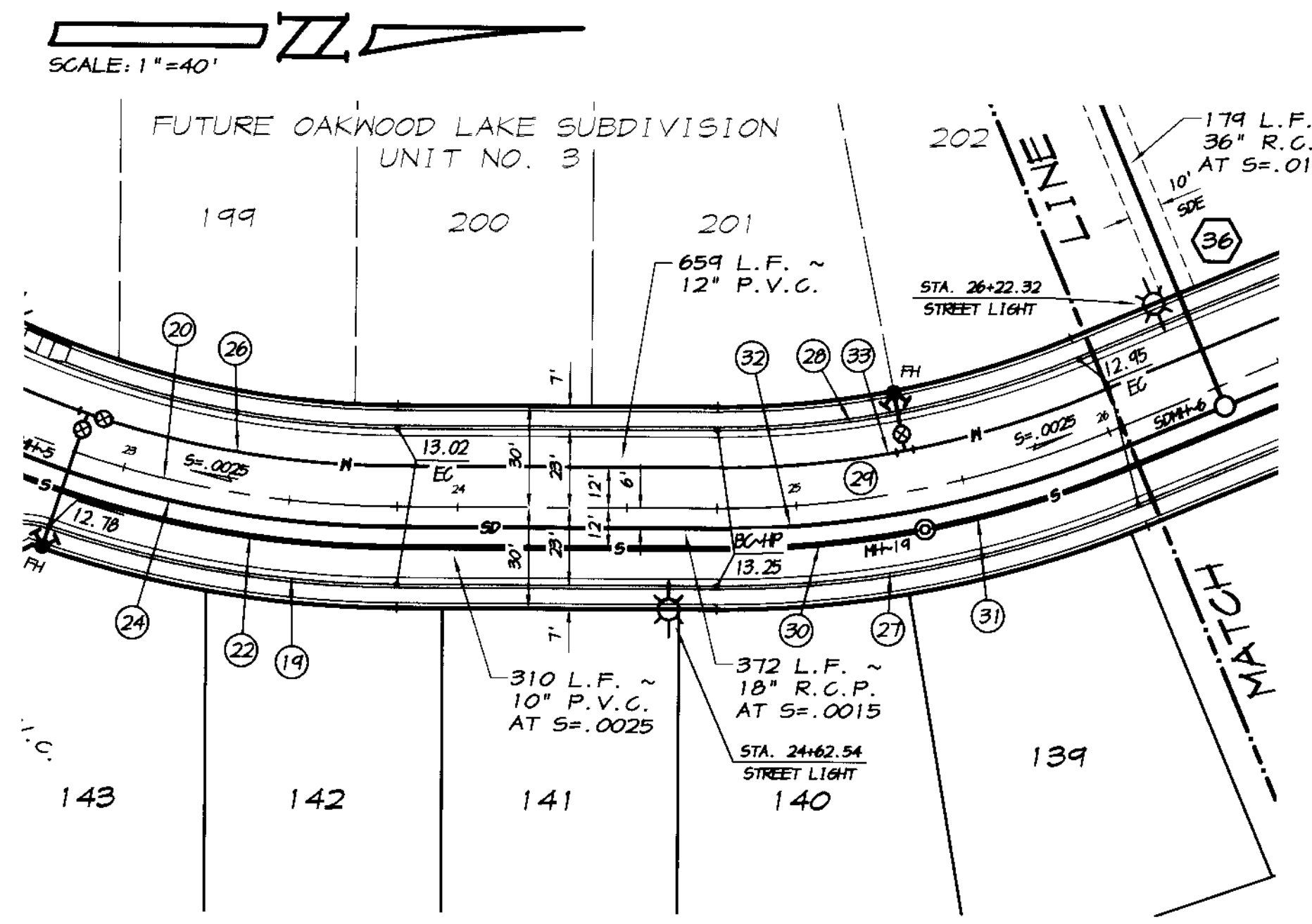
**CATCH BASIN DATA**

12" INV. AT C.B.~11 = 5.85  
 54 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~5 = 5.58

12" INV. AT C.B.~12 = 5.85  
 54 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~5 = 5.58

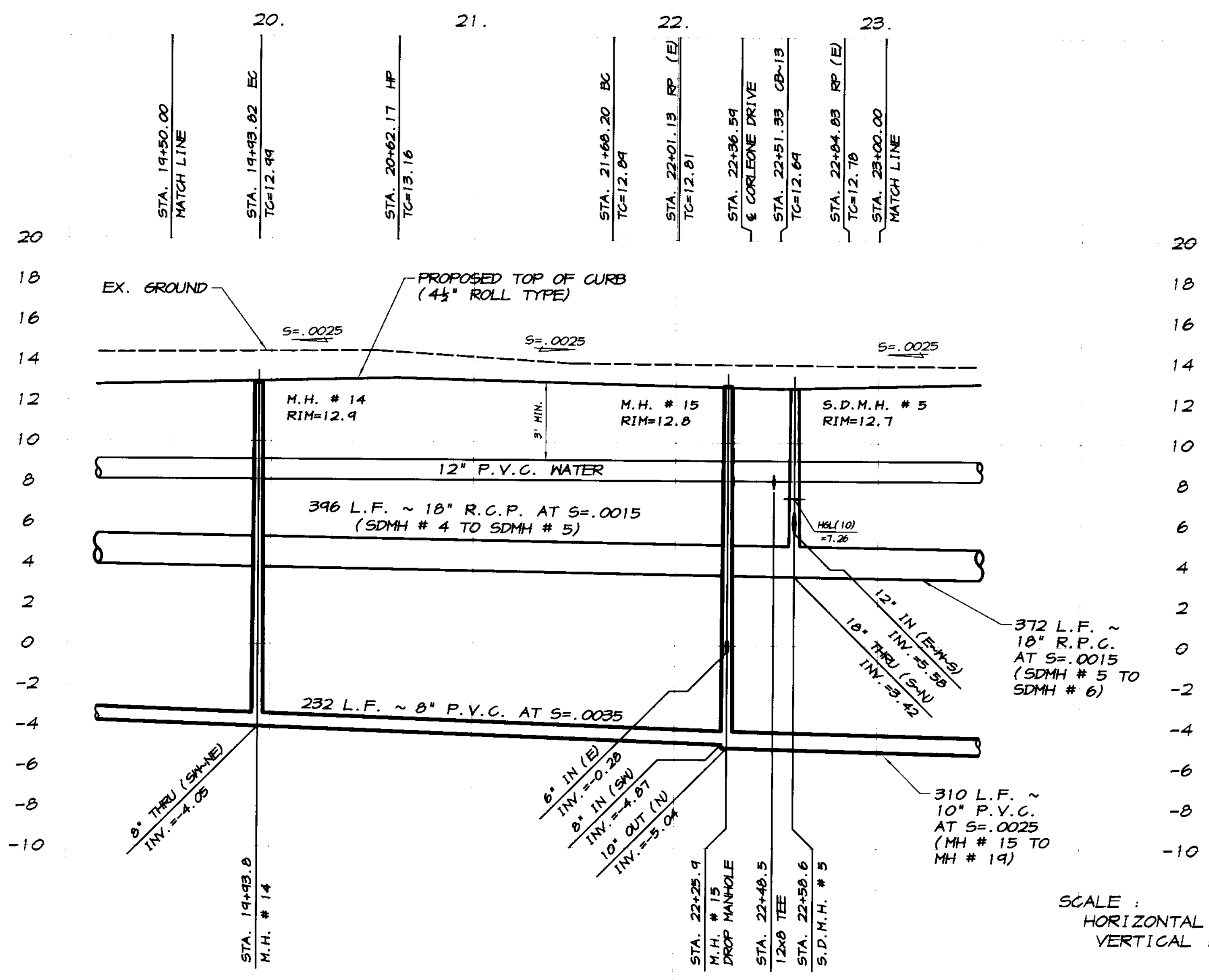
12" INV. AT C.B.~13 = 5.73  
 30 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~5 = 5.58

**RAPALLO WAY**  
SCALE: 1"=40'

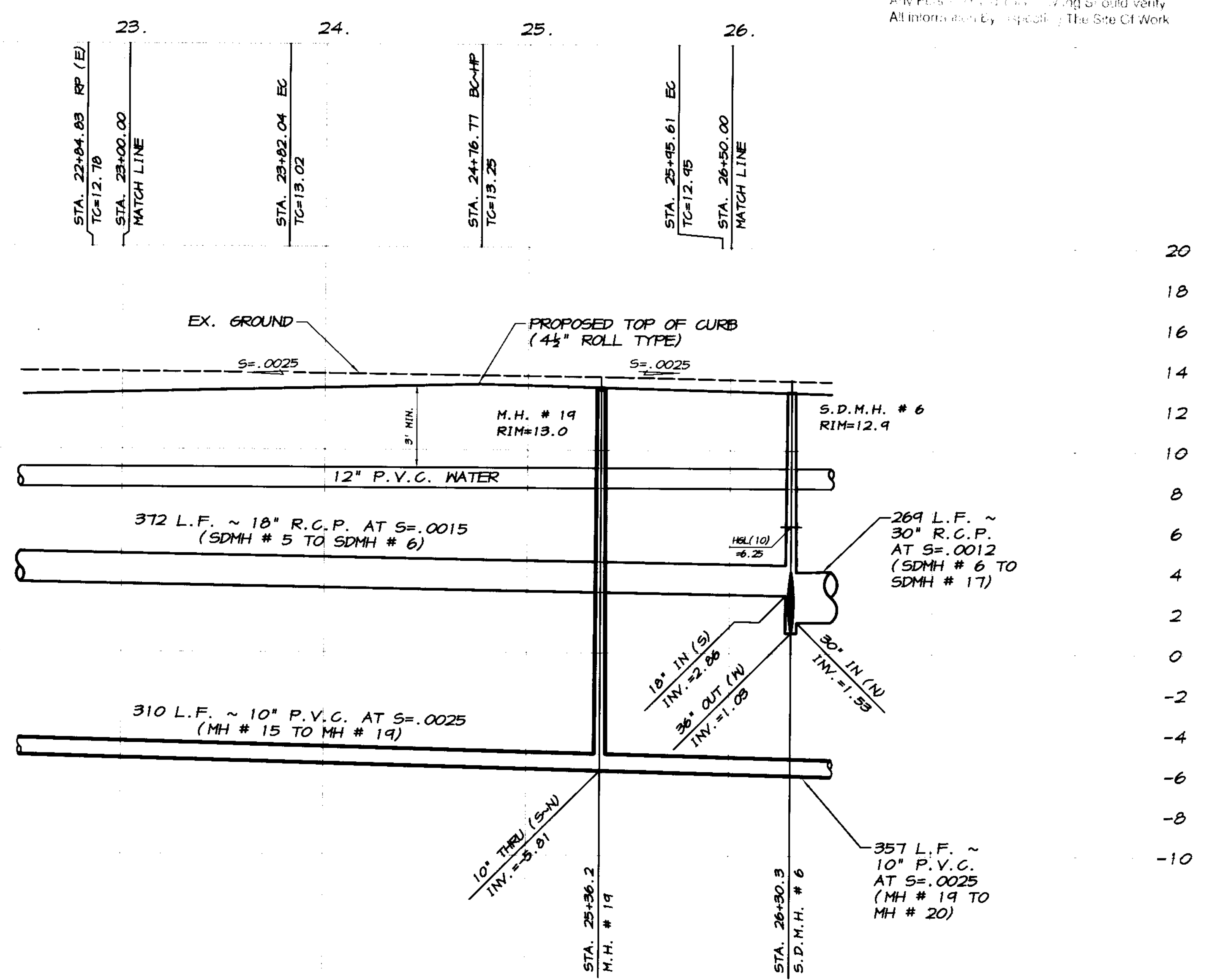


**RAPALLO WAY**  
SCALE: 1"=40'

**RECORD DRAWING**  
 Date: 2/12/2008  
 All information by inspection of the Site Of Work



SCALE:  
HORIZONTAL: 1"=40'  
VERTICAL: 1"=4'



BY

REVISION DATE DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
 Surveying - Design - Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

**RECORD DRAWING**  
 STA. 20+00 TO STA. 26+00  
**RAPALLO WAY**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

PLAN AND PROFILE  
 STA. 20+00 TO STA. 26+00  
**RAPALLO WAY**  
 OAKWOOD LAKE SUBDIVISION, UNIT 2  
 SAN JOAQUIN COUNTY CALIFORNIA

RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. #9028  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

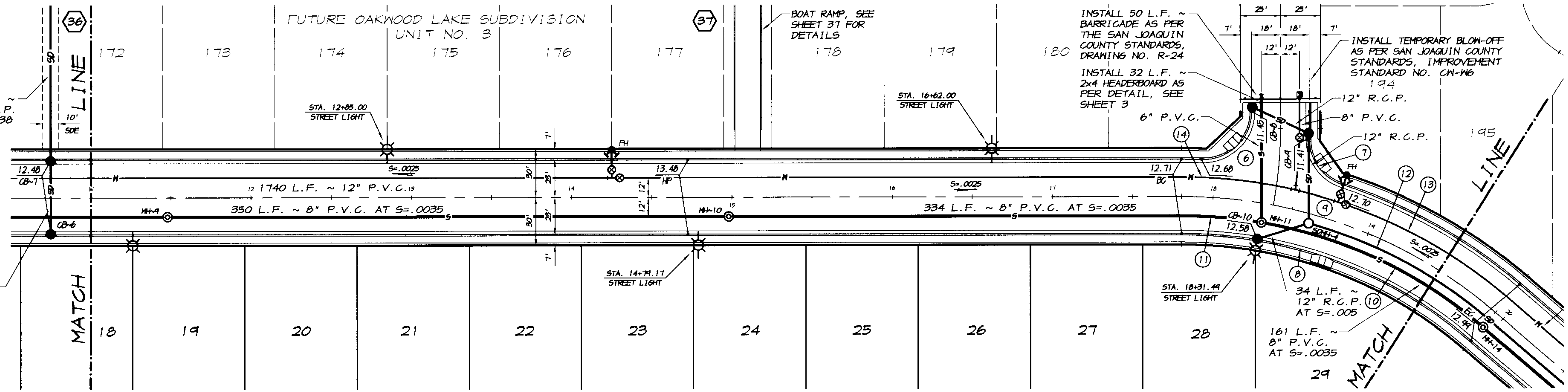
DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: NOTED  
 DWG: 246-ELCPP  
 CHECKED: KN  
 JOB #: 246-03

SHEET **24** OF 45



**CATCH BASIN DATA**  
 12" INV. AT C.B.~8 = 5.10  
 39 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. IN AT C.B.~4 = 4.90  
 12" INV. OUT AT C.B.~9 = 4.80  
 56 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~4 = 4.52

**CATCH BASIN DATA**  
 12" INV. OUT AT C.B.~6 = 5.63  
 45 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. IN AT C.B.~7 = 5.40  
 12" INV. OUT AT C.B.~7 = 5.30  
 137 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT F.E.S. = 4.61

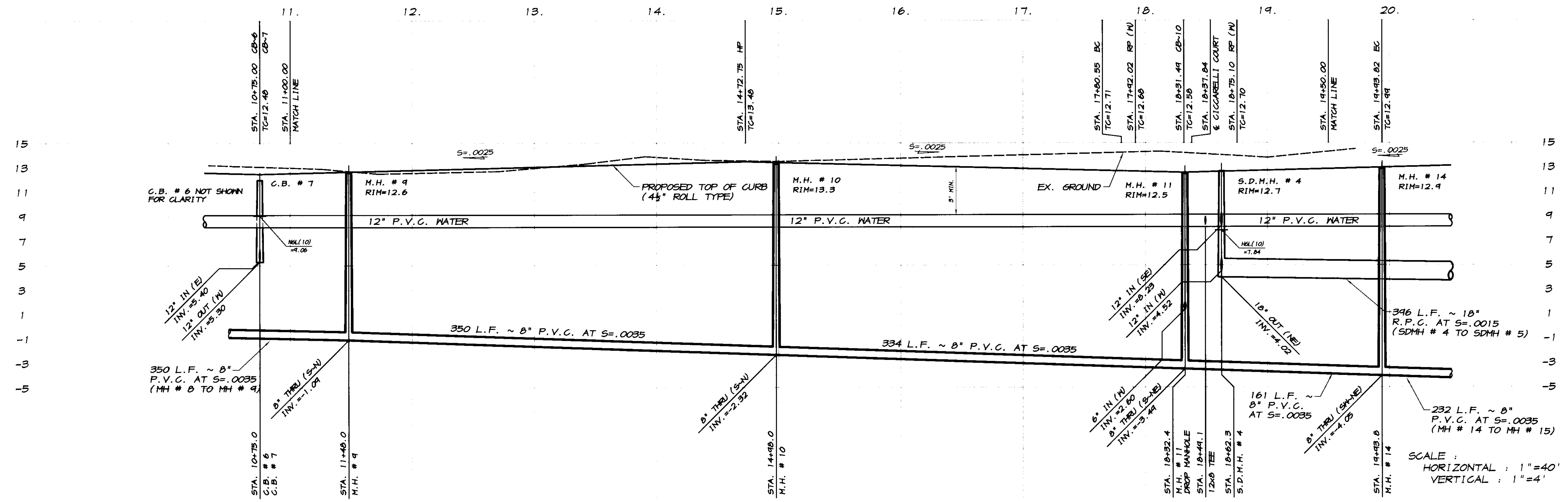


**CATCH BASIN DATA**  
 12" INV. AT C.B.~10 = 8.40  
 34 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.~4 = 8.23

CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
(6)	92°11'25"	30.00'	48.27'	43.23'	31.17'	FL
(7)	73°10'12"	30.00'	38.31'	35.76'	22.21'	FL
(8)	40°43'54"	271.00'	196.42'	142.00'	102.83'	FL
(9)	40°43'54"	300.00'	213.27'	208.01'	111.37'	CL
(10)	24°40'24"	288.00'	149.16'	147.50'	76.24'	S
(11)	9°18'51"	288.00'	46.82'	46.71'	23.46'	S
(12)	24°33'22"	244.00'	126.00'	125.04'	63.90'	SD
(13)	21°04'34"	312.00'	115.22'	114.57'	58.27'	M
(14)	18°41'26"	312.00'	101.78'	101.33'	51.35'	M

**RAPALLO WAY**  
 SCALE: 1"=40'

**RECORD DRAWING**  
 Corrections by: *R. Carrel*  
 No. Changes: *0*  
 Date: *7/12/2008*  
 Any Person Using This Drawing Should Verify All Information Against the Site Of Work



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

BY: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_  
 REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_

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 PH: (209) 545-3390 FAX: (209) 545-3875

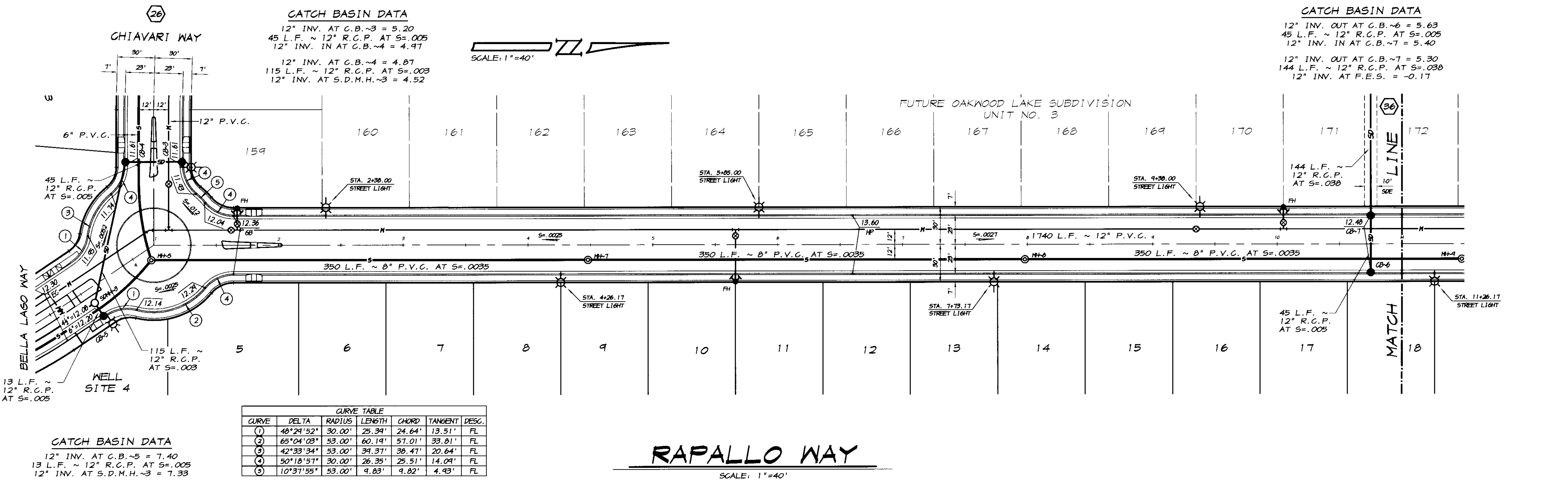
**RECORD DRAWING**  
 PLAN AND PROFILE  
 STA. 11+00 TO STA. 20+00  
**RAPALLO WAY**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

*R. Carrel*  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. #9026  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

DRAWN BY: J.S.H.  
 DATE: 6/14/08  
 SCALE: NOTED  
 DWG: 296-ELCPP  
 CHECKED: KN  
 JOB #: 296-03

SHEET **23** OF 45



**CATCH BASIN DATA**  
 12" INV. AT C.B.-3 = 5.20  
 45 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. IN AT C.B.-4 = 4.97  
 12" INV. AT C.B.-4 = 4.87  
 115 L.F. ~ 12" R.C.P. AT S=.003  
 12" INV. AT S.D.M.H.-3 = 4.52

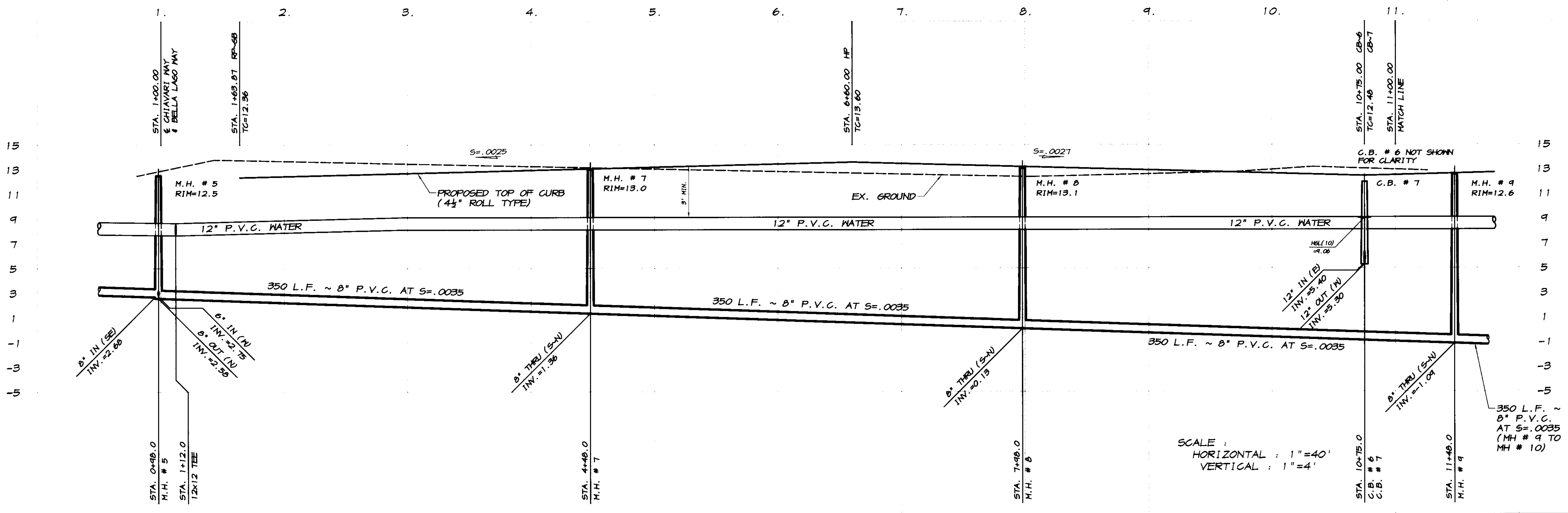
**CATCH BASIN DATA**  
 12" INV. OUT AT C.B.-6 = 5.63  
 45 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. IN AT C.B.-7 = 5.40  
 12" INV. OUT AT C.B.-7 = 5.30  
 144 L.F. ~ 12" R.C.P. AT S=.038  
 12" INV. AT F.E.S. = -0.17

CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
1	48°24'52"	30.00'	25.34'	24.64'	13.51'	FL
2	65°04'03"	53.00'	60.14'	57.01'	33.81'	FL
3	42°33'34"	53.00'	39.37'	38.47'	20.64'	FL
4	50°18'57"	30.00'	26.35'	25.51'	14.09'	FL
5	10°37'55"	53.00'	9.83'	9.82'	4.93'	FL

**CATCH BASIN DATA**  
 12" INV. AT C.B.-5 = 7.40  
 13 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.-3 = 7.33

**RAPALLO WAY**  
 SCALE: 1"=40'

**RECORD DRAWING**  
 Corrected by: *R. Carril*  
 No. Chgs: *1*  
 Date: *3/12/2008*  
 Any Errors: *None*  
 Attest: *[Signature]*



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

350 L.F. ~  
 8" P.V.C.  
 AT S=.0035  
 (MH # 9 TO  
 MH # 10)

BY: \_\_\_\_\_  
 REVISION: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 DESCRIPTION: \_\_\_\_\_

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**PLAN AND PROFILE**  
 STA. 1+00 TO STA. 11+00  
**RAPALLO WAY**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY, CALIFORNIA

*R. Carril*  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

DRAWN BY: *J.S.H.*  
 DATE: *6/14/05*  
 SCALE: *NOTED*  
 DWG: *246-ELCPP*  
 CHECKED: *KN*  
 JOB #: *246-03*

SHEET  
**22**  
 OF  
**45**



SCALE: 1"=40'

E. WOODWARD AVENUE

**CATCH BASIN DATA**

12" INV. AT C.B.#5 = 7.40  
 13 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.#3 = 7.33

**CATCH BASIN DATA**

12" INV. AT C.B.#2 = 7.63  
 36 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.#1 = 7.45

STUB AND PLUS 22 L.F. ~  
 15" R.C.P. AT S=.03 TO E.  
 15" INV. AT E = 8.46

79 L.F. ~  
 18" R.C.P.  
 AT S=.0015

133 L.F. ~  
 18" R.C.P.  
 AT S=.0015

238 L.F. ~  
 8" P.V.C.  
 AT S=.0035

335 L.F. ~  
 12" R.C.P.  
 AT S=.003

36 L.F. ~  
 12" R.C.P.  
 AT S=.005

4 PT.  
 12.96  
 BC-6B  
 13.21

200 L.F. ~  
 8" P.V.C.  
 AT S=.0035

INSTALL 41 L.F. ~ 2x4 HEADERBOARD  
 AS PER DETAIL, SEE SHEET 3

THE CONTRACTOR SHALL OBTAIN AN  
 ENCROACHMENT PERMIT FROM THE  
 CITY OF MANTECA PRIOR TO BEGINNING  
 ANY CONSTRUCTION ACTIVITIES IN  
 THE E. WOODWARD AVENUE RIGHT-OF-WAY.

SANICUT THE EX. PAVEMENT AT 10'  
 NORTH OF THE CENTERLINE 1/4 SECTION  
 LINE. MEET AND MATCH WITH PROPOSED  
 NEW PAVING AS REQUIRED

SEE THE OAKWOOD LAKE SUBDIVISION  
 OFF-SITE IMPROVEMENT PLANS FOR THE  
 PROPOSED WATER LINES.

RAPALLO WAY

WELL SITE 4

259 L.F. ~  
 8" P.V.C.  
 AT S=.0035

13 L.F. ~ 12" R.C.P.  
 AT S=.005

45 L.F. ~ 12" R.C.P.  
 AT S=.005

159  
 12" P.V.C.

CHIAVARI WAY

**CATCH BASIN DATA**

12" INV. AT C.B.#3 = 5.20  
 45 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. IN AT C.B.#4 = 4.97

12" INV. AT C.B.#4 = 4.87  
 115 L.F. ~ 12" R.C.P. AT S=.003  
 12" INV. AT S.D.M.H.#3 = 4.52

REFER TO SHEET 19  
 FOR MEDIAN PLANS

INSTALL THE GATED ENTRYWAY  
 AND DECORATIVE PAVING AS  
 PER THE LANDSCAPE ARCHITECTS  
 PLANS.

REC.  
 POOL

SEE SHEET 34 FOR THE  
 RECREATION AREA PARKING  
 LOT AND BOAT RAMP DETAILS.

PARK

**CATCH BASIN DATA**

12" INV. AT C.B.#1 = 7.72  
 54 L.F. ~ 12" R.C.P. AT S=.005  
 12" INV. AT S.D.M.H.#1 = 7.45

**BELLA LAGO WAY**

SCALE: 1"=40'

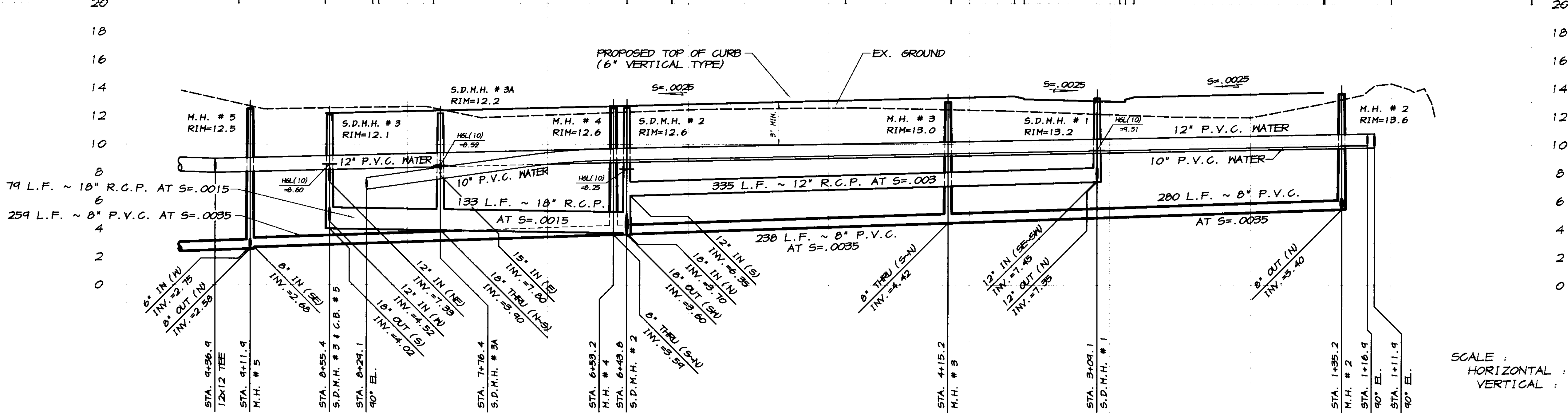
**CURVE TABLE**

CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
1	90°29'34"	30.00'	47.38'	42.61'	30.26'	FL
2	84°30'21"	30.00'	46.87'	42.24'	29.74'	FL
3	90°00'00"	7.00'	11.00'	9.90'	7.00'	FL
4	33°44'46"	325.00'	191.42'	188.66'	98.58'	FL
5	33°44'46"	275.00'	161.97'	159.64'	83.41'	FL
6	31°25'05"	318.00'	174.37'	172.20'	84.44'	S
7	33°12'35"	312.00'	180.84'	178.32'	83.04'	SD
8	33°44'46"	300.00'	176.69'	174.15'	80.99'	CL
9	33°44'46"	288.00'	169.63'	167.18'	81.35'	N
10	16°33'45"	200.00'	57.81'	57.61'	29.11'	S

**RECORD DRAWING**

Corrections by:  
 No Changes by:  
 Date: 3/12/2008  
 Any Person Using This Drawing Should Verify  
 All Dimensions by Inspecting The Site Of Work

9.	STA. 9+20.30 E. CHIAVARI WAY & RAPALLO WAY
8.	STA. 8+58.14 RP TC=12.20 44' TC=12.08
7.	STA. 8+24.76 E. 24.5' HP DRIVEWAY (N) TC=12.20
6.	STA. 7+81.42 E. 25.0' HP DRIVEWAY (N) TC=12.74
5.	STA. 6+45.78 BC TC=12.74
4.	STA. 6+11.95 E. 38.0' HP DRIVEWAY (N) TC=12.74
3.	STA. 4+88.07 & PT. TC=13.13 END GATE TRANSITION
2.	STA. 4+13.07 & PT. TC=13.32 BEGIN GATE TRANSITION
1.	STA. 3+68.07 EC-HP TC=13.43
	STA. 3+61.07 TC=13.22, 39.5' N. OF E TC=13.12, 39.5' E. OF E
	STA. 2+89.07 TC=13.05 CB-1 TC=12.96, 39.5' N. OF E TC=12.96, 39.5' E. OF E
	STA. 2+83.07 BC-6B TC=13.36
	STA. 1+48.48 RP (E) TC=13.70
	STA. 1+47.59 RP (N) TC=13.70
	STA. 1+00.00 E. WOODWARD AVENUE & SECTION LINE
	STA. 0+00.00



SCALE:  
 HORIZONTAL: 1"=40'  
 VERTICAL: 1"=4'

BY	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
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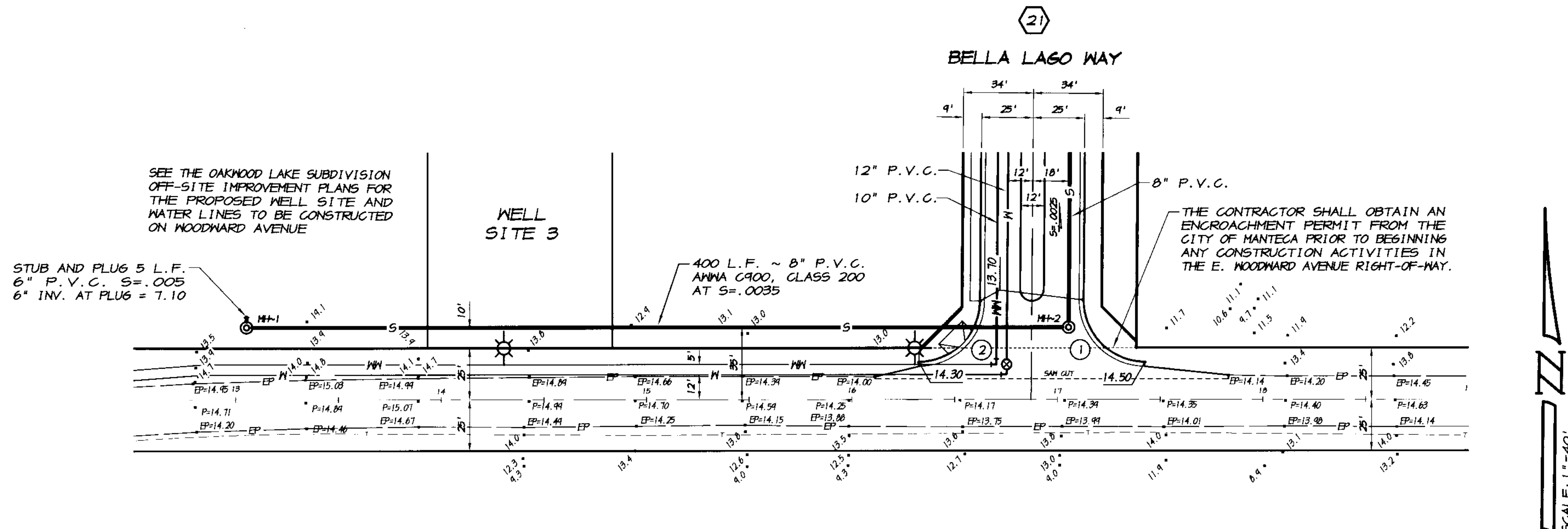
PLAN AND PROFILE  
**BELLA LAGO WAY**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126



DRAWN BY: J.S.H.  
 DATE: 6/14/08  
 SCALE: NOTED  
 DWG: 246-OLDPP  
 CHECKED: KN  
 JOB #: 246-03

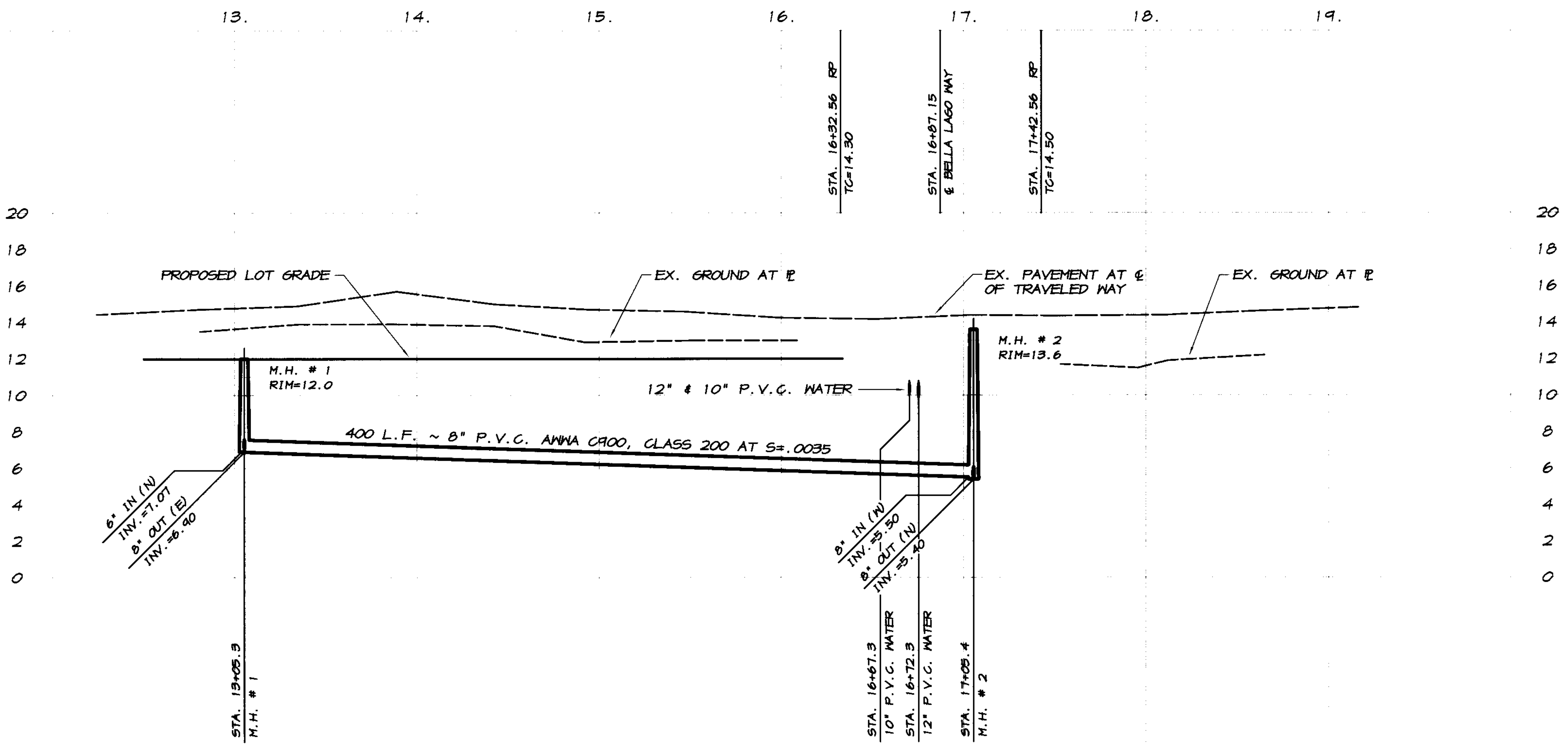
SHEET **21**  
 OF 45



CURVE TABLE						
CURVE	DELTA	RADIUS	LENGTH	CHORD	TANGENT	DESC.
①	90°24'34"	30.00'	47.38'	42.61'	30.26'	FL
②	84°30'21"	30.00'	46.87'	42.24'	29.74'	FL

**E. WOODWARD AVENUE**  
SCALE: 1"=40'

**RECORD DRAWING**  
 Corrections:  
 No Corrections  
 3/12/2008  
 Ryan Carrel  
 No Corrections  
 3/12/2008  
 Ryan Carrel  
 No Corrections  
 3/12/2008  
 Ryan Carrel



BY: \_\_\_\_\_

REVISION DATE DESCRIPTION

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**E. WOODWARD AVENUE**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

**RECORD DRAWING**  
 Corrections:  
 No Corrections  
 3/12/2008  
 Ryan Carrel  
 No Corrections  
 3/12/2008  
 Ryan Carrel  
 No Corrections  
 3/12/2008  
 Ryan Carrel

REGISTERED PROFESSIONAL ENGINEER  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: NOTED  
 DWG: 246-WAPP  
 CHECKED: KN  
 JOB #: 246-03

SHEET **20** OF **45**

REVISION	DATE	DESCRIPTION

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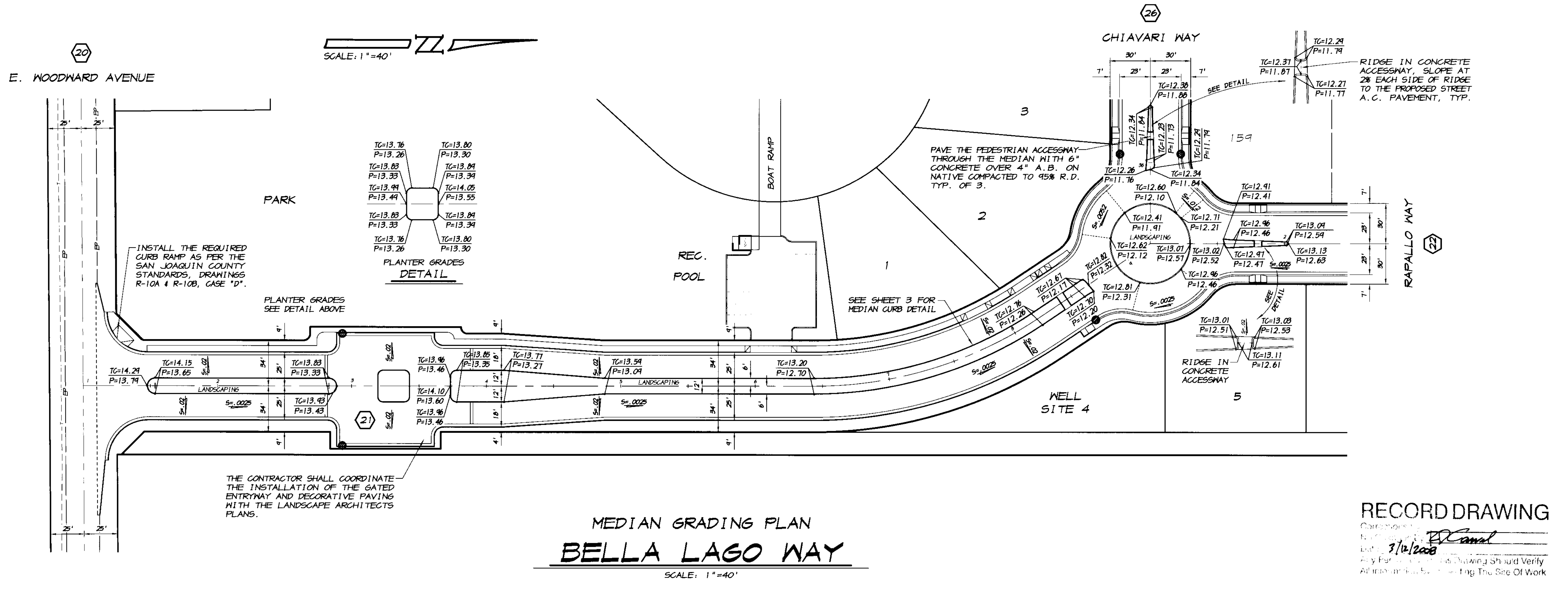
**TRACT NO. 9475**  
**MEDIAN LAYOUT PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

**RYAN CARREL, R.C.E. 61619**  
 DANIEL ENGLISH, R.C.E. 49025  
 DAVE SKIDMORE, L.S. 7126

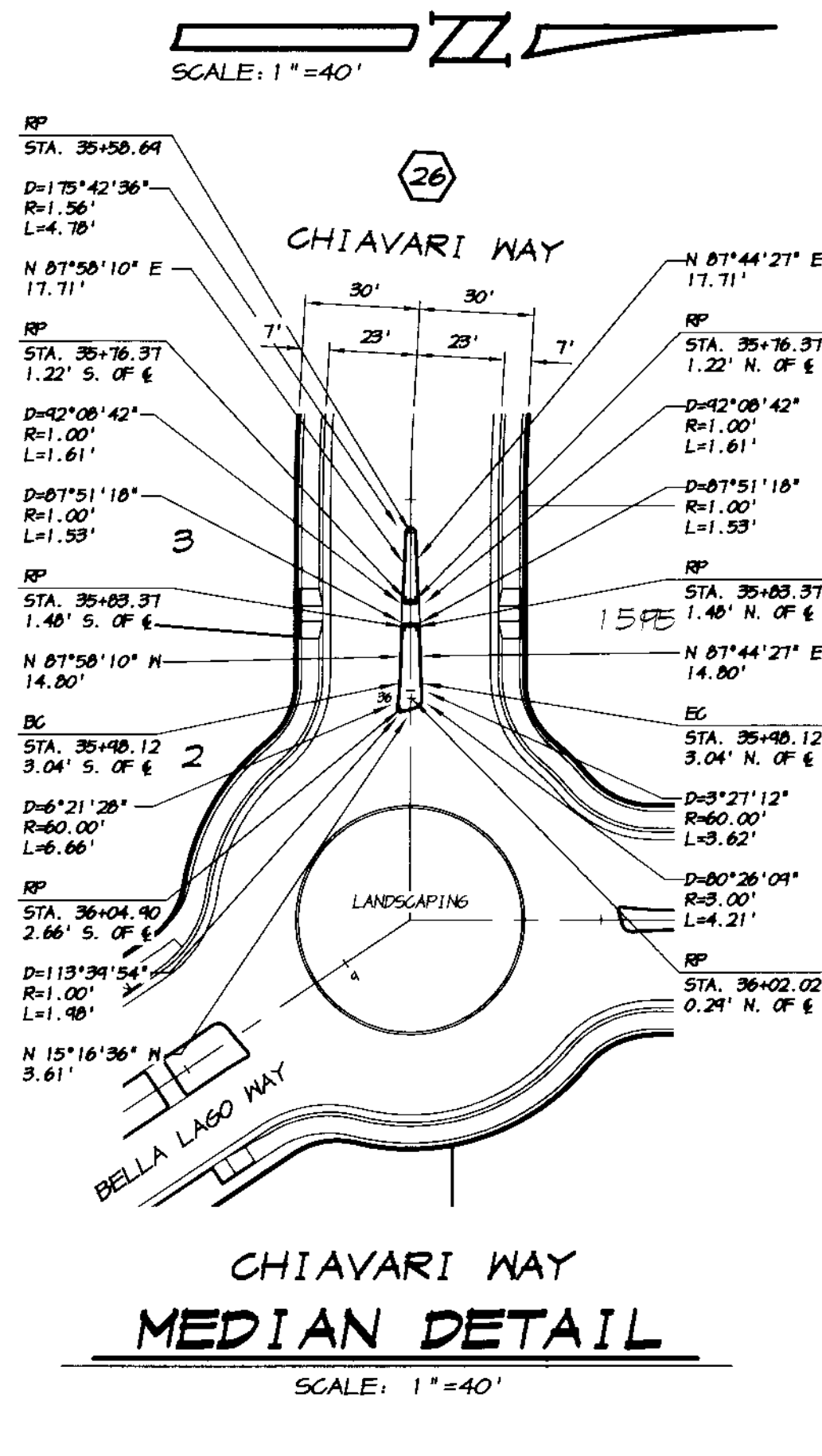
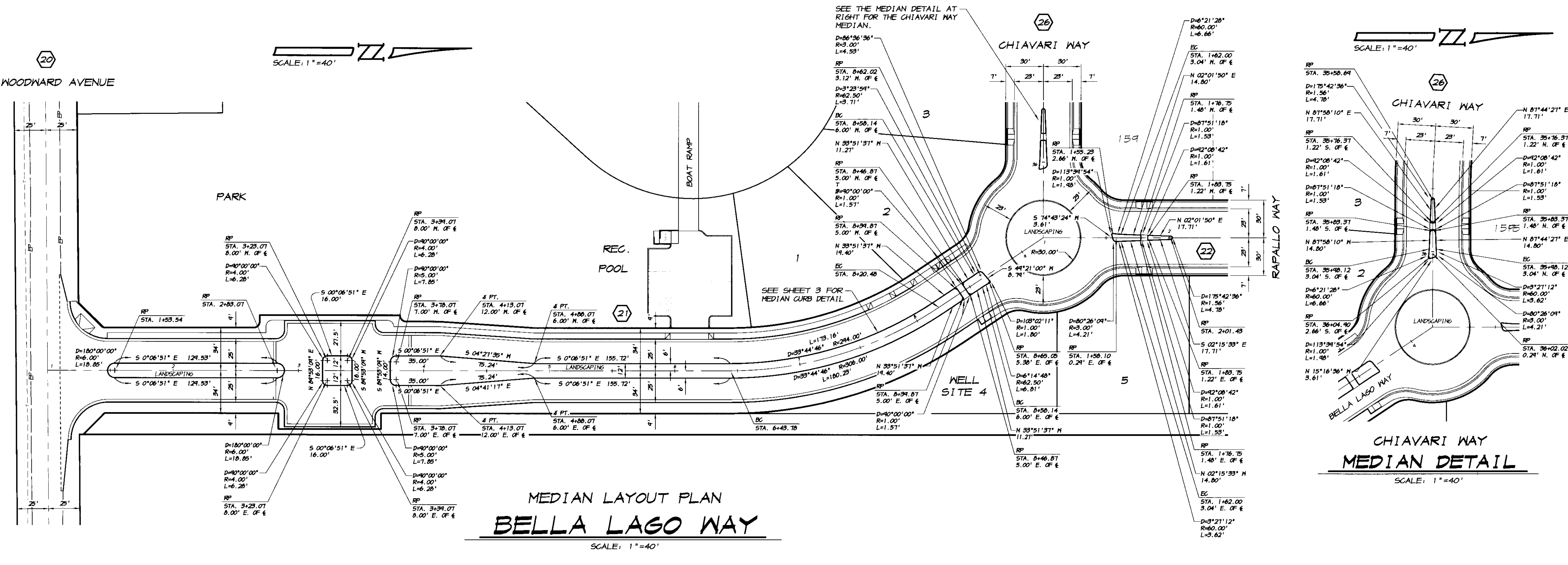


DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: 1"=40'  
 DWG: 296-DTL1  
 CHECKED: KN  
 JOB #: 296A-04

SHEET **19**  
 OF 45



**RECORD DRAWING**  
 Date: 3/12/2008  
 Any Person Using This Drawing Should Verify All Information by Visiting The Site Of Work



**MEDIAN LAYOUT PLAN**  
**BELLA LAGO WAY**  
 SCALE: 1"=40'

SCALE: 1"=50'

A.P.N.  
241-41-41

PARCEL A  
PM 5-105

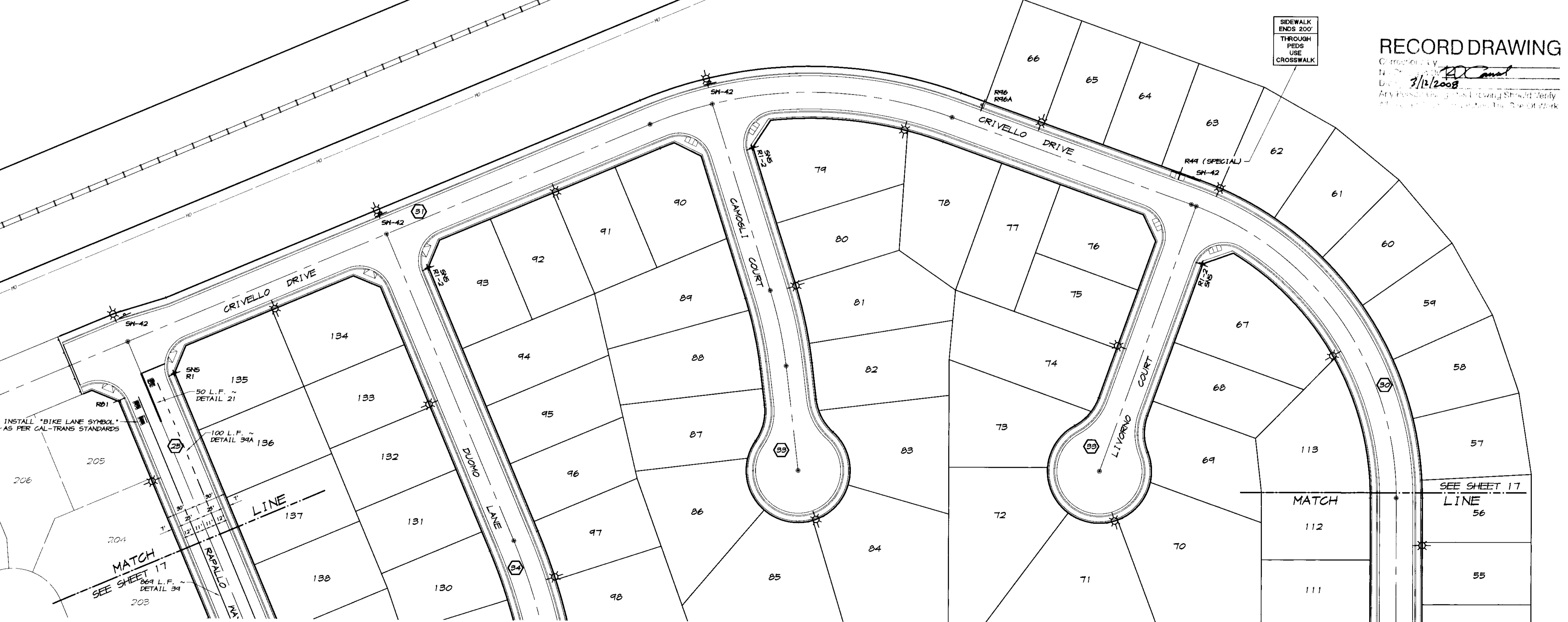
STATE HIGHWAY ROUTE 120

UNION PACIFIC RAILROAD

SIDEWALK ENDS 200'  
THROUGH PEDS USE CROSSWALK

RECORD DRAWING

Corrected by *RJ Canal*  
Date: 3/12/2008  
Any person using this drawing should verify all dimensions and conditions on the ground work.



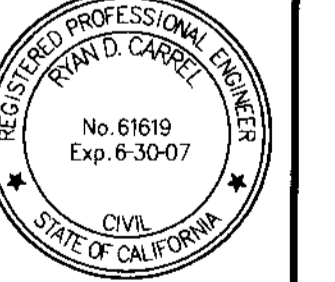
REVISION	DATE	DESCRIPTION	BY

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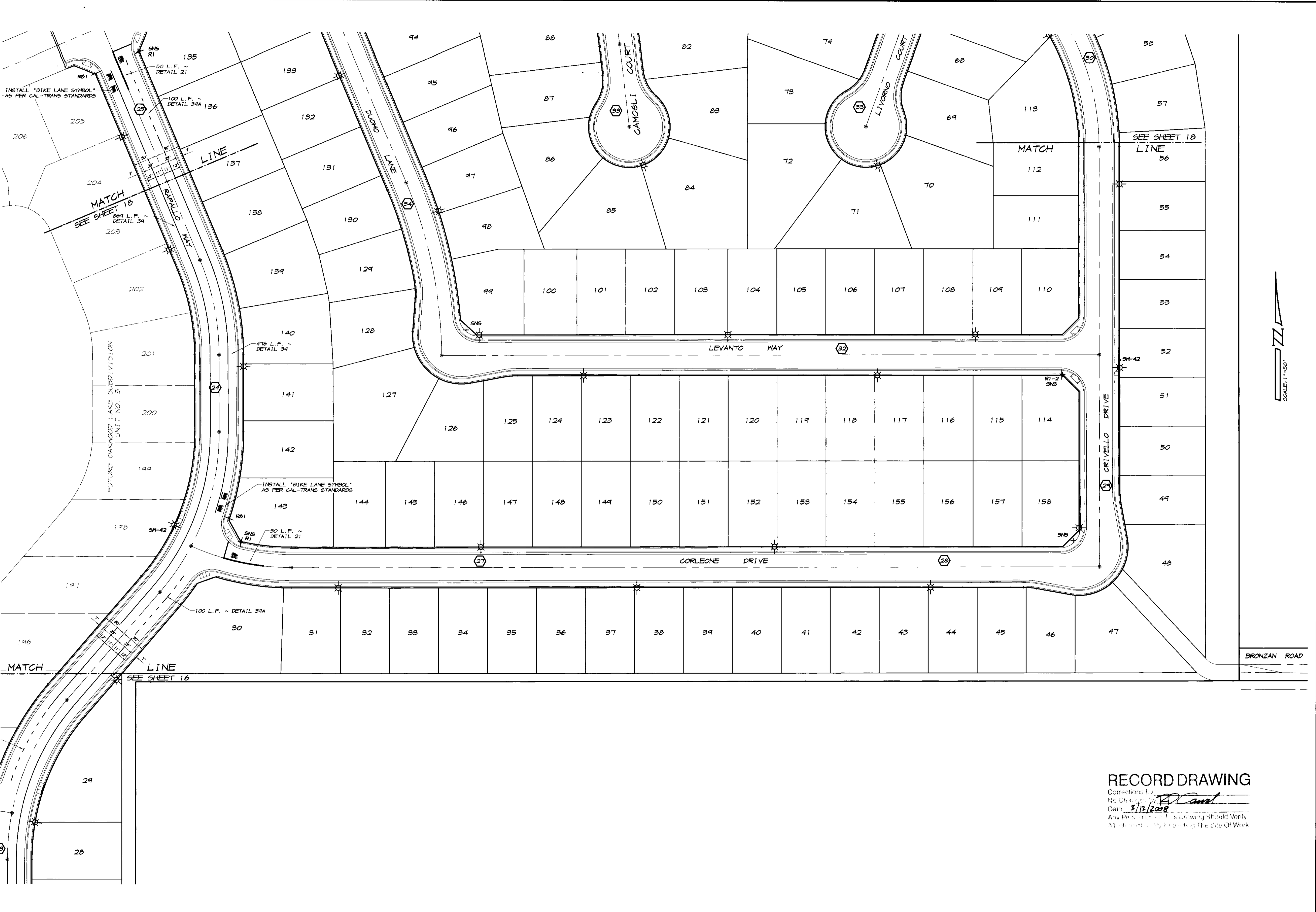
TRACT NO. 3475  
**STRIPING & SIGNAGE PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

*RJ Canal*  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. #928  
 DAVE SKIDMORE, L.S. 7126



DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: 1"=50'  
 DWG: 296-STRIP/1  
 CHECKED: KM  
 JOB #: 296A-04

SHEET  
**18**  
 OF  
**45**



REVISION	DATE	DESCRIPTION

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 PH: (209) 545-3390 FAX: (209) 545-3875

TRACT NO. 3475  
**STRIPING & SIGNAGE PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

**RD Camt**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126



**RECORD DRAWING**  
 Corrections: 0  
 No Change By: RD Camt  
 Date: 3/12/2008  
 Any Person Using This Drawing Should Verify All Information By Inspecting The Site Of Work

DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: 1" = 50'  
 DWG: 296-STRIP1  
 CHECKED: KW  
 JOB #: 296A-04



**RECORD DRAWING**  
 Corrections by: *RD*  
 No Changes By: *RD*  
 Date: 3/12/2008  
 Any Person Using This Drawing Should Verify All Information Before Starting The Site Or Work

REVISION	DATE	DESCRIPTION

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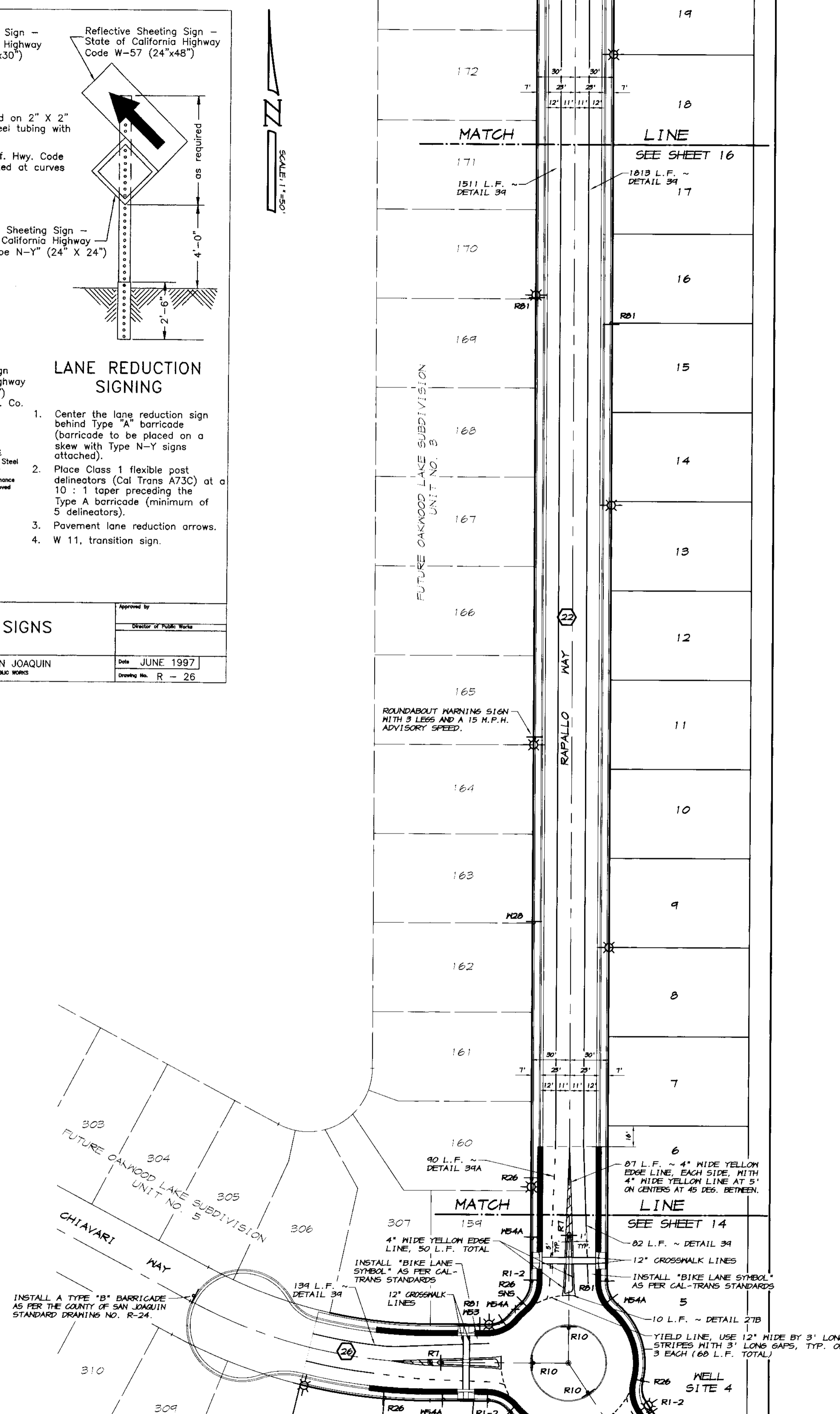
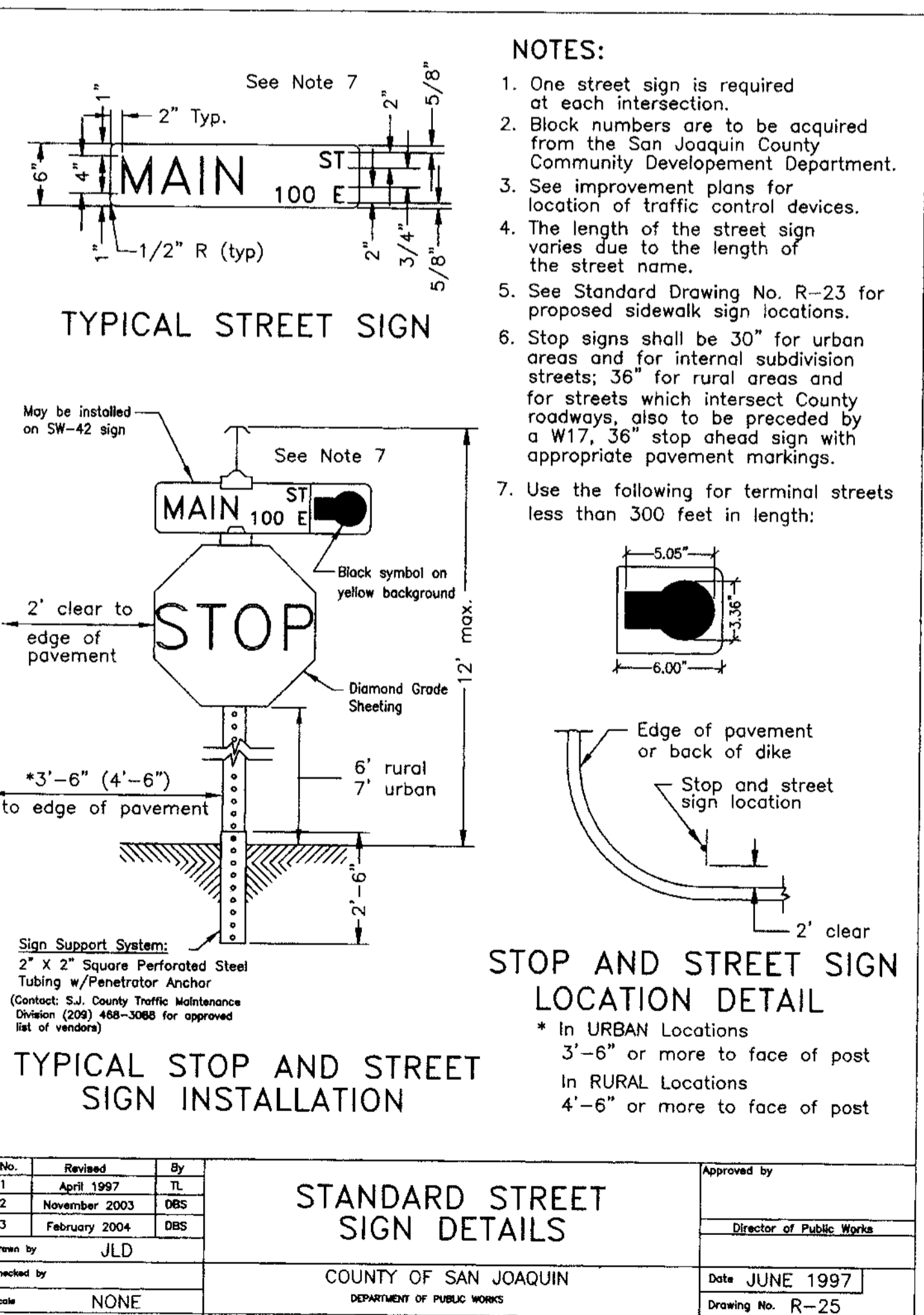
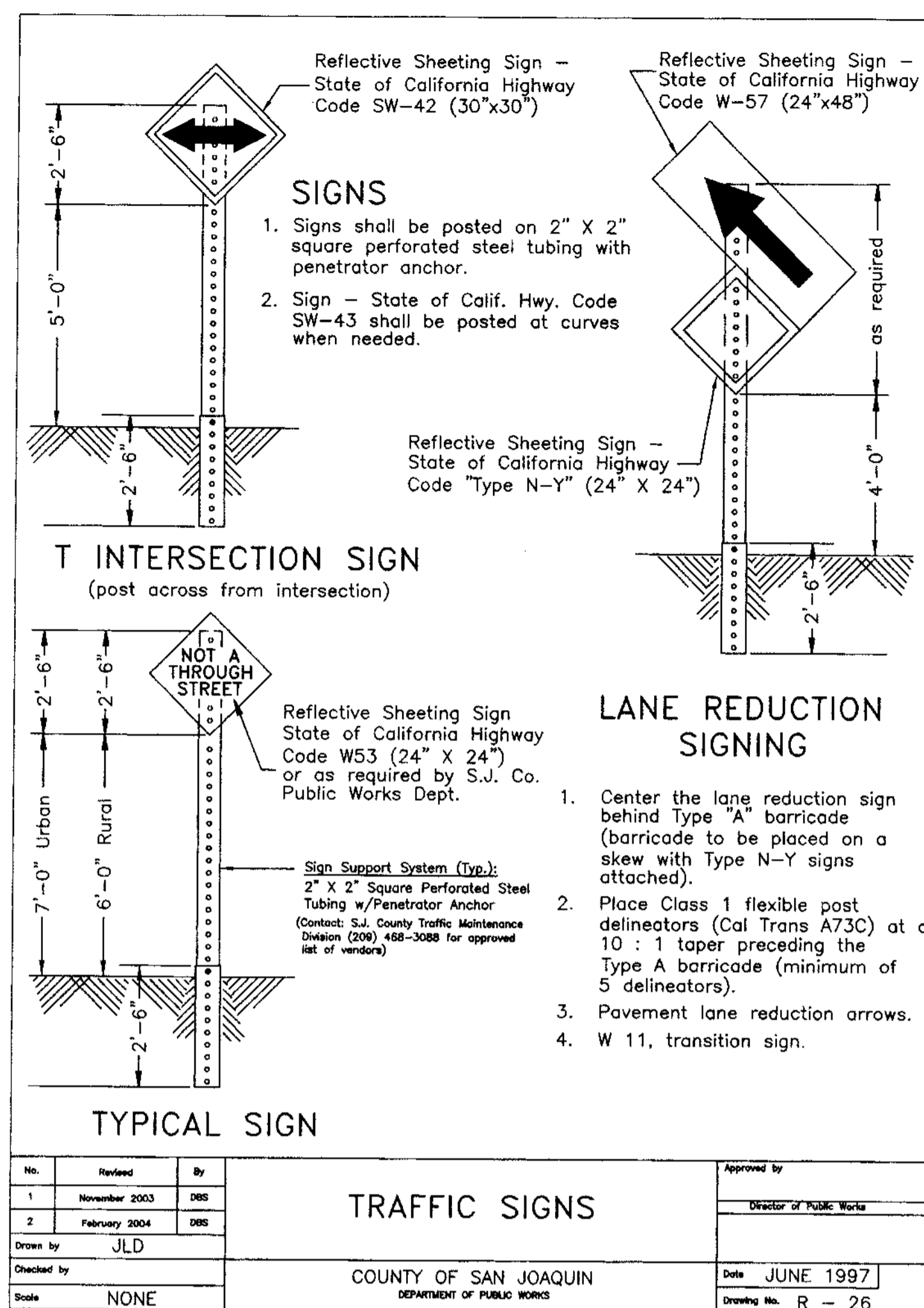
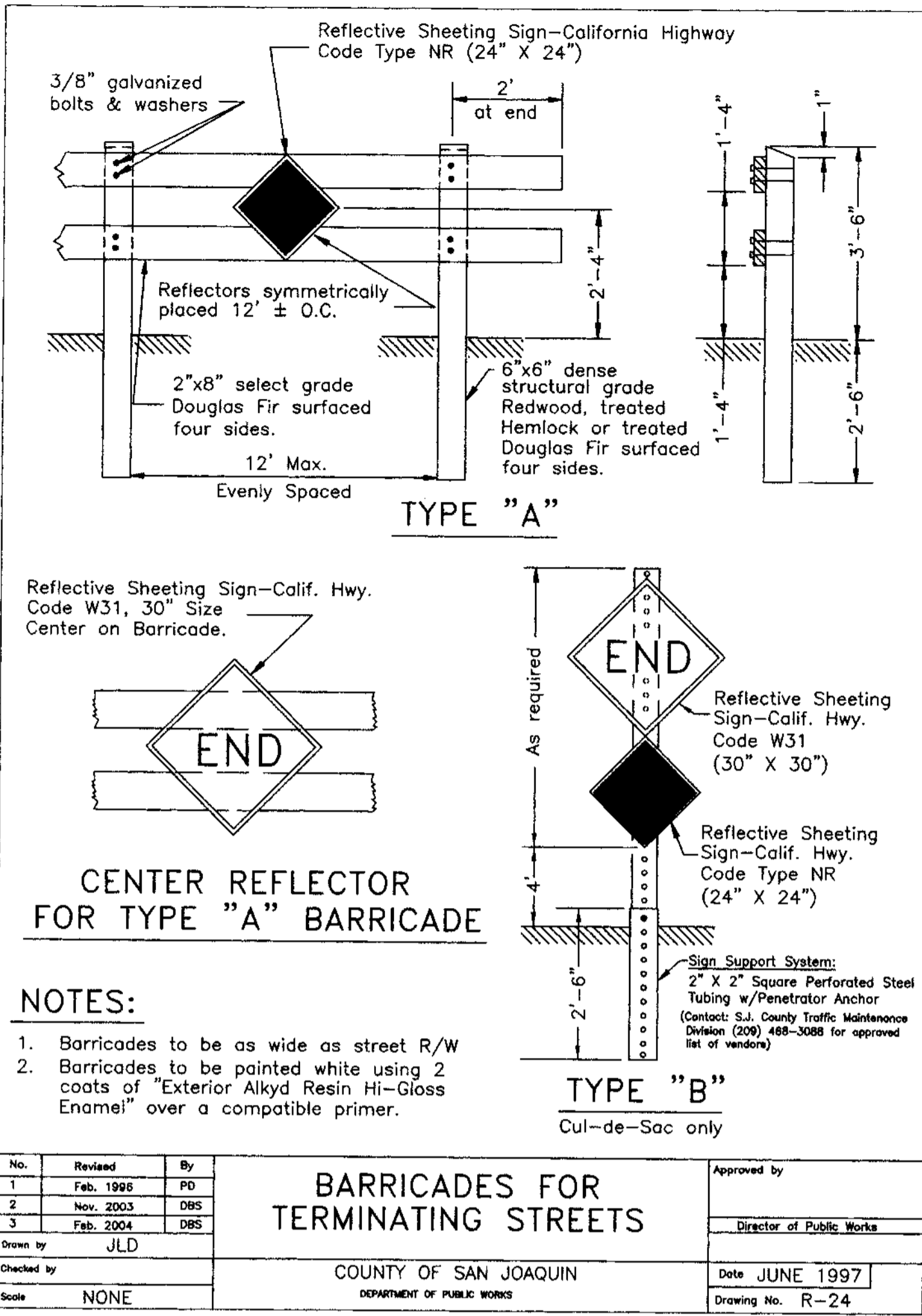


TRACT NO. 34715  
**STRIPING & SIGNAGE PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

*RD*  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: 1" = 50'  
 DWG: 296-STRIPE!  
 CHECKED: KM  
 JOB # 296A-04

SHEET  
**16**  
 OF  
**45**



**RECORD DRAWING**

Corrections by: Ryan Carrel

Date: 3/12/2008

All information is subject to the State of Work

**RYAN CARREL**, R.C.E. 61619  
DANIEL ENGLAND, R.C.E. 49026  
DAVE SKIDMORE, L.S. 71226

**REGISTERED PROFESSIONAL ENGINEER**  
No. 61619  
Exp. 6-30-07  
CIVIL  
STATE OF CALIFORNIA

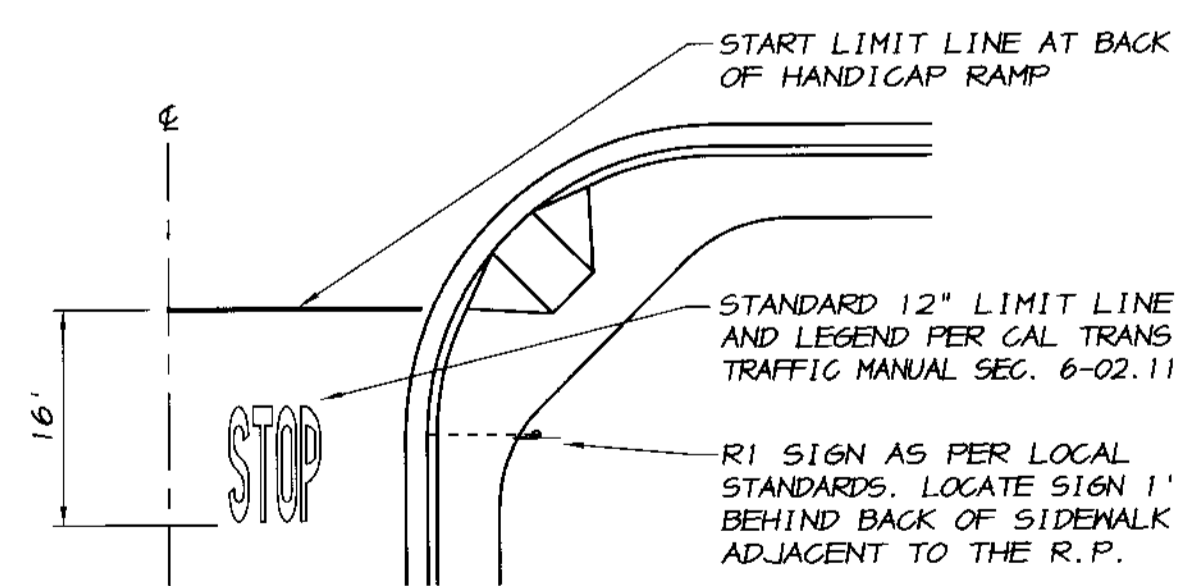
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JOB #: 296A-04

SHEET **15** OF **45**

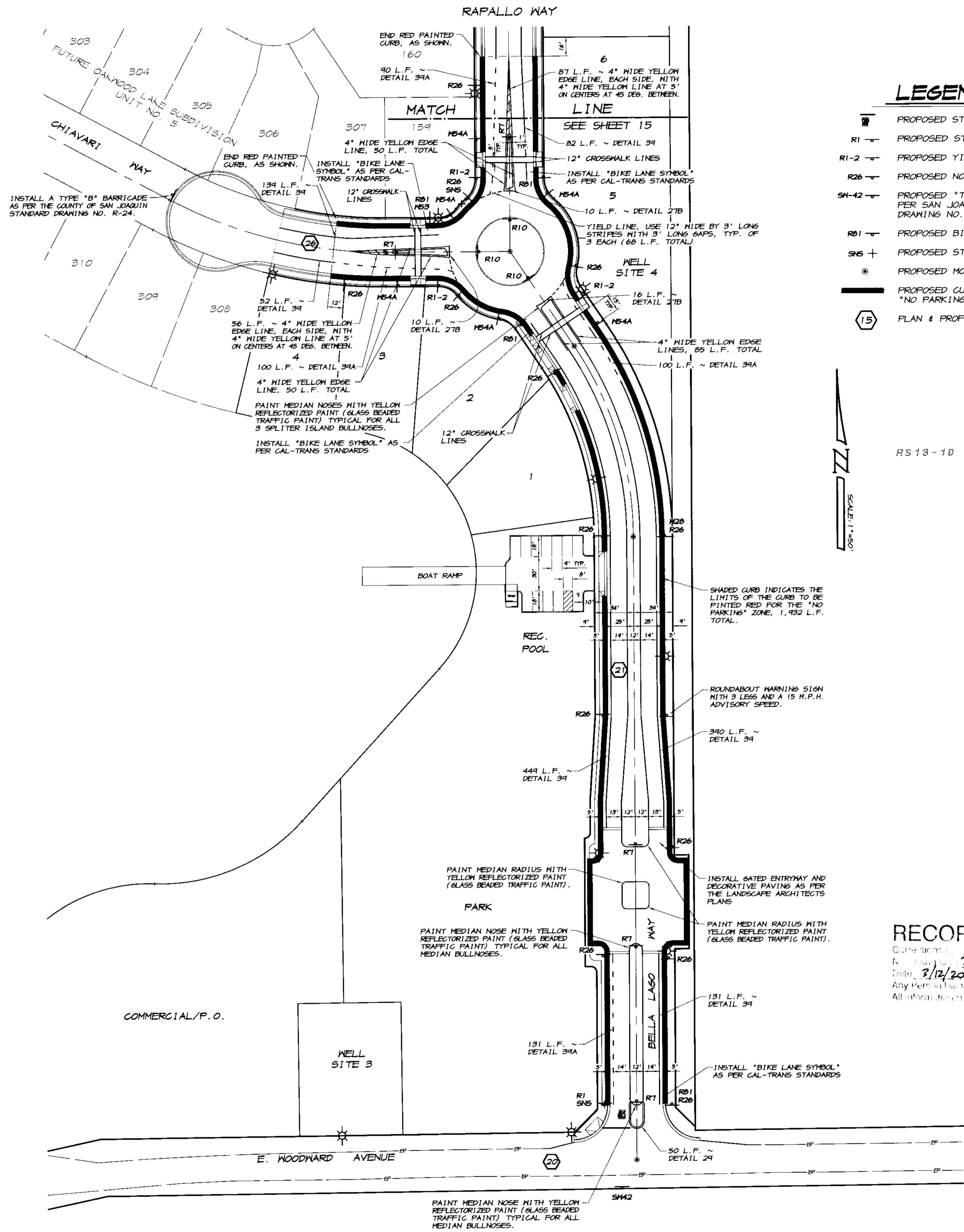
**ASSOCIATED ENGINEERING, INC.**  
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MODESTO, CALIFORNIA 95356  
PH: (209) 545-3390 FAX: (209) 545-3875

# STRIPING NOTES

- ALL WORK TO BE DONE SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS.
- THE DETAILS REFERRED TO ON THIS PLAN ARE THOSE AS SHOWN IN THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, TRAFFIC MANUAL, CHAPTER 6, "MARKINGS".
- THE CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING PAVEMENT MARKINGS THAT WOULD CONFLICT WITH EXISTING TRAFFIC PATTERNS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY STRIPING THAT MAY BE REQUIRED.
- ALL LINES AND LEGENDS SHALL BE INSTALLED USING THERMOPLASTIC AND RAISED CERAMIC MARKERS UNLESS OTHERWISE NOTED ON THE PLANS.
- THE CONTRACTOR SHALL CONDUCT HIS WORK TO INTERFERE AS LITTLE AS POSSIBLE WITH THE PUBLIC TRAVEL, WHETHER VEHICULAR OR PEDESTRIAN. WHENEVER IT NECESSARY TO CROSS, OBSTRUCT, OR CLOSE ROADS, DRIVEWAYS AND WALKS, PUBLIC OR PRIVATE, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SUITABLE AND SAFE DETOURS, OR TEMPORARY EXPEDIENTS FOR THE ACCOMMODATION OF PUBLIC AND PRIVATE TRAVEL AND SHALL GIVE REASONABLE NOTICE TO OWNERS OF PRIVATE DRIVES BEFORE INTERFERING WITH THEM. SUCH MAINTENANCE OF TRAFFIC WILL NOT BE REQUIRED WHEN THE CONTRACTOR HAS OBTAINED WRITTEN PERMISSION FROM THE OWNER AND TENANT OF PRIVATE PROPERTY OR FROM AUTHORITY HAVING JURISDICTION OVER PUBLIC PROPERTY INVOLVED, TO OBSTRUCT TRAFFIC AT THE DESIGNATED POINT.
- THE CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF THE LATEST EDITION OF THE STATE OF CALIFORNIA, MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE ZONES. ANY PROPOSED DEVIATION OR MODIFICATIONS TO THESE TRAFFIC CONTROL REQUIREMENTS SHALL BE SUBMITTED TO THE CITY, COUNTY OR STATE, WHICHEVER IS APPROPRIATE, FOR APPROVAL.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS PERTAINING TO HIS OPERATIONS. HE SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY. THE CONTRACTOR'S ATTENTION IS CALLED TO THE REQUIREMENTS OF TITLE 8 OF THE CALIFORNIA ADMINISTRATIVE CODE, SUBCHAPTER 4, ARTICLE 6, "EXCAVATIONS, TRENCHES, EARTHWORK."
- ALL BARRICADES AND OBSTRUCTIONS SHALL BE ILLUMINATED WITH WARNING LIGHTS FROM SUNSET TO SUNRISE. MATERIAL STORAGE AND CONDUCT OF THE WORK ON OR ALONGSIDE PUBLIC STREETS AND HIGHWAYS SHALL CAUSE THE MINIMUM OBSTRUCTION AND INCONVENIENCE TO THE TRAVELING PUBLIC.
- ALL BARRICADES, SIGNS, LIGHTS AND OTHER PROTECTIVE DEVICES SHALL BE INSTALLED AND MAINTAINED IN CONFORMANCE WITH APPLICABLE STATUTORY REQUIREMENTS, AND WHERE WITHIN RAILROAD AND HIGHWAY RIGHT-OF-WAY, AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION THEREOVER.
- THE CONTRACTOR SHALL NOTIFY OWNERS OF ADJACENT PROPERTIES AND UTILITIES WHEN PROSECUTION OF THE WORK MAY AFFECT THEM. WHEN IT IS NECESSARY TO DENY ACCESS TO PROPERTY, OR WHEN ANY UTILITY SERVICE CONNECTION MUST BE INTERRUPTED, THE CONTRACTOR SHALL GIVE NOTICES NOT LESS THAN FORTY-EIGHT HOURS IN ADVANCE TO ENABLE THE AFFECTED PERSONS TO PROVIDE FOR THEIR NEEDS. NOTICES SHALL CONFORM TO ANY APPLICABLE LOCAL ORDINANCES AND, WHETHER DELIVERED IN WRITING OR ORALLY, WILL INCLUDE APPROPRIATE INFORMATION CONCERNING THE INTERRUPTION AND INSTRUCTIONS ON HOW TO LIMIT THEIR INCONVENIENCE.
- UTILITIES AND OTHER CONCERNED AGENCIES SHALL BE CONTACTED AT LEAST FORTY-EIGHT HOURS PRIOR TO CUTTING OR CLOSING A STREET OR OTHER TRAFFIC AREA, EXCAVATING NEAR UNDERGROUND UTILITIES OR POLE LINES, OR PERFORMING WORK WHICH WILL AFFECT THEIR OPERATIONS. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT PH: (800) 227-2600 TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL AREAS OF THE SITE USED BY HIM AND ALL SUBCONTRACTORS IN THE PERFORMANCE OF THEIR WORK. THE CONTRACTOR SHALL EXERCISE FULL CONTROL OVER ALL THE ACTIONS OF ALL EMPLOYEES AND OTHER PERSONS WITH RESPECT TO THE USE AND PRESERVATION OF PROPERTY AND FACILITIES EXCEPT SUCH CONTROLS AS MAY BE SPECIFICALLY RESERVED TO THE OWNER OR OTHERS. THE CONTRACTOR HAS THE RIGHT TO EXCLUDE FROM THE SITE ALL PERSONS WHO HAVE NO PURPOSE RELATED TO THE WORK OR ITS INSPECTION, AND MAY REQUIRE ALL PERSONS ON THE SITE (EXCEPT OWNERS EMPLOYEES) TO OBSERVE THE SAME REGULATIONS AS HE REQUIRES OF HIS EMPLOYEES.
- TRAFFIC CONTROL DEVICES AND INSTALLATIONS SHALL BE IN CONFORMANCE WITH M.U.T.C.D., SECTION IV BY THE U.S. DEPARTMENT OF TRANSPORTATION AND THE CALIFORNIA SUPPLEMENT TO THE M.U.T.C.D., AND MUST MEET THE COUNTY STANDARDS.



STOP BAR  
**LEGEND DETAIL**  
NO SCALE



# LEGEND

- PROPOSED STOP BAR AND LEGEND
- PROPOSED STOP SIGN R-25
- PROPOSED YIELD SIGN
- PROPOSED NO PARKING SIGN
- PROPOSED "T" INTERSECTION SIGN AS PER SAN JOAQUIN COUNTY STANDARDS DRAWING NO. R-26.
- PROPOSED BIKE LANE SIGN
- PROPOSED STREET NAME SIGN R-25
- PROPOSED MONUMENT WELL
- PROPOSED CURB PAINTED RED FOR "NO PARKING" ZONES.
- PLAN & PROFILE SHEET NUMBER

RS 13-10



# RECORD DRAWING

Contractor: *R Canal*  
 Date: 3/12/2009  
 Any Person Using This Drawing Must Verify All Information on the Site. Or Work

BY	DATE	DESCRIPTION

TRACT NO. 3475  
**STRIPING & SIGNAGE PLAN**  
 OAKWOOD LAKE SUBDIVISION, UNIT 2  
 SAN JOAQUIN COUNTY CALIFORNIA

**ASSOCIATED ENGINEERING, INC.**  
 Surveying · Design · Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3675

**R Canal**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

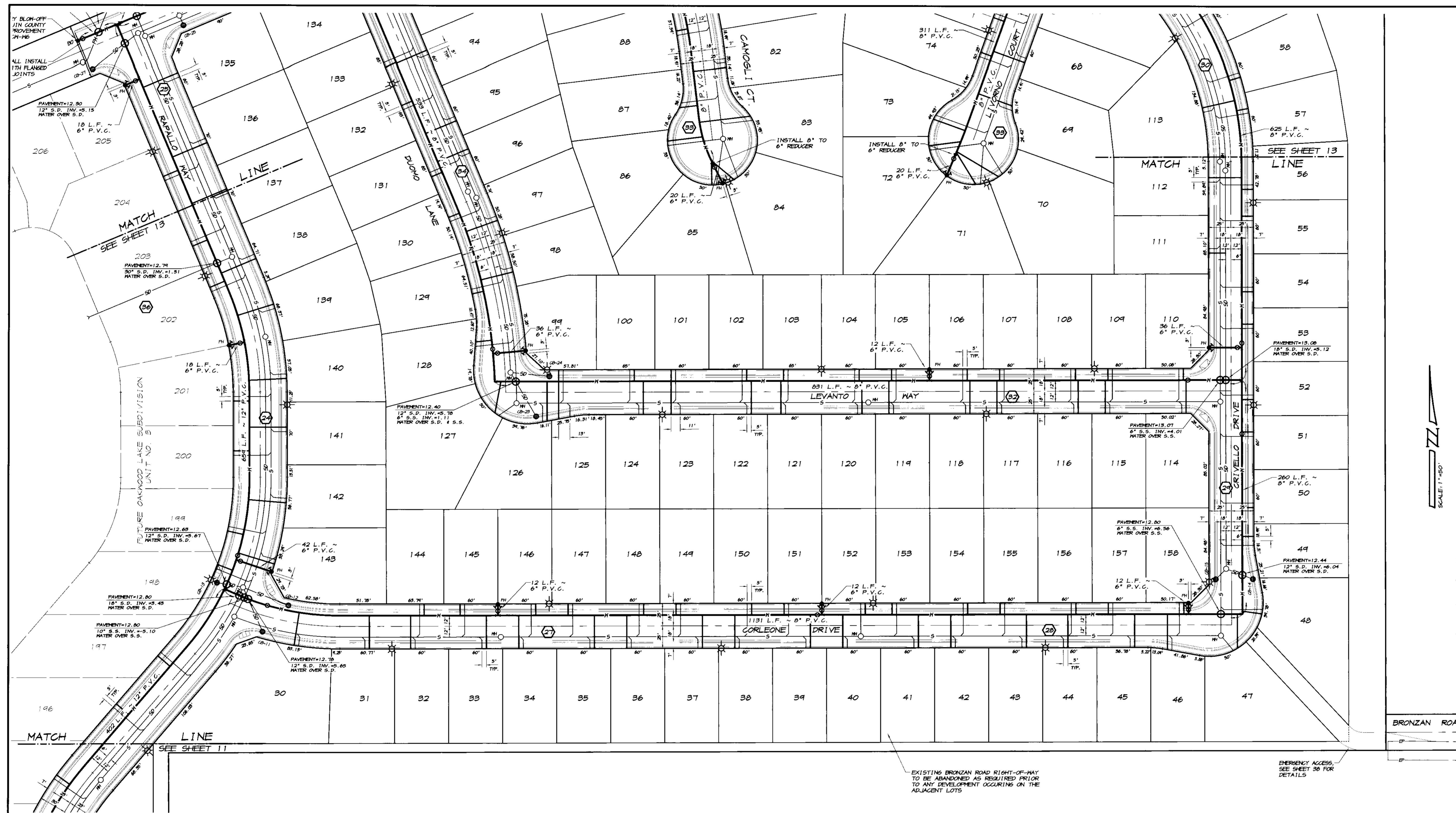
REGISTERED PROFESSIONAL ENGINEER  
 RYAN D. CARREL  
 No. 61619  
 Exp. 9-30-07  
 CIVIL  
 STATE OF CALIFORNIA

DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: 1"=50'  
 DWG: 296-STRIP1  
 CHECKED: KN  
 JOB #: 296A-04

SHEET **14**  
 OF 45







BY	DATE	REVISION	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
 Surveying - Design - Planning  
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 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3330 FAX: (209) 545-3875



TRACT NO. 3475  
**WATER PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

**RYAN CARREL**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126



DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: 1"=50'  
 DWG: 296-NTRI  
 CHECKED: KM  
 JOB #: 296A-04

SHEET  
**12**  
 OF  
**45**

**RECORD DRAWING**

3/12/2008

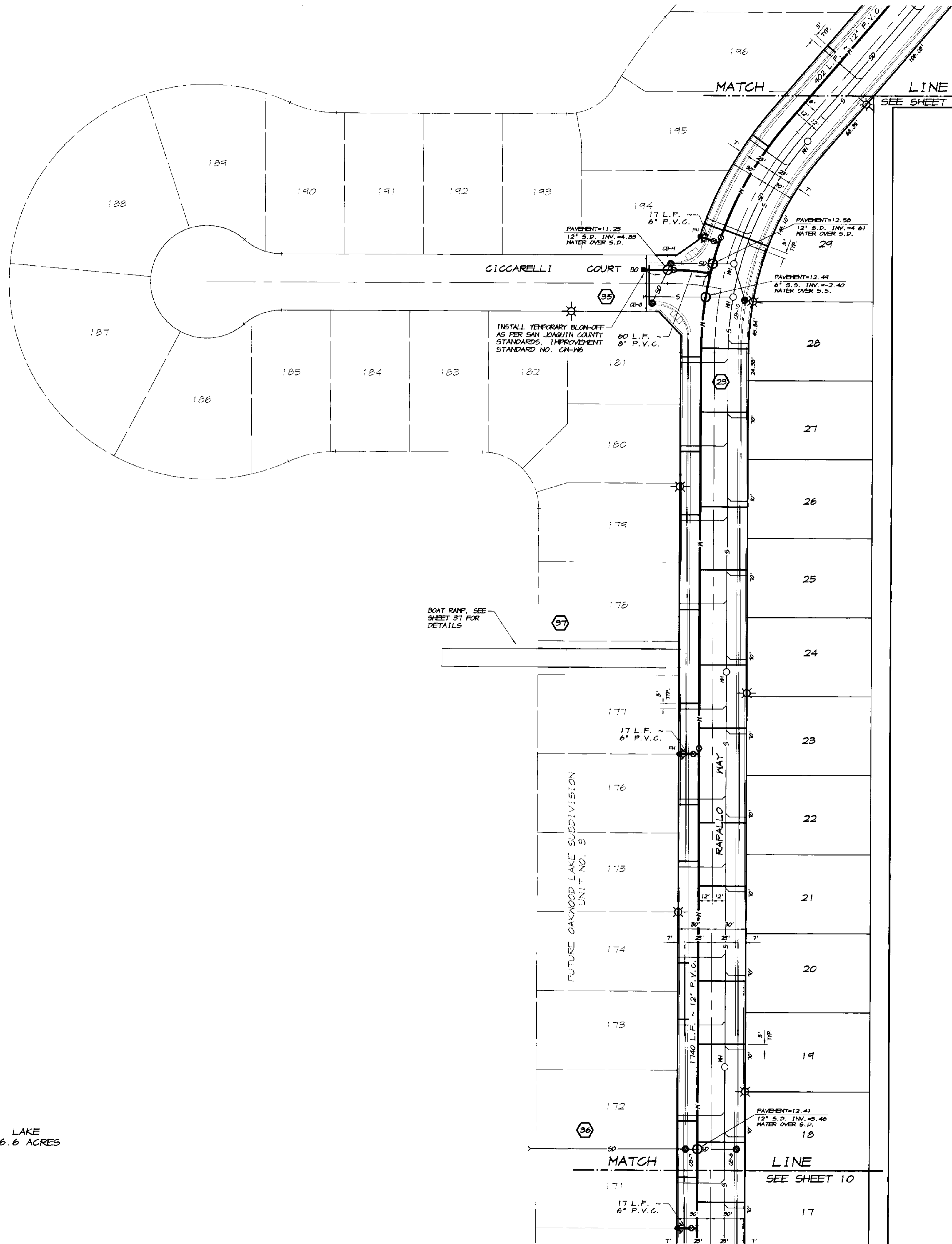
EXISTING BRONZAN ROAD RIGHT-OF-WAY TO BE ABANDONED AS REQUIRED PRIOR TO ANY DEVELOPMENT OCCURRING ON THE ADJACENT LOTS

EMERGENCY ACCESS, SEE SHEET 30 FOR DETAILS

BRONZAN ROAD

SCALE: 1"=50'

LAKE  
66.6 ACRES



30	31	32	33
----	----	----	----

REVISION	DATE	DESCRIPTION	BY

**ASSOCIATED ENGINEERING, INC.**  
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 MODESTO, CALIFORNIA 95356  
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**TRACT NO. 3475**  
**WATER PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

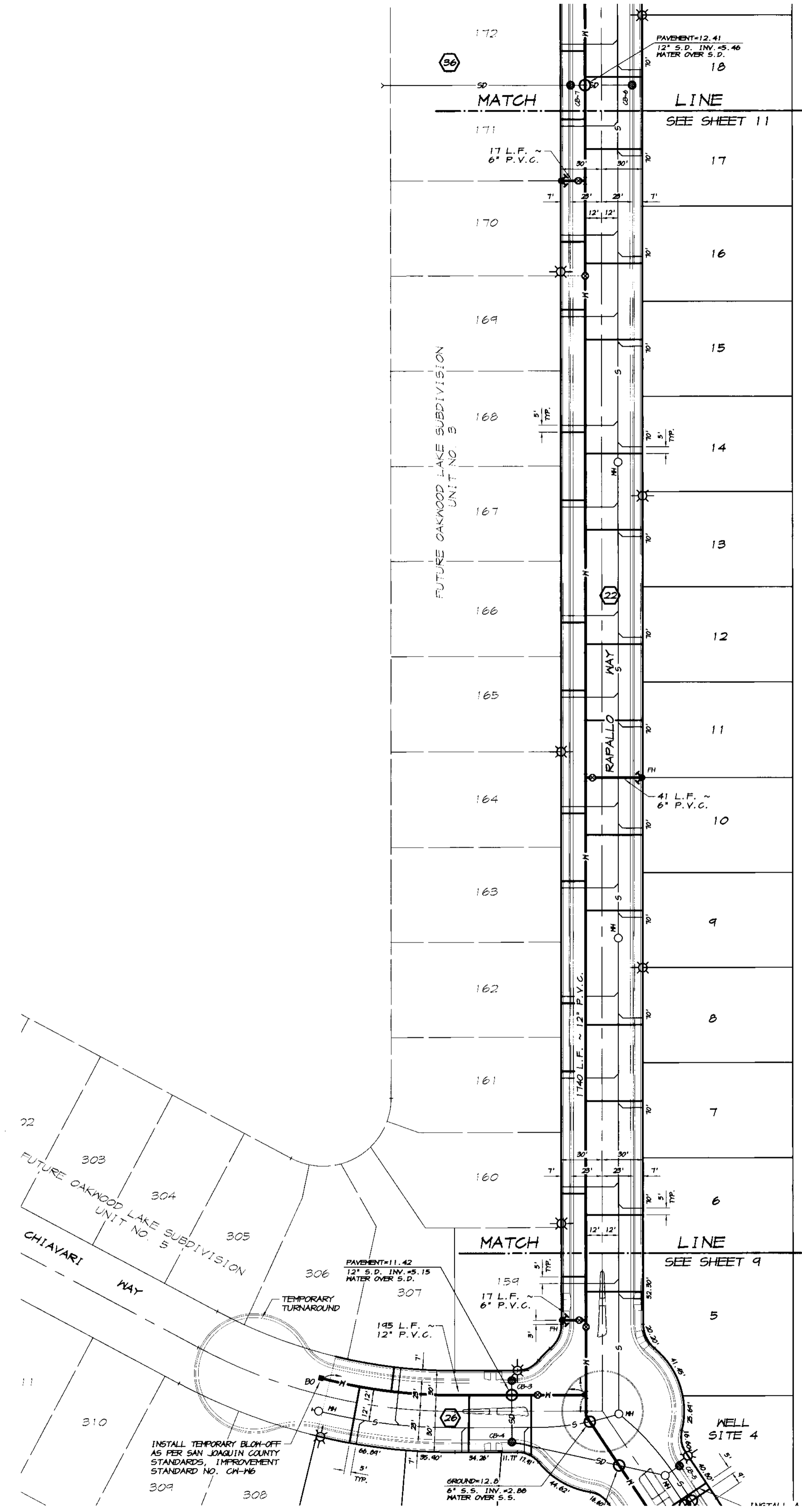
*RCC*  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. #9025  
 DAVE SKIDMORE, L.S. 7126



**RECORD DRAWING**  
 Corrected by:  
 No Change by *RCC*  
 Date: 3/12/2008  
 Any Person Using This Drawing Should Refer to Information on the Drawing for Details.

DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: 1"=50'  
 DWG: 296-NTR1  
 CHECKED: KH  
 JOB #: 296A-04

SHEET  
**11**  
 OF  
**45**



**RECORD DRAWING**  
 Corrections By: *[Signature]*  
 No Change  
 Date: 3/12/2008  
 Any modifications to this drawing should verify all dimensions and details on the field.

REVISION	DATE	DESCRIPTION

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 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

TRACT NO. 3475  
**WATER PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

*[Signature]*  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126



DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: 1"=50'  
 DWG: 296-NTR1  
 CHECKED: KN  
 JOB #: 296A-04

SHEET **10**  
 OF 45

**LEGEND**

- EP— EXISTING EDGE OF PAVEMENT
- - - EXISTING FENCE
- ⊙ EXISTING MONITORING WELL
- M— EXISTING MANTEGA OUTFALL LINE
- S— PROPOSED SANITARY SEWER LINE
- MH PROPOSED MANHOLE
- H— PROPOSED 4" HOUSE SEWER LATERAL
- SD— PROPOSED STORM DRAIN LINE
- ⊙ CB-3 PROPOSED STORM DRAIN CATCH BASIN
- W— PROPOSED WATER LINE
- WH— PROPOSED WELL WATER LINE (UNTREATED)
- ⊙ FH PROPOSED FIRE HYDRANT
- ⊙ G PROPOSED GATE VALVE
- H— PROPOSED 1" HOUSE WATER SERVICE UNLESS NOTED OTHERWISE.
- BO PROPOSED TEMPORARY BLOW-OFF
- ⊙ E PROPOSED ELECTROLIER

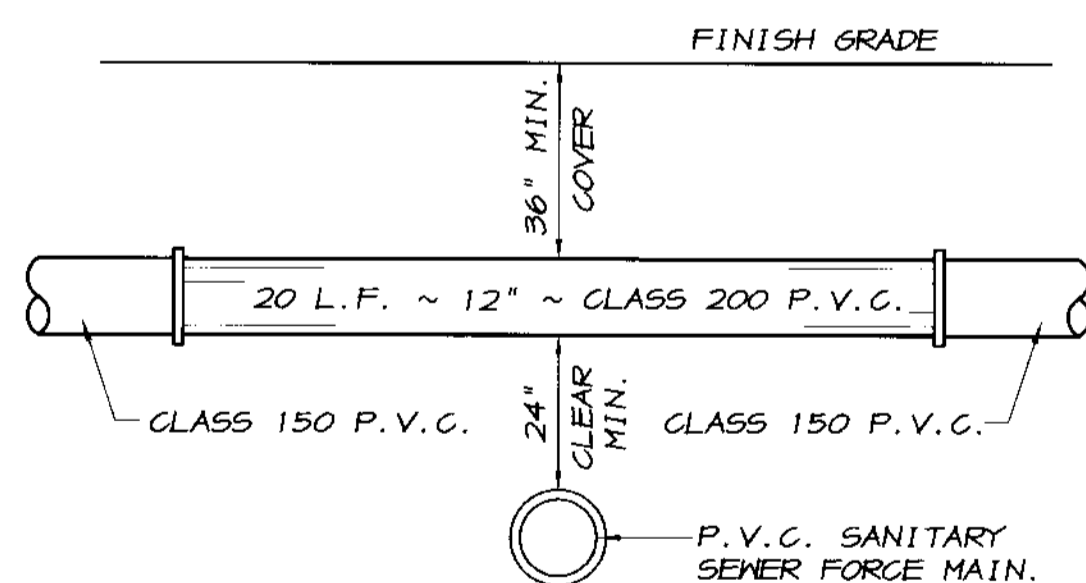
**STANDARD LOCATIONS**

(UNLESS NOTED OTHERWISE)

- MAINS : 12' FROM STREET CENTERLINES.
- SERVICES : 5' MINIMUM FROM THE 4" HOUSE SANITARY SEWER LATERAL.

**GENERAL NOTES**

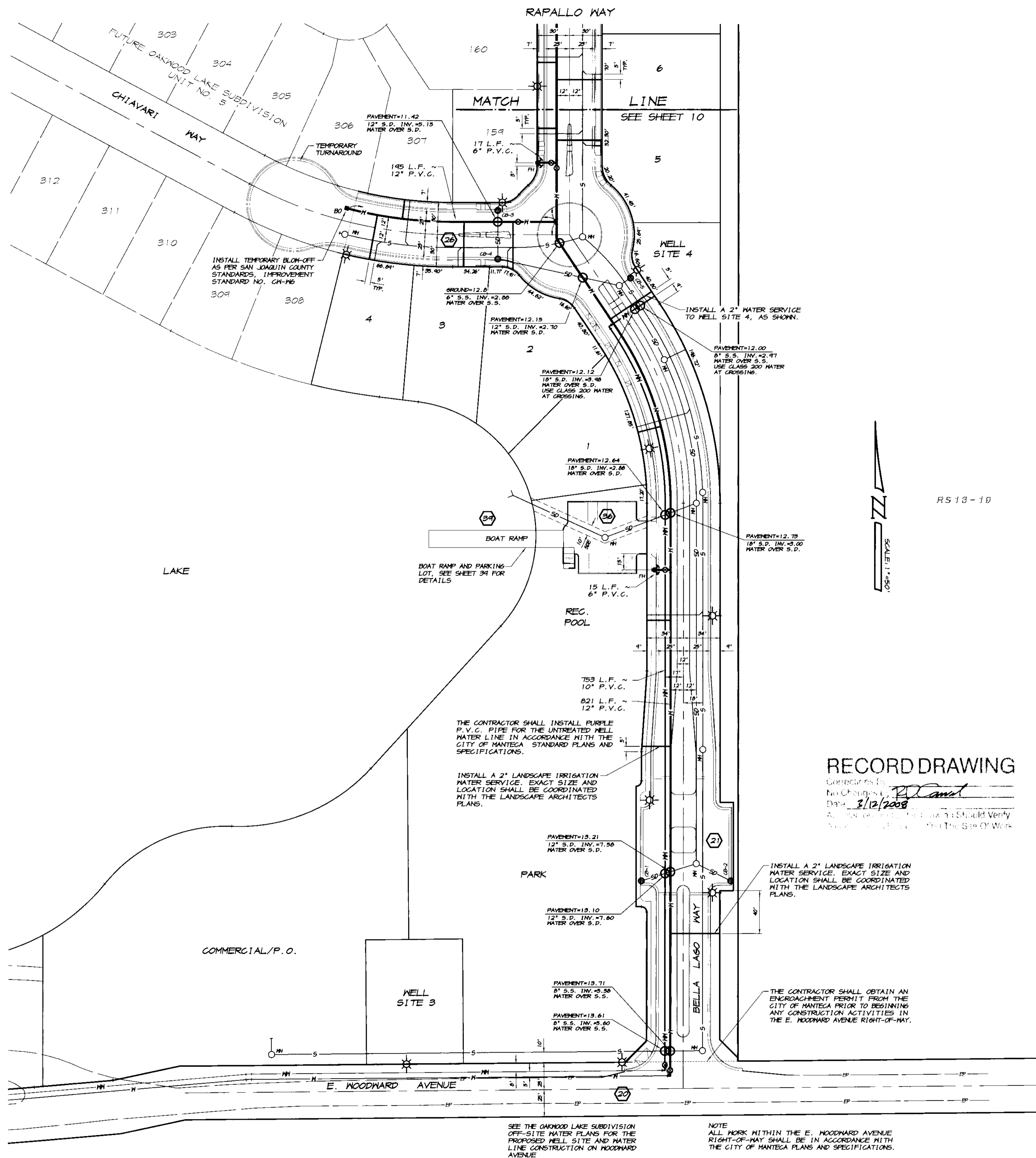
1. VALVE SIZES: ALL VALVES SHALL BE THE SAME SIZE AS THE PIPE.
2. FITTINGS: ALL FITTINGS SHALL BE THE SAME SIZE AS THE PIPE. WHERE PIPE SIZES REDUCE AT A FITTING, THE REDUCTION MUST OCCUR THROUGH THE FITTING, OR AT THE OUTLET. PIPE SIZES MAY NOT BE REDUCED PRIOR TO THE FITTINGS.



NOTE  
CENTER CLASS 200 P.V.C. OVER THE SEWER FORCE MAIN.

**DETAIL "A"**

NO SCALE



**RECORD DRAWING**

Prepared by: *PC Canal*  
 No Changes  
 Date: 3/12/2008  
 Approved by: *PC Canal*  
 Date: 3/12/2008  
 All work shall be done in accordance with the City of Mantege Specifications for the Work.

SEE THE OAKWOOD LAKE SUBDIVISION OFF-SITE WATER PLANS FOR THE PROPOSED WELL SITE AND WATER LINE CONSTRUCTION ON WOODWARD AVENUE

NOTE  
ALL WORK WITHIN THE E. WOODWARD AVENUE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE CITY OF MANTEGA PLANS AND SPECIFICATIONS.

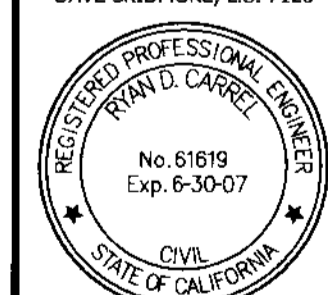
TRACT NO. 3475

**WATER PLAN**

**OAKWOOD LAKE SUBDIVISION, UNIT 2**

SAN JOAQUIN COUNTY CALIFORNIA

**PC Canal**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126



DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: 1"=50'  
 DWG: 296-MTR1  
 CHECKED: KM  
 JOB #: 296A-04

SHEET  
**9**  
 OF  
**45**

**ASSOCIATED ENGINEERING, INC.**  
 Surveying - Design - Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875



RS 13-19  
 SCALE: 1"=50'

BY	DATE	REVISION	DESCRIPTION

REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
 Surveying • Design • Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95336  
 PH: (209) 545-3390 FAX: (209) 545-3875



**SANITARY SEWER AND STORM DRAIN PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

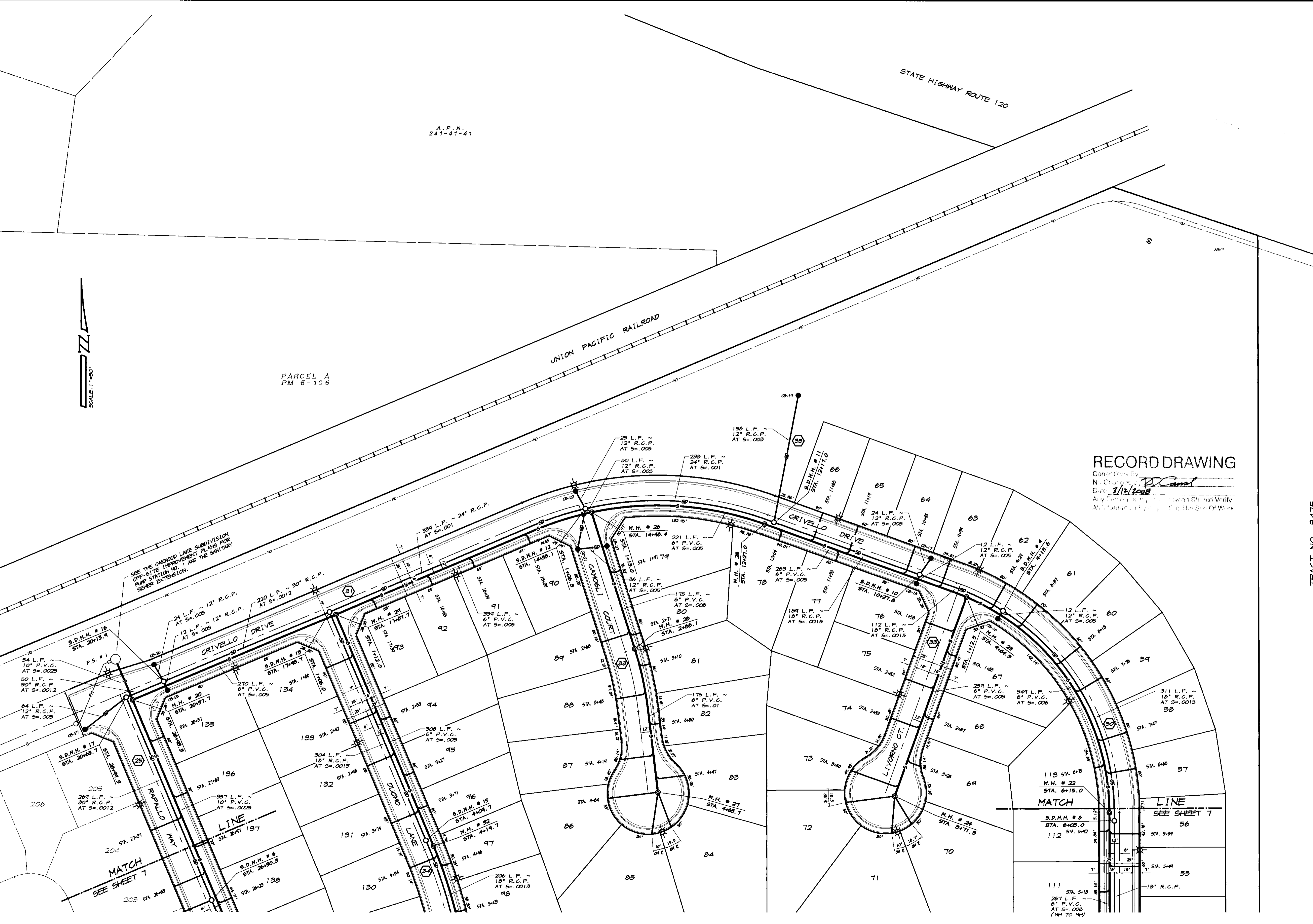
TRACT NO. 3475

**Camel**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126



DRAWN BY: J.S.H.  
 DATE: 6/14/08  
 SCALE: 1"=50'  
 DWG: 296-SSSD1  
 CHECKED: KN  
 JOB #: 296A-04

SHEET **8** OF 45

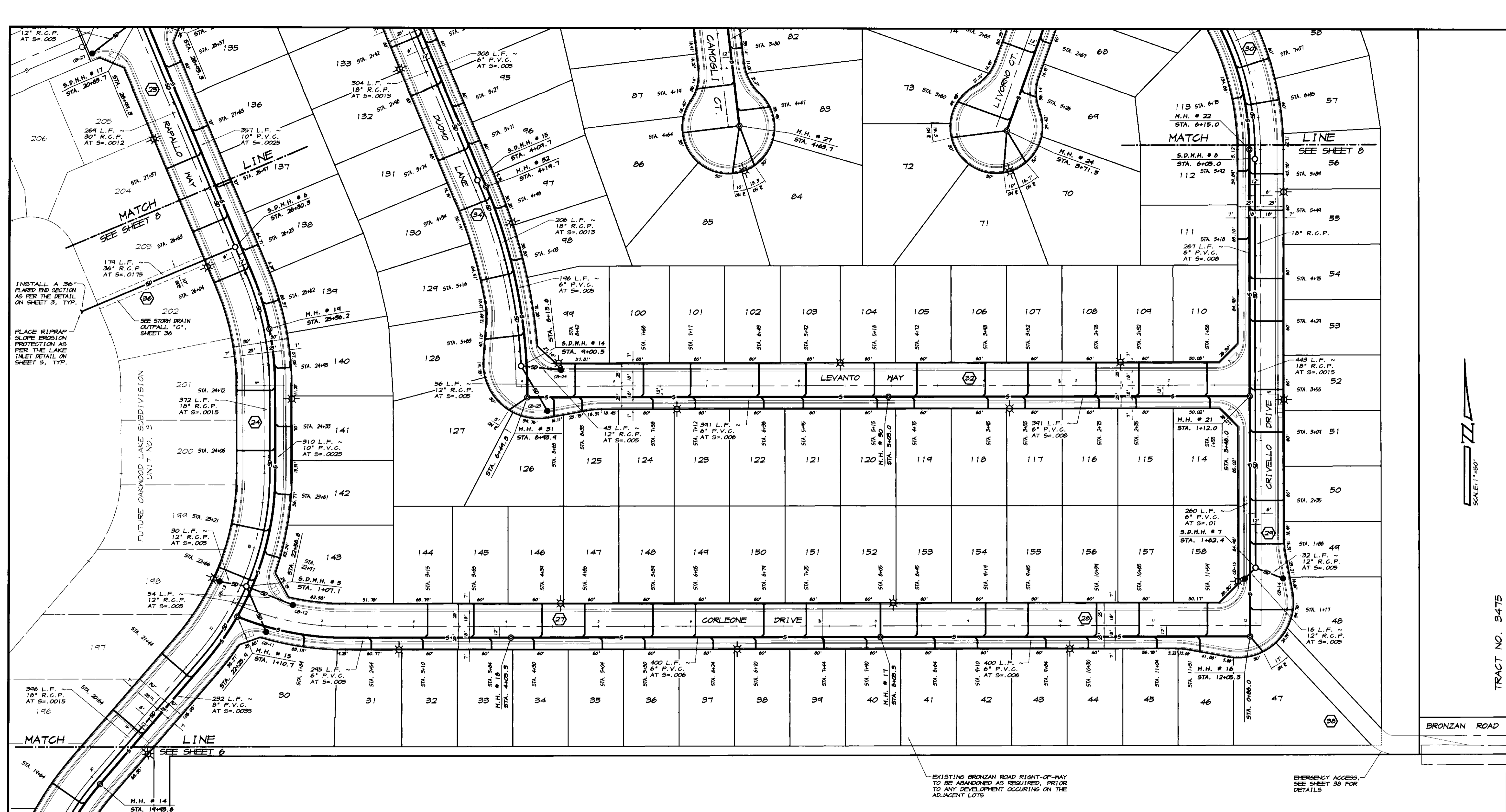


**RECORD DRAWING**  
 Corrected By: *BC*  
 No. Change: 2  
 Date: 7/12/2008  
 Any Further Work on this Drawing Should Verify All Information on the Original Set of Work

A.P.N.  
 241-41-41

PARCEL A  
 PM 6-106





REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
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 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875



**SANITARY SEWER AND STORM DRAIN PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

TRACT NO. 3475

**RECORD DRAWING**  
 3/12/2008  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: 1"=50'  
 DWG: 296-SSSD1  
 CHECKED: KM  
 JOB #: 296A-04

SHEET **7**  
 OF 45

EXISTING BRONZAN ROAD RIGHT-OF-WAY TO BE ABANDONED AS REQUIRED, PRIOR TO ANY DEVELOPMENT OCCURRING ON THE ADJACENT LOTS

EMERGENCY ACCESS, SEE SHEET 30 FOR DETAILS

INSTALL A 36" FLARED END SECTION AS PER THE DETAIL ON SHEET 3, TYP.

PLACE RIPRAP SLOPE EROSION PROTECTION AS PER THE LAKE INLET DETAIL ON SHEET 5, TYP.

SEE STORM DRAIN OUTFALL "C", SHEET 36

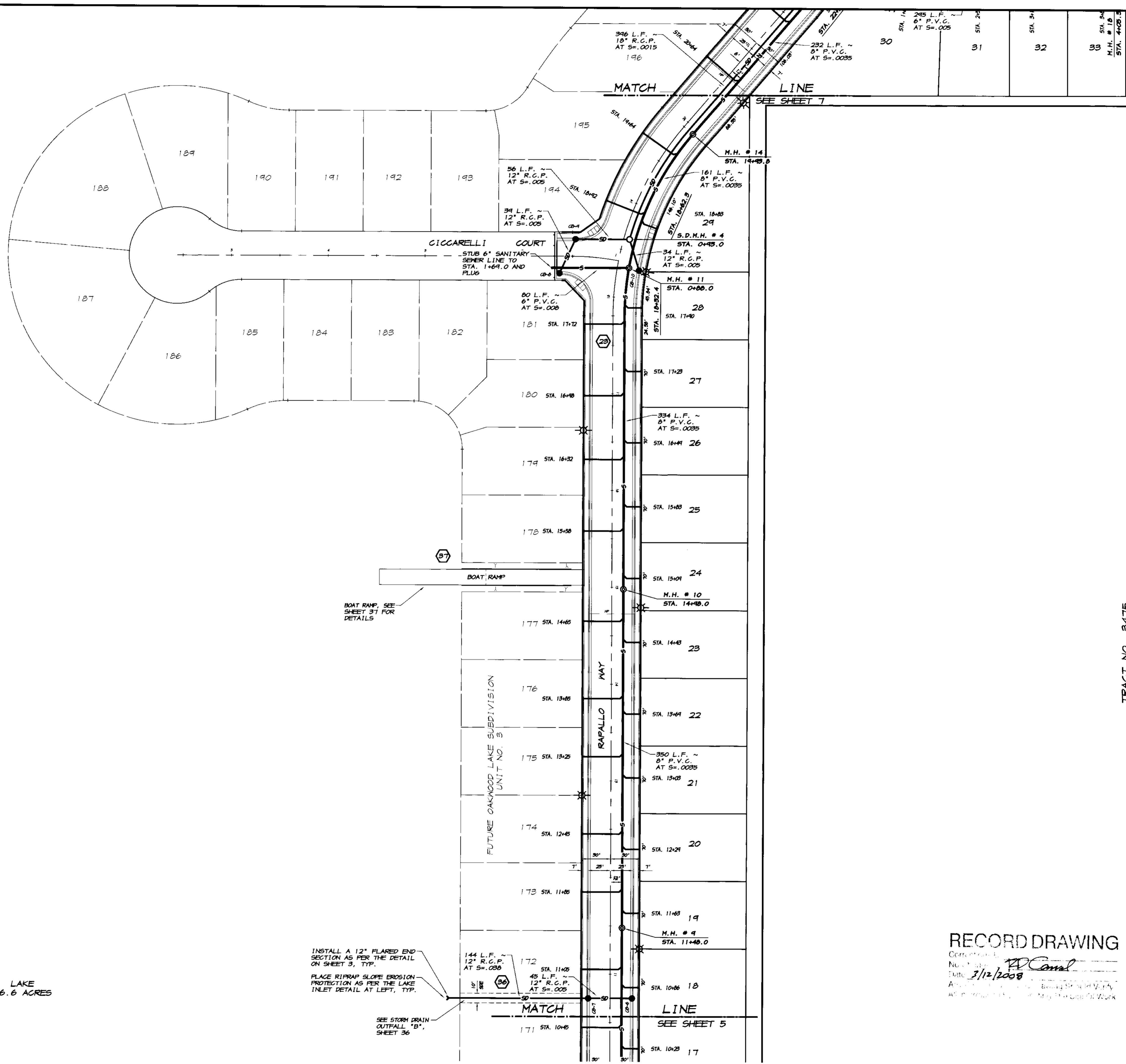
MATCH LINE SEE SHEET 6

BRONZAN ROAD



SCALE: 1"=50'

LAKE  
66.6 ACRES



INSTALL A 12" FLARED END SECTION AS PER THE DETAIL ON SHEET 3, TYP.  
PLACE RIPRAP SLOPE EROSION PROTECTION AS PER THE LAKE INLET DETAIL AT LEFT, TYP.

SEE STORM DRAIN OUTFALL "B", SHEET 36

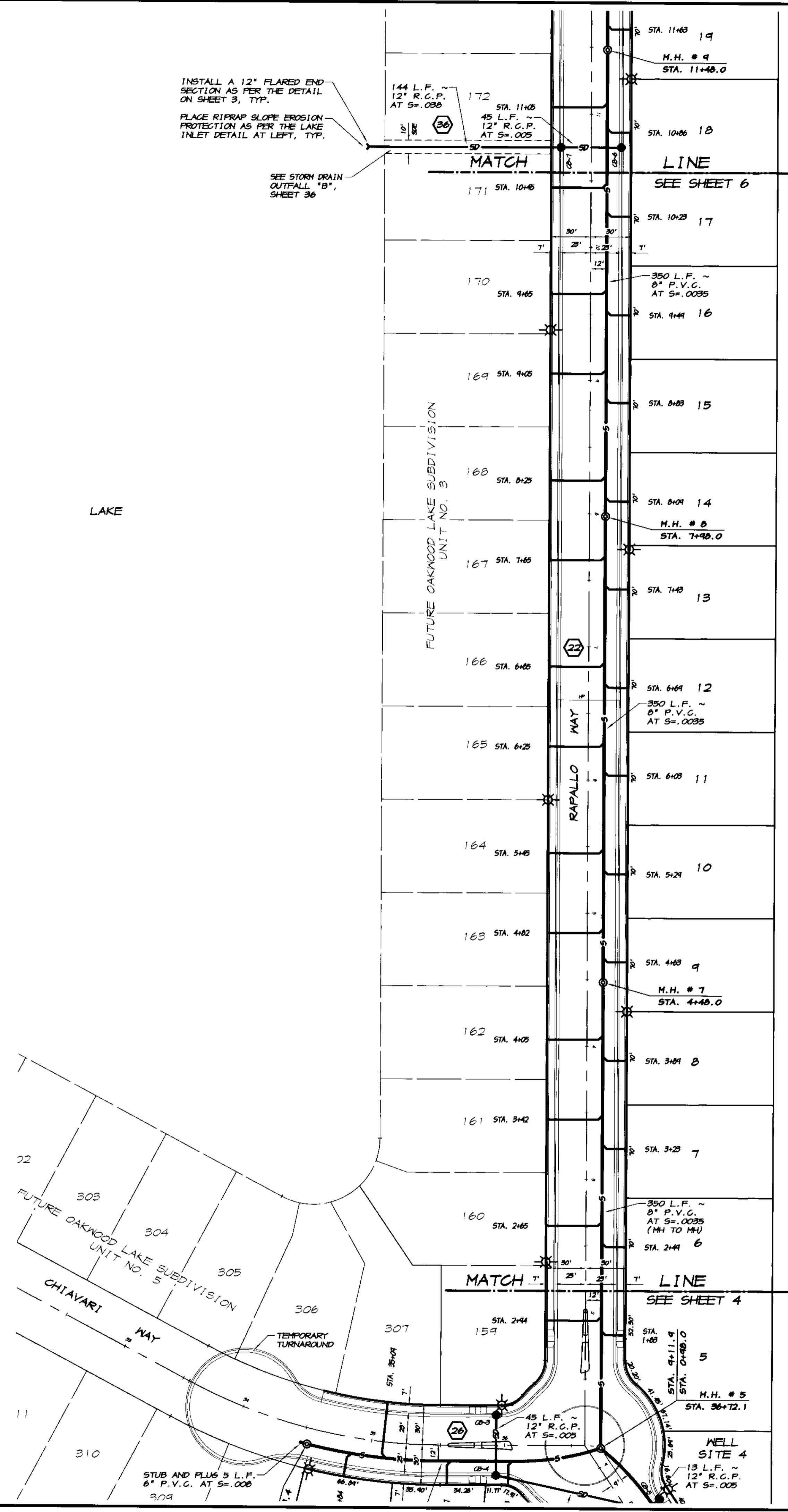
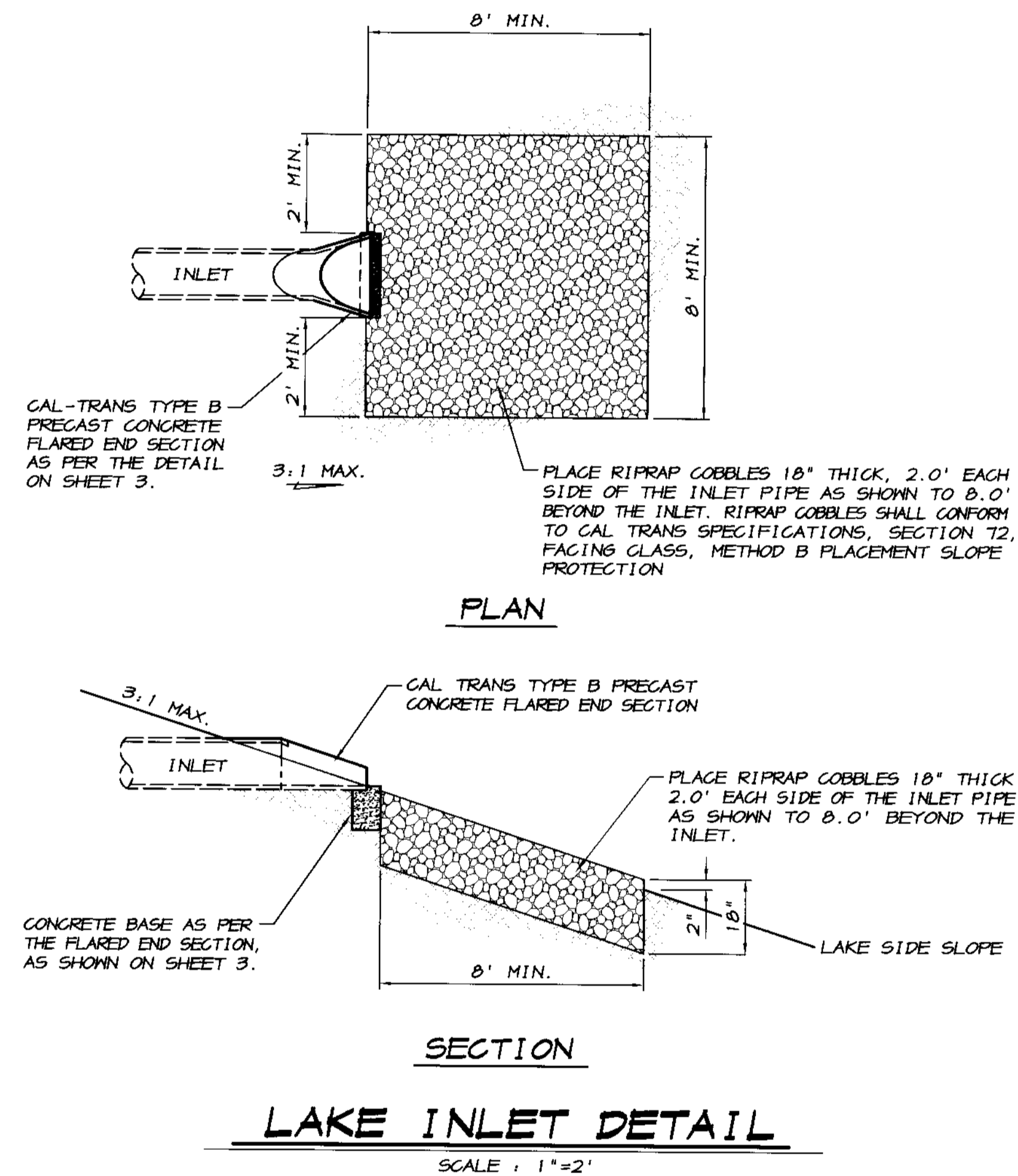
**RECORD DRAWING**

Checked by: *PC*  
Date: 3/12/2008  
Approved by: *PC*

BY		
REVISION	DATE	DESCRIPTION
<p><b>ASSOCIATED ENGINEERING, INC.</b>          Surveying • Design • Planning          4206 TECHNOLOGY DRIVE          MODESTO, CALIFORNIA 95356          PH: (209) 545-3380 FAX: (209) 545-3875</p>		
<p><b>SANITARY SEWER AND STORM DRAIN PLAN</b>  <b>OAKWOOD LAKE SUBDIVISION, UNIT 2</b>          SAN JOAQUIN COUNTY CALIFORNIA</p>		
TRACT NO. 3475		
<p>RYAN CARREL, R.C.E. 61619          DANIEL ENGLAND, R.C.E. 49026          DAVE SKIDMORE, L.S. 7126</p>		
<p><b>REGISTERED PROFESSIONAL ENGINEER</b>          RYAN CARREL          No. 61619          Exp. 6-30-07          CIVIL          STATE OF CALIFORNIA</p>		
<p>DRAWN BY: J.S.H.          DATE: 6/14/05          SCALE: 1"=50'          DWG: 246-555D1          CHECKED: KN          JOB #: 246A-04</p>		
SHEET		
<p><b>6</b> OF <b>45</b></p>		



SU 3909



**RECORD DRAWING**  
 Drawn by: J.S.H.  
 Date: 6/14/05  
 Scale: 1"=50'  
 DWG: 296-558D1  
 Checked: KM  
 Job #: 296A-04

REVISION	DATE	DESCRIPTION

TRACT NO. 34715

**SANITARY SEWER AND STORM DRAIN PLAN**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
 SAN JOAQUIN COUNTY CALIFORNIA

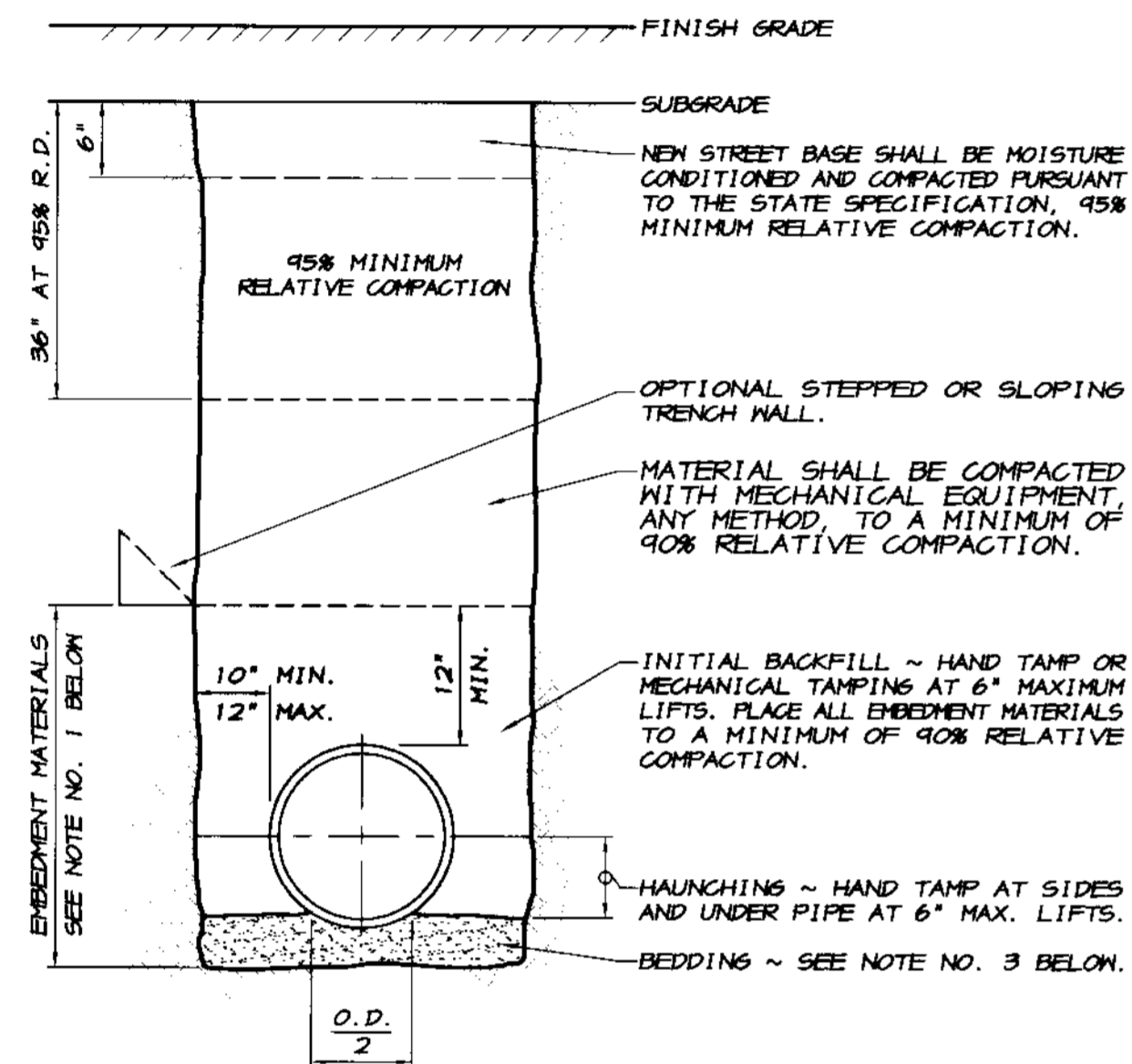
**ASSOCIATED ENGINEERING, INC.**  
 Surveying • Design • Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

**RYAN CARREL, R.C.E.** 61619  
**DANIEL ENGLAND, R.C.E.** 49026  
**DAVE SKIDMORE, L.S.** 7126

REGISTERED PROFESSIONAL ENGINEER  
 RYAN CARREL  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

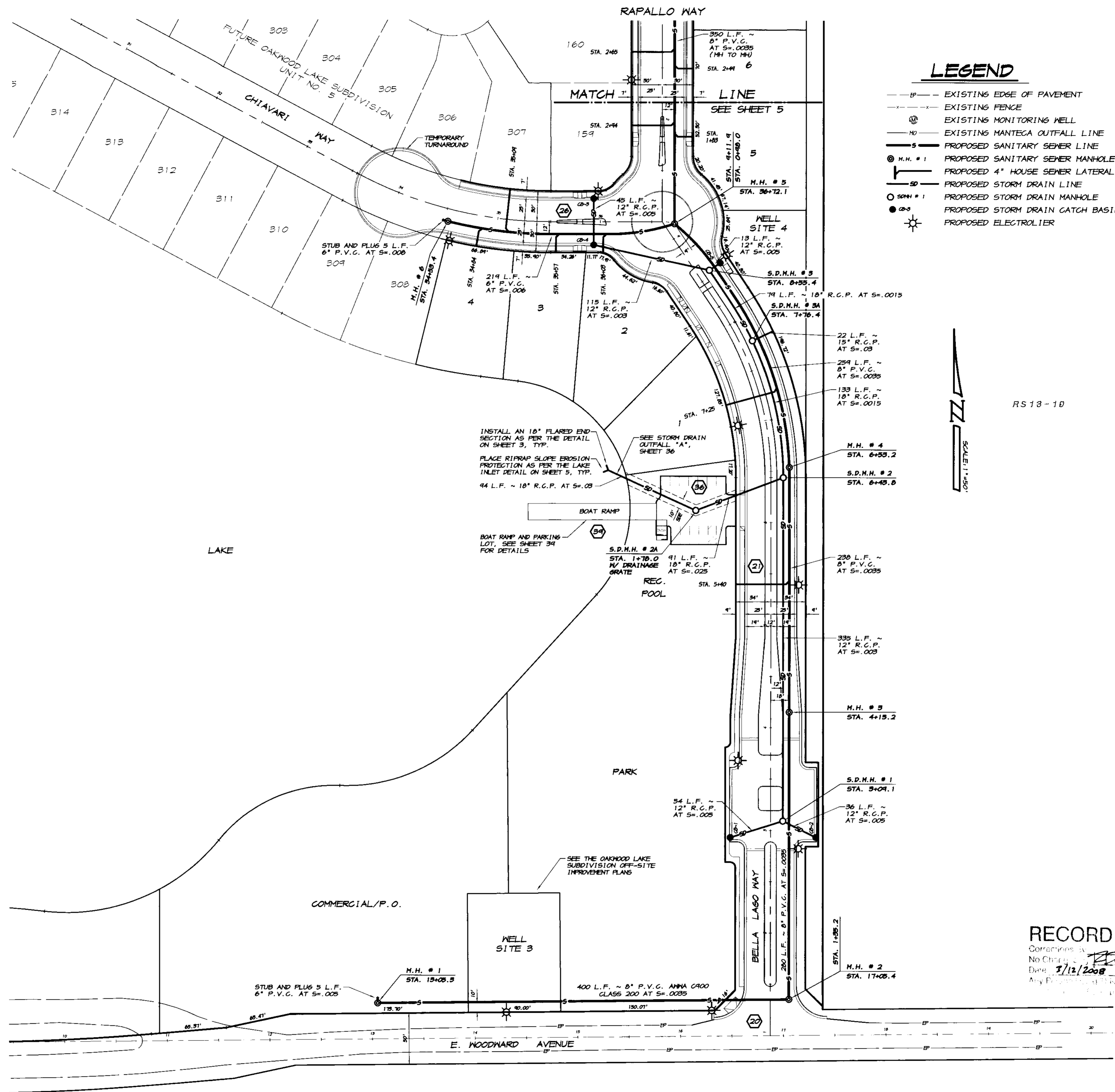
Drawn by: J.S.H.  
 Date: 6/14/05  
 Scale: 1"=50'  
 DWG: 296-558D1  
 Checked: KM  
 Job #: 296A-04

SHEET 5 OF 45



- NOTES**
- ALL EMBEDMENT MATERIALS SHALL CONFORM TO CLASS I, II OR III SOIL CLASSIFICATIONS AS DESIGNATED IN ASTM D-2321.
    - CLASS I: ANGULAR 1/2 TO 1 1/2" GRADED STONE, INCLUDING A NUMBER OF FILL MATERIALS THAT HAVE REGIONAL SIGNIFICANCE SUCH AS CORAL, SLAG, CINDERS, CRUSHED STONE OR CRUSHED SHELLS.
    - CLASS II: COARSE SANDS AND GRAVELS WITH MAXIMUM PARTICLE SIZE OF 1/4", INCLUDING VARIOUSLY GRADED SANDS AND GRAVELS CONTAINING SMALL PERCENTAGES OF FINES, GENERALLY GRANULAR AND NON-COHESIVE, EITHER NET OR DRY. SOILS TYPES GM, GP, SM AND SP ARE INCLUDED IN THIS CLASS.
    - CLASS III: FINE SAND AND CLAY GRAVELS, INCLUDING FINE SANDS, SAND-CLAY MIXTURES, AND GRAVEL-CLAY MIXTURES. SOIL TYPES GM, GC, SM AND SC ARE INCLUDED IN THIS CLASS. CLASS III MATERIALS SHALL NOT BE USED IN EMBEDMENT ZONE OF PIPELINES THAT ARE GREATER THAN 14' OF COVER TO THE PROPOSED FINISH GRADE.
  - SELECTED NATIVE MATERIALS CONFORMING TO CLASS I, II, OR III MAY BE USED IN ALL EMBEDMENT ZONES. NATIVE MATERIAL SHALL BE FREE OF ORGANIC MATERIAL, STONES OR LUMPS EXCEEDING 3" IN GREATEST DIMENSION.
  - ANY AREA AT THE BOTTOM OF THE TRENCH DETERMINED TO BE UNSUITABLE BY THE GEOTECHNICAL ENGINEER SHALL BE REMOVED AND REPLACED WITH 6" OF CLASS I, II OR III MATERIALS AT 95% MINIMUM RELATIVE COMPACTION. IN A CASE WHERE THE TRENCH BOTTOM IS UNSTABLE, THE BOTTOM AREA SHALL BE REMOVED AND REPLACED WITH CLASS I, II OR III MATERIALS TO A DEPTH DETERMINED BY THE GEOTECHNICAL ENGINEER.
  - JETTING WILL NOT BE ALLOWED IN THE EMBEDMENT ZONES. COMPACTION OF EMBEDMENT MATERIALS SHALL CONSIST OF HAND TAMPING AND/OR MECHANICAL TAMPING.

P.V.C. SANITARY SEWER  
**TRENCH SECTION**  
NO SCALE



**RECORD DRAWING**  
 Contains:  
 No Changes  
 Date: 5/12/2008  
 Any Discrepancies Between This Drawing and the Original Plans Shall Be Resolved by the Original Designer.

TRACT NO. 3475

**SANITARY SEWER AND STORM DRAIN PLAN**

**OAKWOOD LAKE SUBDIVISION, UNIT 2**

SAN JOAQUIN COUNTY CALIFORNIA

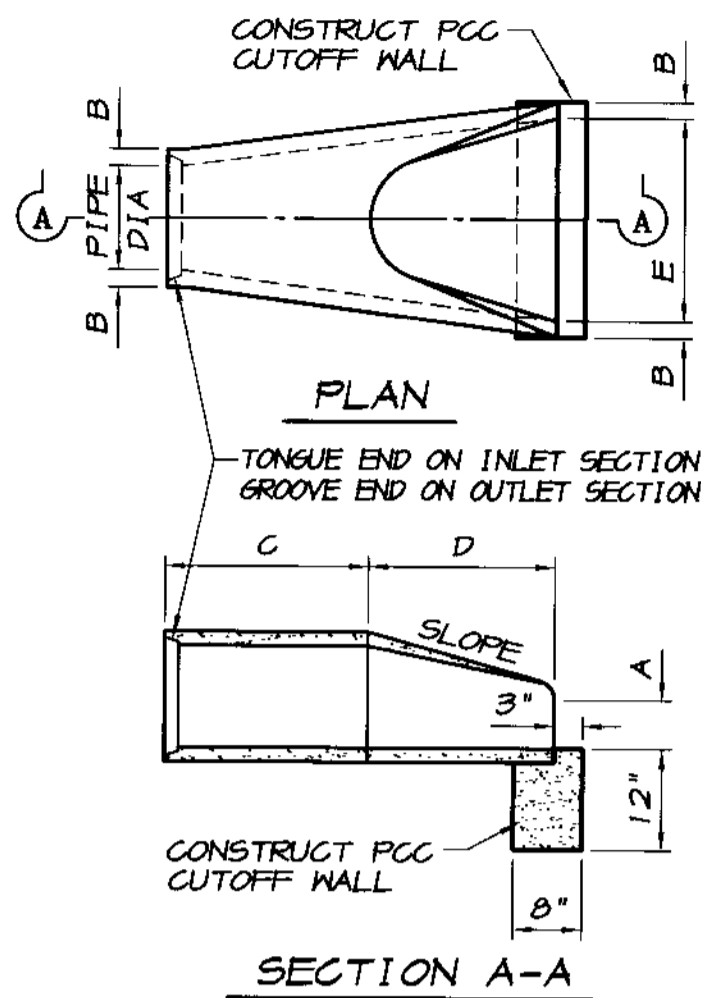
**ASSOCIATED ENGINEERING, INC.**  
 Surveying - Design - Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

**RECORD DRAWING**  
 RYAN CARREL, R.C.E. 61619  
 DANIEL ENGLAND, R.C.E. 49026  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 RYAN D. CARREL  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

DRAWN BY: J.S.H.  
 DATE: 6/14/05  
 SCALE: 1"=50'  
 DWG: 246-55501  
 CHECKED: KJM  
 JOB # 246A-04

SHEET **4** OF 45

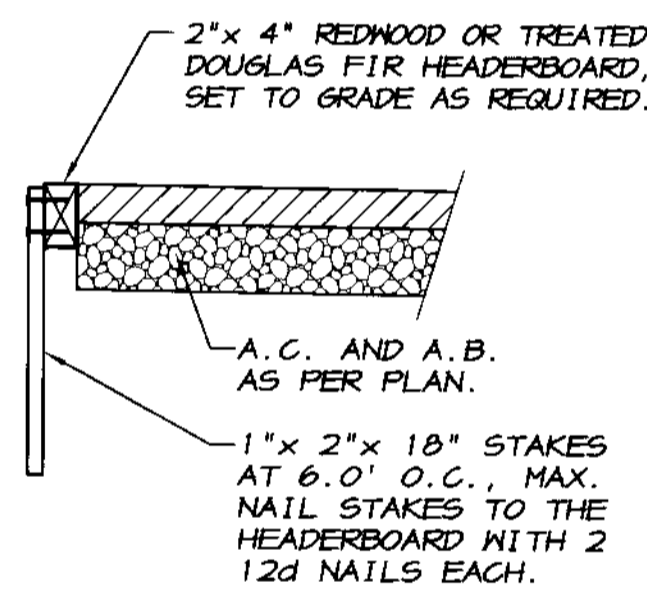


PIPE DIA	A	B	C	D	E	SLOPE
12"	4"	1 3/4"	24"	24"		
18"	9"	2 1/4"	27"	36"		
24"	12"	3 1/4"	43 1/2"	48"		
30"	15"	4 1/4"	54"	60"		
36"	18"	5 1/4"	63"	72"		
42"	21"	6 1/4"	72"	84"		
48"	24"	7 1/4"	81"	96"		
54"	27"	8 1/4"	90"	108"		

VARIES WITH MANUFACTURER  
2:1 OR FLATTER

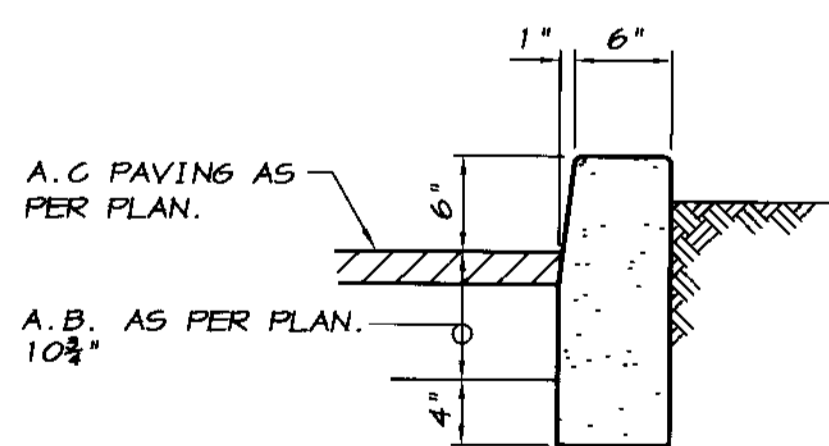
**PRECAST CONCRETE  
FLARED END SECTION DETAIL**

NO SCALE



**2" X 4"  
HEADERBOARD**

SCALE: 1"=1'



**6" CURBING DETAIL**

NO SCALE

STREET NAME	RIGHT OF WAY WIDTH			SIDEWALK WIDTH	CURB TYPE	PROPERTY LINE TO FLOW LINE	STRUCTURAL SECTION	TRAFFIC INDEX *R* VALUE
	50'	60'	60'					
BELLA LAGO WAY				4 1/2"	6"			0.20 / 0.70 5.0 20
RAPALLO WAY				4.5"				0.20 / 0.70 5.0 20
CHIAVARI WAY				4.5"				0.20 / 0.70 5.0 20
CORLEONE DRIVE				4.5"				0.20 / 0.70 5.0 20
CRIVELLO DRIVE STA. 1+00 TO STA. 11+50.67				4.5"				0.20 / 0.70 5.0 20
CRIVELLO DRIVE STA. 11+50.67 TO STA. 20+64.66				4.5" (S)	(N)			0.20 / 0.70 5.0 20
LIVORNO COURT				4.5"				0.20 / 0.70 5.0 20
GAMOGLI COURT				4.5"				0.20 / 0.70 5.0 20
LEVANTO WAY				4.5"				0.20 / 0.70 5.0 20
DUOMO LANE				4.5"				0.20 / 0.70 5.0 20

**R-VALUE NOTE**

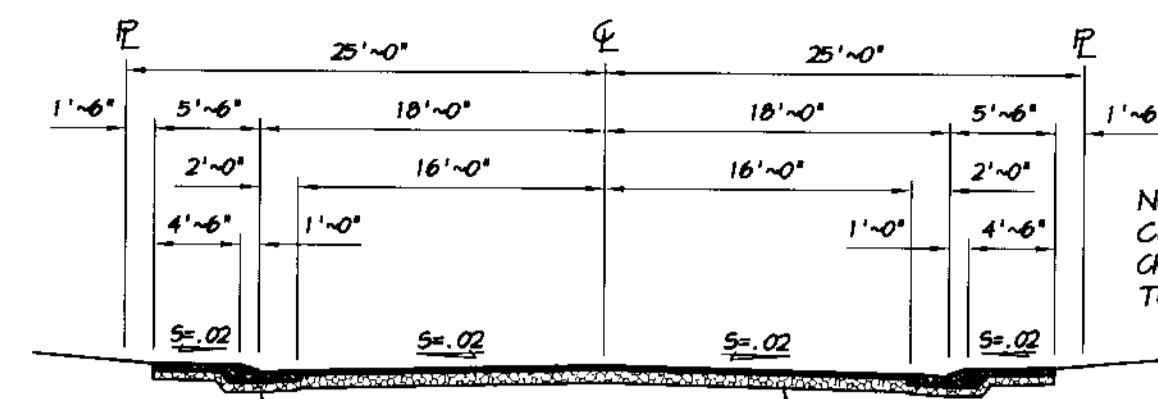
R-VALUE TESTING SHALL BE PERFORMED ON SUBGRADE AFTER THE ROUGH GRADING HAS BEEN COMPLETED, TO VERIFY THE EXACT R-VALUES TO BE USED FOR THE FINAL ASPHALTIC PAVEMENT DESIGNS. THE CONTRACTOR SHALL WORK CLOSELY WITH THE SOILS ENGINEER TO DETERMINE THE EXTENTS OF THE GRADING WORK REQUIRED IN AREAS DEEMED UNACCEPTABLE BY THE SOILS ENGINEER. ALL FINAL DESIGNS AND SOLUTIONS SHALL BE APPROVED BY SAN JOAQUIN COUNTY PRIOR TO PLACING THE AGGREGATE BASE ROCK.

**ABBREVIATIONS**

- AB AGGREGATE BASE
- AC ASPHALT CONCRETE
- ARV AIR RELIEF VALVE
- ∠ PT. ANGLE POINT
- BC BEGINNING OF CURVE
- BMP BEST MANAGEMENT PRACTICES
- BO BLOWOFF
- CB CATCH BASIN
- CL CENTERLINE
- (E) EAST
- EC END OF CURVE
- EP EDGE OF PAVEMENT
- EVA EMERGENCY VEHICLE ACCESS
- EX EXISTING
- FH FIRE HYDRANT
- FL, E FLOWLINE
- GB GRADE BREAK
- HSL HYDRAULIC GRADE LINE
- HP HIGH POINT
- INV INVERT
- L.F. LINEAR FEET
- MH MAINTENANCE HOLE
- (N) NORTH
- P PROPERTY LINE
- PCC POINT OF CONCAVE CURVE
- PP POWER POLE
- PRC POINT OF REVERSE CURVE
- PROP. PROPOSED
- PVC POLYVINYL CHLORIDE
- PUE PUBLIC UTILITY EASEMENT
- R RESISTANCE
- RCP REINFORCED CONCRETE PIPE
- RP RADIUS POINT
- R/W RIGHT-OF-WAY
- S SANITARY SEWER
- (S) SOUTH
- SD STORM DRAIN
- SDMH STORM DRAIN MAINTENANCE HOLE
- SNS STREET NAME SIGN
- STA. STATION
- SN SIDEWALK
- TC TOP OF CURB
- TEMP TEMPORARY
- TI TRAFFIC INDEX
- TYP TYPICAL
- W WATER
- (W) WEST

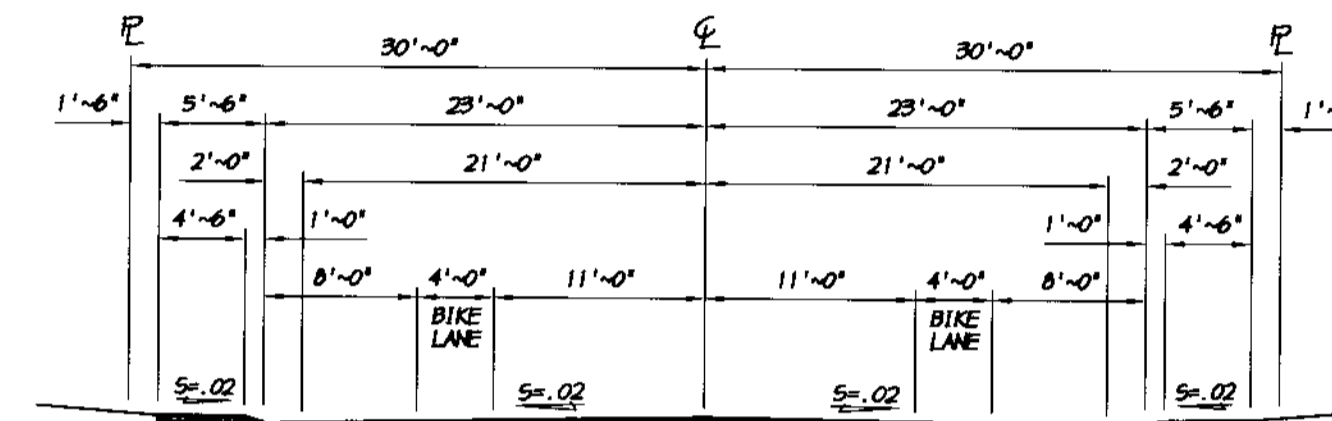
**LEGEND**

- EXISTING GROUND ELEVATION
- EXISTING PAVEMENT ELEVATION
- EXISTING EDGE OF PAVEMENT ELEVATION
- EXISTING POWER POLE
- EXISTING EDGE OF PAVEMENT
- EXISTING GROUND CONTOUR
- EXISTING EDGE OF PAVEMENT
- EXISTING FENCE
- EXISTING MANTECA OUTFALL LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED 4" HOUSE SEWER LATERAL
- PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN CATCH BASIN
- PROPOSED WATER LINE
- PROPOSED WELL WATER LINE (UNTREATED)
- PROPOSED FIRE HYDRANT
- PROPOSED WATER LINE GATE VALVE
- PROPOSED 1" HOUSE WATER SERVICE UNLESS NOTED OTHERWISE.
- PROPOSED TEMPORARY BLOW-OFF
- PROPOSED ELECTROLIER
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED CURB, GUTTER AND SIDEWALK
- PROPOSED SLOPE AND DIRECTION OF FLOW
- PLAN AND PROFILE PAGE REFERENCE NO.



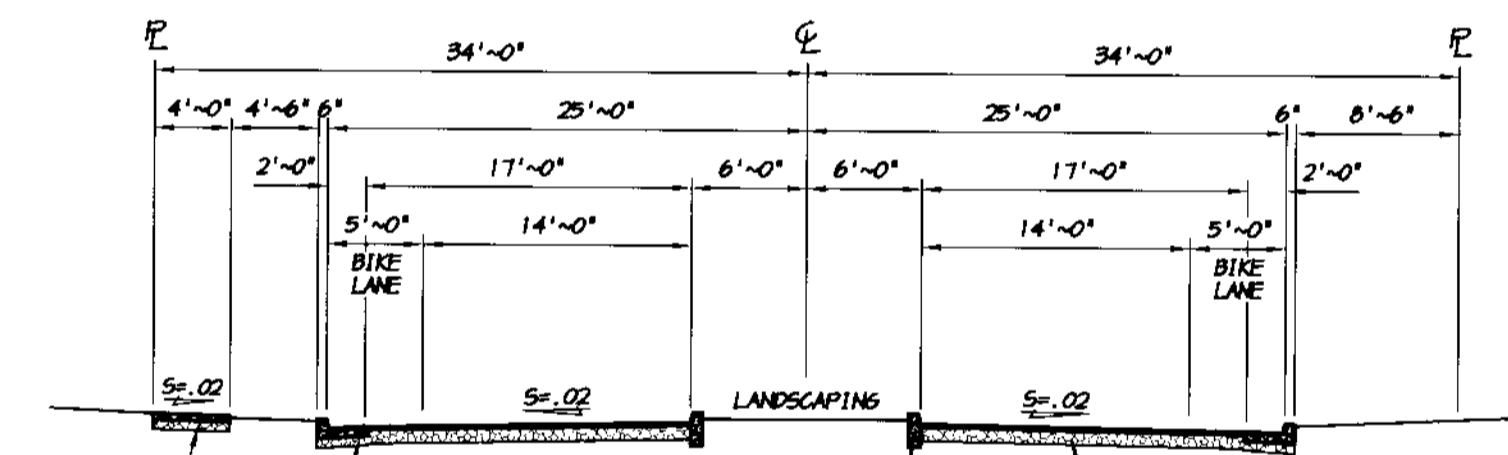
**TYPICAL 50'  
STREET SECTION**

SCALE: 1"=10'



**TYPICAL 60'  
STREET SECTION**

SCALE: 1"=10'



**TYPICAL SECTION  
BELLA LAGO WAY**

SCALE: 1"=10'

**RECORD DRAWING**

Completed by  
No. 51619  
Date: 2/12/2008  
All information in this drawing should be verified by the user of the drawing.  
All information is the property of the State of California.

**UTILITY CONTACTS**

- SANITARY SEWER ~ OAKWOOD LAKE WATER DISTRICT  
ATTN.: MIKE GILTON PH. (209) 634-6920
- DOMESTIC WATER ~ OAKWOOD LAKE WATER DISTRICT  
ATTN.: MIKE GILTON PH. (209) 634-6920
- STORM DRAINAGE ~ OAKWOOD LAKE WATER DISTRICT  
ATTN.: MIKE GILTON PH. (209) 634-6920
- ELECTRIC ~ PACIFIC GAS AND ELECTRIC COMPANY  
ATTN.: THOMAS SAMANIEGO PH. (209) 942-1793
- GAS ~ PACIFIC GAS AND ELECTRIC COMPANY  
ATTN.: THOMAS SAMANIEGO PH. (209) 942-1793
- TELEPHONE ~ VERIZON COMMUNICATIONS  
ATTN.: KATHY STROUT PH. (209) 239-0346
- CABLE TELEVISION ~ COMCAST  
ATTN.: MELANIE HERNANDEZ PH. (209) 474-1747 EXT. 238
- STREET LIGHTING ~ PACIFIC GAS AND ELECTRIC CO.  
ATTN.: THOMAS SAMANIEGO PH. (209) 942-1793

ASSOCIATED  
ENGINEERING, INC.  
Surveying • Design • Planning  
4306 TECHNOLOGY DRIVE  
MORISTO, CALIFORNIA 95156  
PH: (209) 546-3330 FAX: (209) 545-3875

TRACT NO. 3475  
**STREET SECTIONS & DETAILS**  
**OAKWOOD LAKE SUBDIVISION, UNIT 2**  
SAN JOAQUIN COUNTY CALIFORNIA

RYAN CARREL, R.C.E. 61619  
DANIEL ENGLAND, R.C.E. 49026  
DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
RYAN CARREL  
No. 51619  
Exp. 6-30-07  
CIVIL  
STATE OF CALIFORNIA

DRAWN BY: J.S.H.  
DATE: 6/14/05  
SCALE: 1"=500'  
DWG: 246-CVR1  
CHECKED: KM  
JOB #: 246E-04

SHEET  
**3**  
OF  
**45**

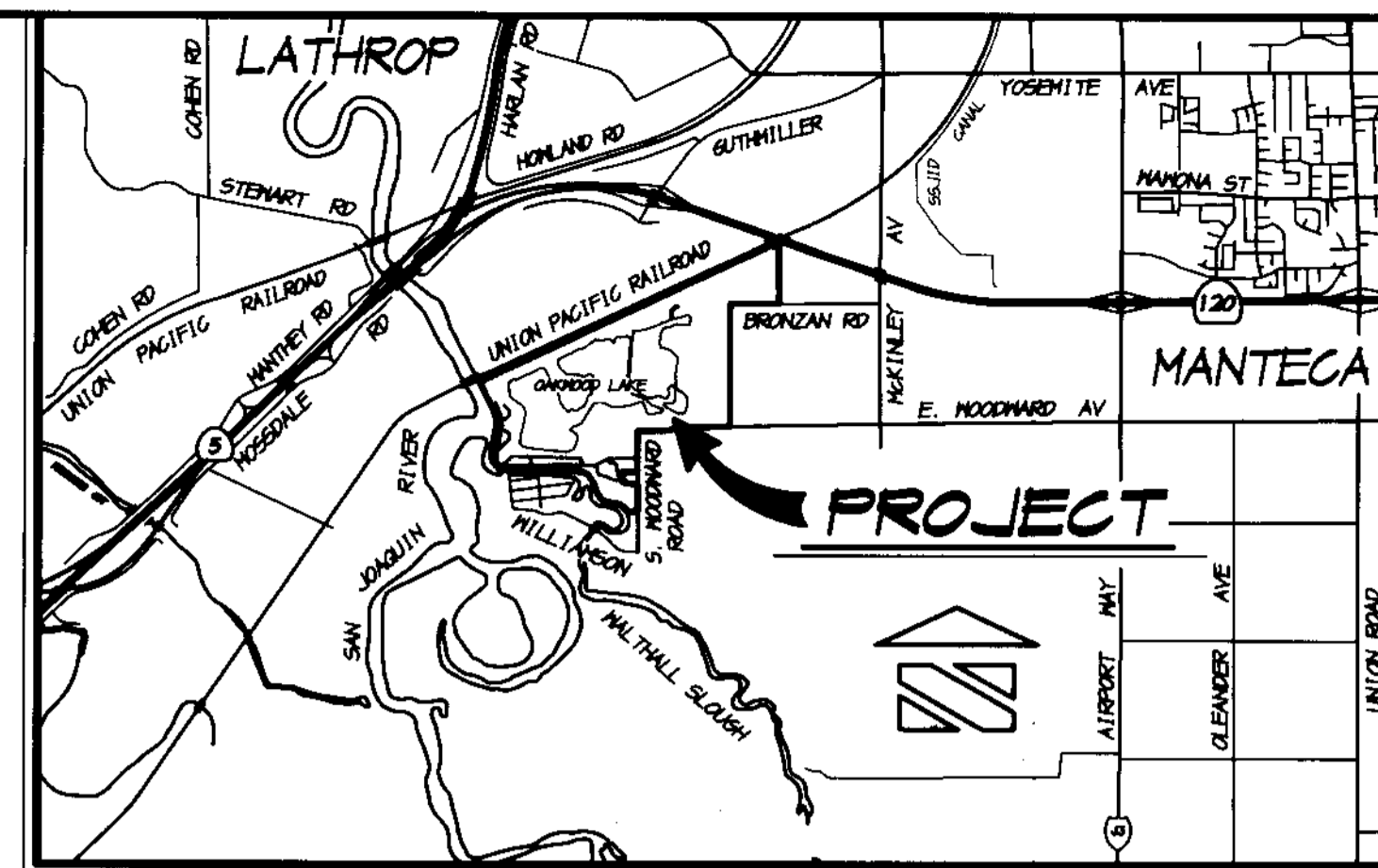


# STREET IMPROVEMENT PLANS

FOR

## OAKWOOD LAKE SUBDIVISION, UNIT 2

### TRACT NO. 3475



VICINITY MAP  
NO SCALE

SUBDIVISIONS OF SAN JOAQUIN COUNTY  
MAJOR SUBDIVISION APPLICATION NO. PA-02-98  
874 EAST WOODWARD AVENUE, MANTECA

BEING A DIVISION OF A PORTION OF SECTIONS 2 & 11,  
TOWNSHIP 2 SOUTH, RANGE 6 EAST, MOUNT DIABLO MERIDIAN

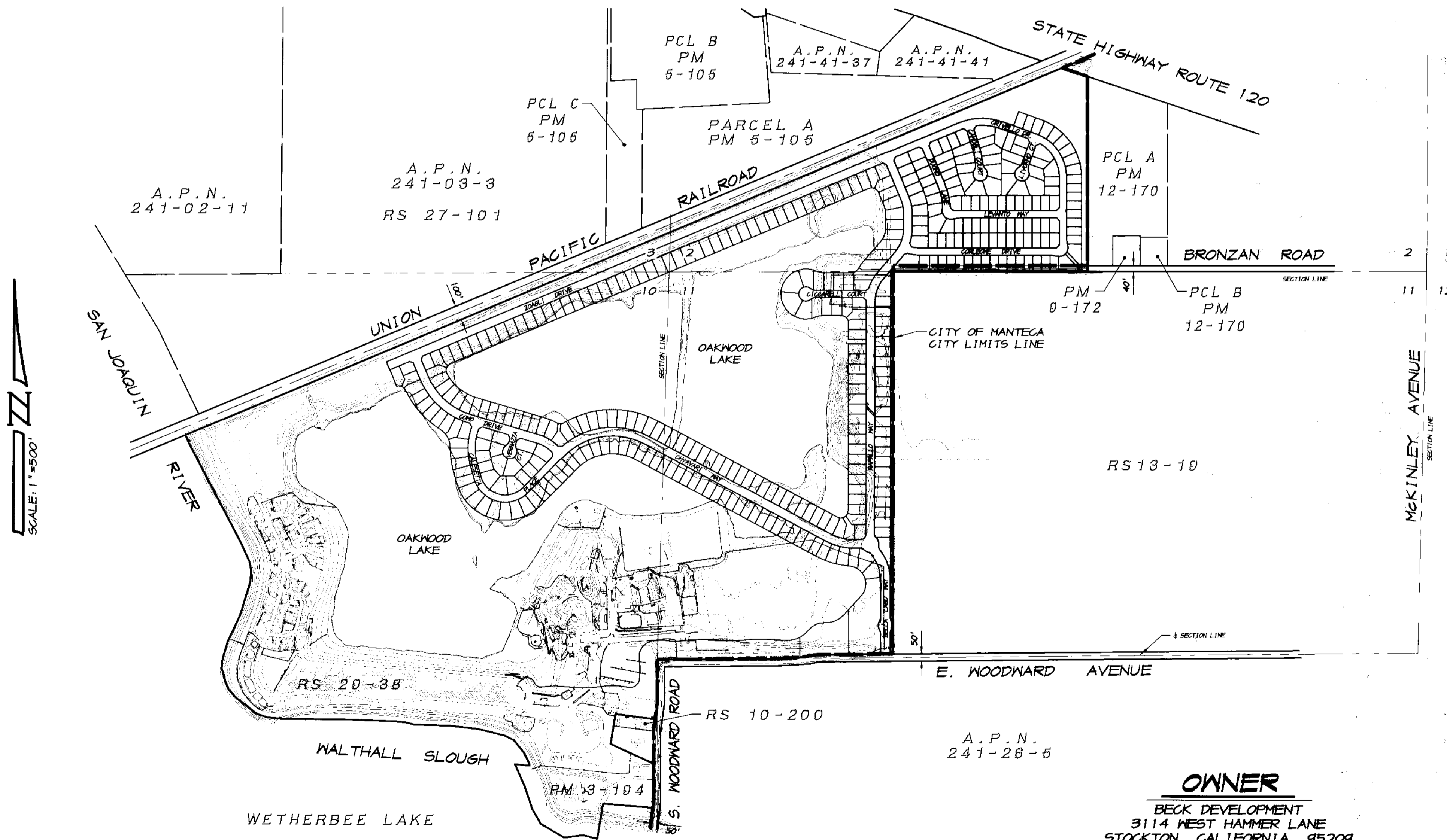
#### RECORD DRAWING

Corrected by: *PCamel*  
No Changes  
Date: 3/12/2008  
Any Portion of this drawing is void if not accompanied by the original drawing.

#### INDEX

SHEET NO.	DESCRIPTION
1	VICINITY MAP & INDEX
2	SPECIFICATIONS
3	STREET SECTIONS AND DETAILS
4 THRU 8	SANITARY SEWER & STORM DRAIN PLAN
9 THRU 13	WATER PLAN
14 THRU 18	STRIPING & SIGNAGE PLAN
19	MEDIAN LAYOUT PLAN
PLAN &	PROFILE SHEETS
20	E. WOODWARD AVENUE
21	BELLA LASO WAY
22	RAPALLO WAY, STA. 1+00 TO STA. 11+00
23	RAPALLO WAY, STA. 11+00 TO STA. 20+00
24	RAPALLO WAY, STA. 20+00 TO STA. 26+00
25	RAPALLO WAY, STA. 26+00 TO STA. 29+05.32
26	CHIAVARI WAY
27	CORLEONE DRIVE, STA. 1+00 TO STA. 6+00
28	CORLEONE DRIVE, STA. 6+00 TO STA. 12+17.29
29	CRIVELLO DRIVE, STA. 1+00 TO STA. 8+00
30	CRIVELLO DRIVE, STA. 8+00 TO STA. 14+00
31	CRIVELLO DRIVE, STA. 14+00 TO STA. 21+19.66
32	LEVANTO WAY
33	CAMOSLI COURT & LIVORNO COURT
34	DUOMO LANE
35	CICCARELLI COURT & AREA INLET
36	STORM DRAIN OUTFALL LINES
37	NORTH LAKE BOAT RAMP PLAN
38	EMERGENCY ACCESS PLAN
39	SOUTH LAKE BOAT RAMP PLAN
40 THRU 44	EROSION CONTROL PLAN
45	EROSION CONTROL DETAILS

## SAN JOAQUIN COUNTY CALIFORNIA



PROJECT LAYOUT MAP

SCALE: 1"=500'

CALL USA TOLL FREE  
800-227-2600

BEFORE PLANTING TREES, TRENCHING, DIGGING FENCE POST HOLES, BLASTING, GRADING, EXCAVATING, DRILLING, PIPE PUSHING, ETC., CALL UNDERGROUND SERVICE ALERT FOR UNDERGROUND CLEARANCE.  
USA WILL PROVIDE INFORMATION ABOUT, OR LOCATE AND MARK UNDERGROUND FACILITIES FOR YOU.

#### BENCHMARK

CITY OF MANTECA BENCHMARK NO. 71, 2" BRASS CAP LOCATED 25 FEET ± NORTH OF THE NORTHEAST CORNER OF SECTION 11, TOWNSHIP 2 SOUTH, RANGE 6 EAST, MOUNT DIABLO MERIDIAN, AT THE INTERSECTION OF MCKINLEY AVENUE AND BRONZAN ROAD.  
ELEVATION = 16.703, U.S.G.S. DATUM

#### OWNER

BECK DEVELOPMENT  
3114 WEST HAMMER LANE  
STOCKTON, CALIFORNIA 95209  
PHONE (209) 957-0331  
ATTN.: KEN FRITZ



LATHROP - MANTECA FIRE DISTRICT

BY: *James W. R.* DATE: 6-28-05  
FIRE MARSHAL

#### GEOTECHNICAL REPORT

THESE IMPROVEMENT PLANS CONFORM TO THE APPROVED GEOTECHNICAL REPORT FOR THE OAKWOOD LAKE DEVELOPMENT LOCATED IN SAN JOAQUIN COUNTY, CALIFORNIA.

APPROVED: *James W. R.* DATE: 6-28-05  
KLEINFELDER, INC.

APPROVED BY THE DISTRICT ENGINEER OF THE OAKWOOD LAKE WATER DISTRICT, MANTECA, CALIFORNIA.

DATE: 6-28-05

BY: *Michael Gilton*  
MICHAEL GILTON, R.C.E. 25853

COUNTY OF SAN JOAQUIN  
DEPARTMENT OF PUBLIC WORKS

APPROVED: *Michael Gilton* DATE: 7/15/05  
SENIOR CIVIL ENGINEER  
RCE NO. 46533 EXP. DATE: 6/30/07

APPROVED: *M. K.* DATE: 7/26/05  
DIRECTOR OF PUBLIC WORKS

ASSOCIATED ENGINEERING, INC.  
Surveying - Design - Planning  
4206 TECHNOLOGY DRIVE  
MODESTO, CALIFORNIA 95356  
PH: (209) 545-3390 FAX: (209) 545-3875



TRACT NO. 3475  
VICINITY MAP & INDEX  
OAKWOOD LAKE SUBDIVISION, UNIT 2  
SAN JOAQUIN COUNTY CALIFORNIA

*PCamel*  
RYAN CARREL, R.C.E. 61619  
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DRAWN BY: J.S.H.  
DATE: 6/14/05  
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JOB #: 246E-04

SHEET 1 OF 45

SU 3913