

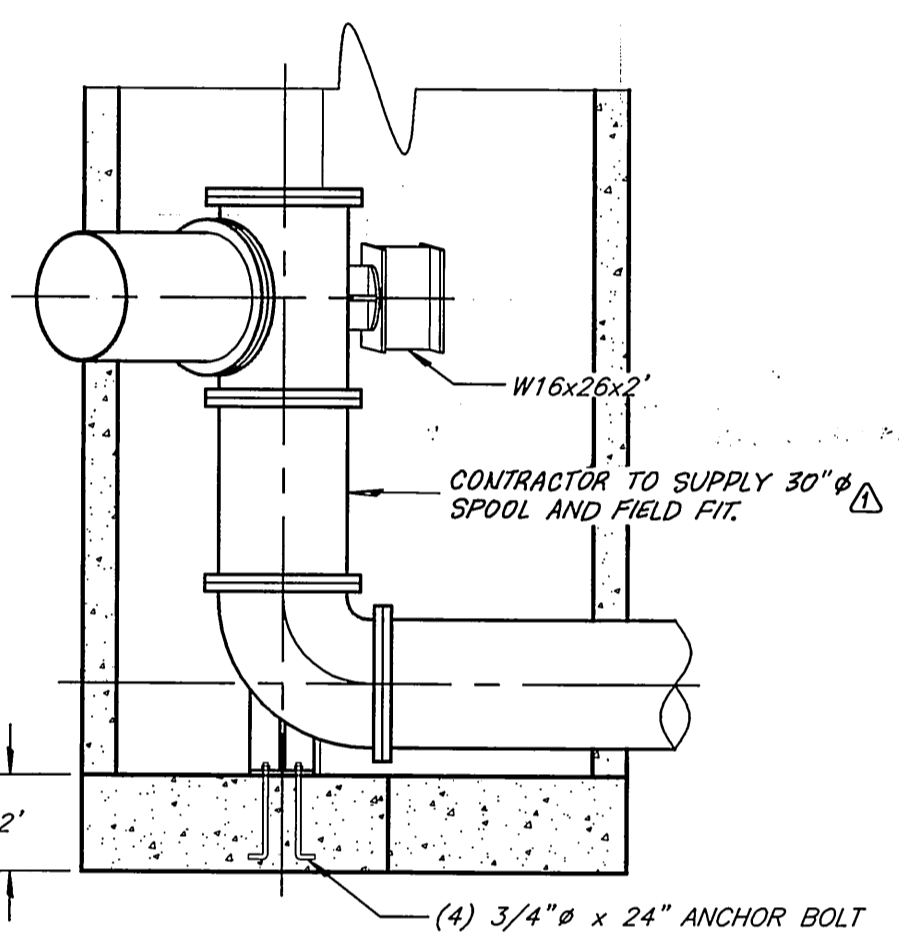
# RIVERSIDE CITY OF RIVERSIDE CALIFORNIA

## PUBLIC WORKS DEPARTMENT

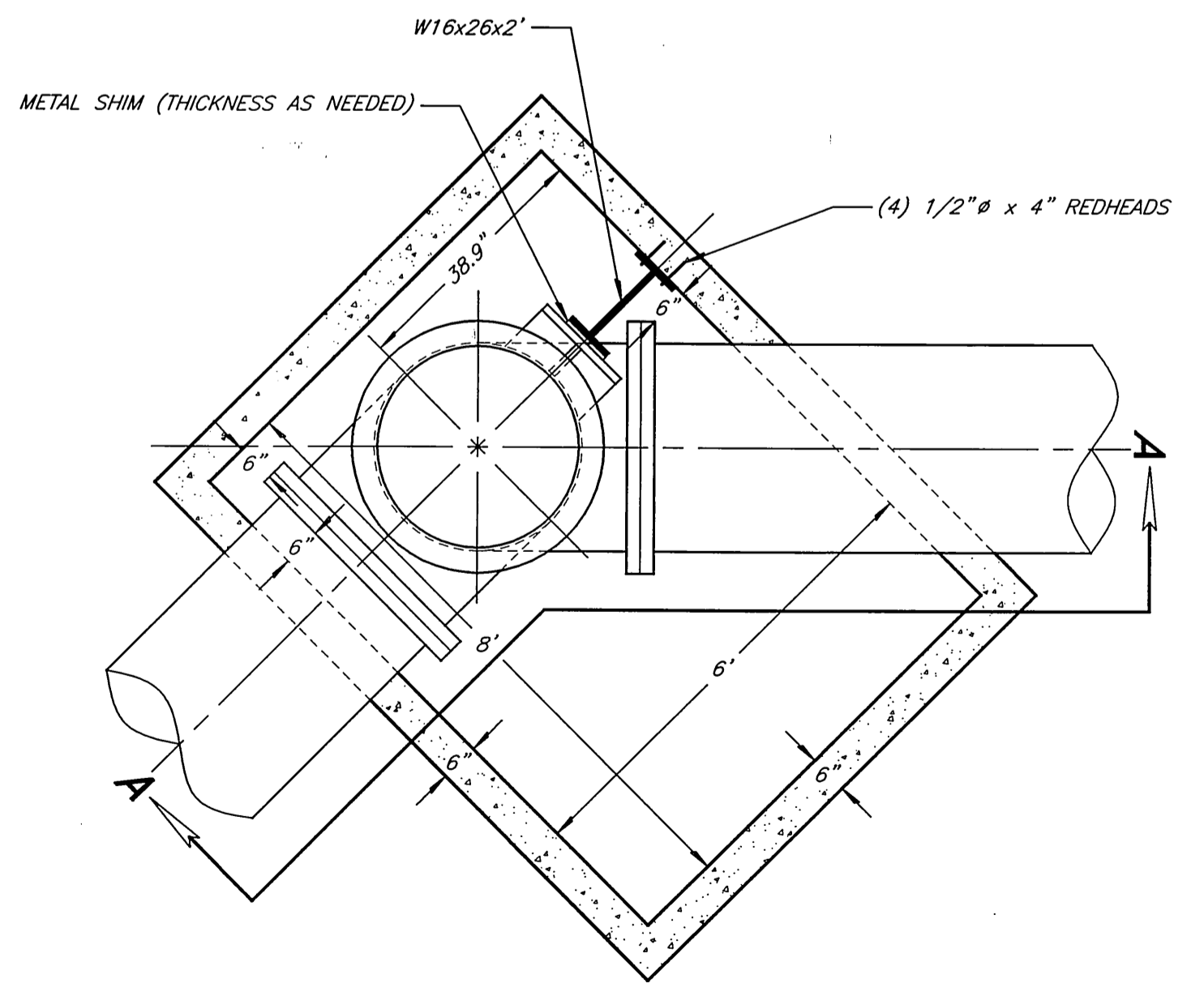
# LA SIERRA AREA SEWER FORCE MAIN PIERCE ST PUMP STATION TO LA SIERRA AVE

### CONSTRUCTION NOTES

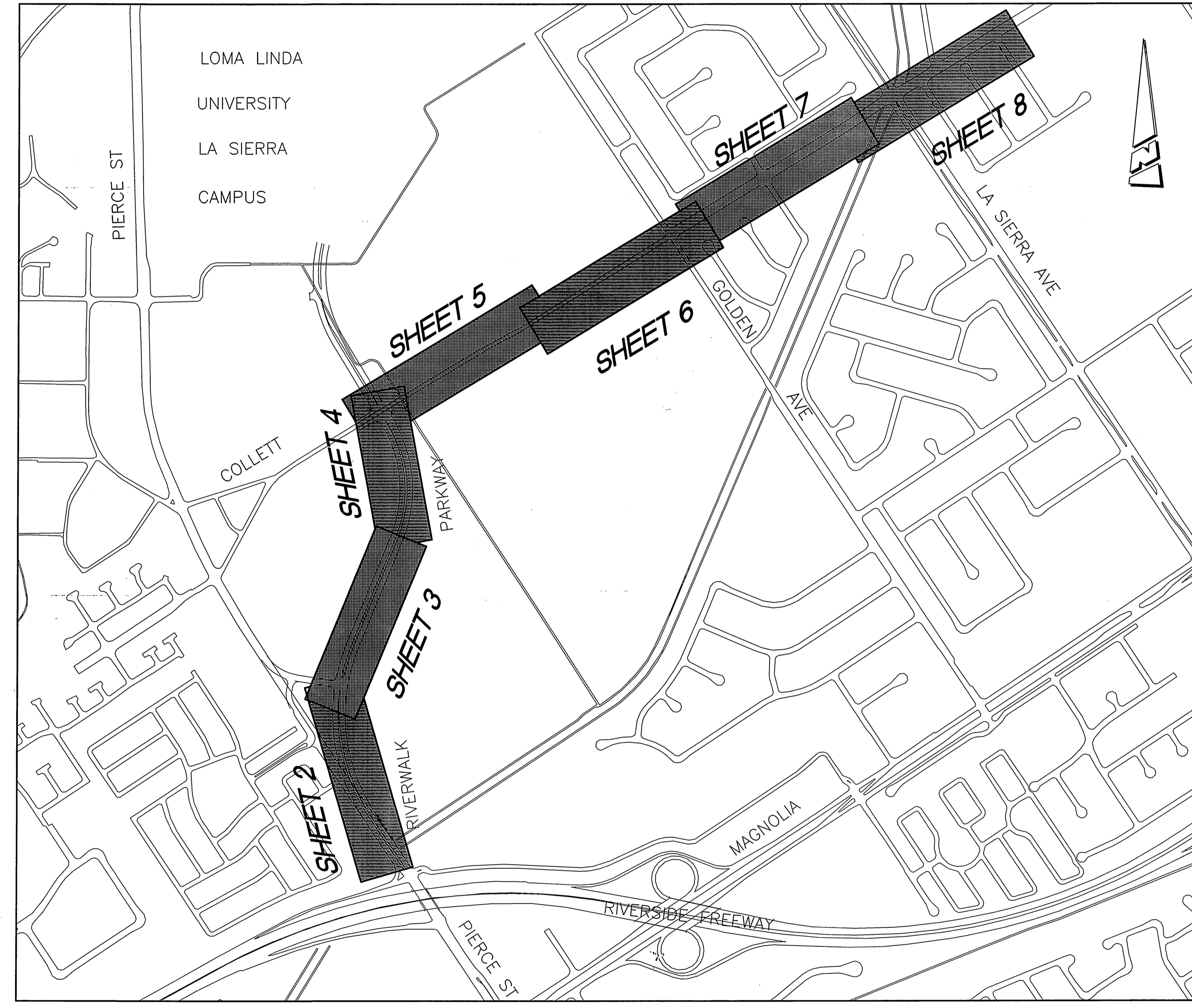
- NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY. UNLESS MODIFICATIONS ARE NOTED ON THE PLAN OR COVER SHEET. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.
- 1B CONSTRUCT PCC THRUST BLOCK PER DETAIL ON SHEET B.
- 1 INSTALL CITY SUPPLIED 30" DUCTILE IRON PIPE AND POLYETHYLENE ENCASEMENT WITH CASE 1 BEDDING.
- 2 INSTALL CITY SUPPLIED 20" DUCTILE IRON PIPE AND POLYETHYLENE ENCASEMENT WITH CASE 1 BEDDING.
- 3 INSTALL CITY SUPPLIED 30" RESTRAINED JOINT DUCTILE IRON PIPE IN 42" STEEL CASING PER STEEL CASING & SKID DETAIL SHOWN ON SHEET B.
- 4 INSTALL CITY SUPPLIED 30" RESTRAINED JOINT DUCTILE IRON PIPE AND POLYETHYLENE ENCASEMENT WITH CASE 1 BEDDING.
- 5 CONSTRUCT 6' x 8' PRECAST CONCRETE MANHOLE.
- 6 INSTALL CITY SUPPLIED 30" TO 20" ECCENTRIC REDUCER AND POLYETHYLENE ENCASEMENT WITH CASE 1 BEDDING.
- 7 INSTALL CITY SUPPLIED 30" TO 20" CONCENTRIC REDUCER AND POLYETHYLENE ENCASEMENT WITH CASE 1 BEDDING.
- 8 JACK 42" STEEL CASING WITH WELDED JOINTS.
- 9 CONTRACTOR TO SUPPLY AND WELD FLANGE ONTO EXISTING 20" STEEL FORCE MAIN.



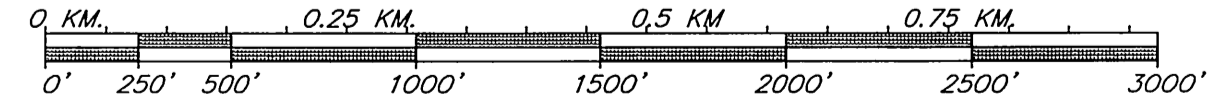
**6' x 8' MANHOLE DETAIL SECTION A-A**  
SCALE: 1" = 4'



**6' x 8' MANHOLE DETAIL PLAN VIEW**  
SCALE: 1" = 2'



**PROJECT LOCATION PLAN**



SCALE: 1" = 500'

### GENERAL CONSTRUCTION NOTES

- 1 EXISTING UTILITIES SHOWN ON THIS PLAN ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN. IF THE COVER OF A UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. UTILITIES SHOWN IN THE PROFILE AS INDICATES THAT THE COVER IS UNKNOWN, BUT THE UTILITY IS NOT EXPECTED TO CONFLICT WITH THE PROPOSED IMPROVEMENTS.
- 2 ALL ELEVATIONS SHOWN ON THE PLANS SHALL BE STAKED IN THE FIELD.
- 3 ANY WORK THAT WILL CAUSE DAMAGE TO THE DETECTOR LOOPS SHALL NOT BE PERFORMED UNTIL TRAFFIC SIGNAL MAINTENANCE PERSONNEL HAVE BEEN NOTIFIED AND THE NECESSARY TIMING ADJUSTMENTS ARE MADE TO MAINTAIN SIGNAL OPERATION.
- 4 CONFLICTING UTILITIES SHOWN WITHIN CONSTRUCTION AREA WILL BE RELOCATED PRIOR TO CONSTRUCTION.
- 5 TEMPORARY CONSTRUCTION EASEMENTS HAVE BEEN OBTAINED FOR WORK SHOWN OUTSIDE OF CITY RIGHT OF WAY.
- 6 ALL PERMANENT PAVEMENT DELINEATION WILL BE PERFORMED BY CITY FORCES.
- 7 JACKING PITS SHALL HAVE K-RAILING INSTALLED ALONG THE PERIMETER OF THE PIT PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL SUBMIT A K-RAIL LAYOUT PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO THE PLACEMENT OF THE RAILING.
- 8 TRENCHES LOCATED WITHIN THE PAVED TRAVELED WAY OR WITHIN 100' OF THE TRAFFIC, SHALL BE EITHER BACKFILLED OR COVERED WITH TRAFFIC RATED STEEL PLATES AT THE END OF EACH WORK DAY. THE CONTRACTOR MAY, AT HIS OPTION, INSTALL K-RAILING AS AN ALTERNATE TRENCH PROTECTION SYSTEM IN LIEU OF STEEL PLATING OR BACKFILLING.

### EXISTING UNDERGROUND AND TOPOGRAPHY LEGEND

#### EXISTING UNDERGROUND UTILITIES:

SANITARY SEWER	8" S	TELEPHONE CONDUIT	T
WATER LINE	6" W	ELECTRICAL CONDUIT	E
STORM DRAIN	24" SD	ELECTROLIGHT CONDUIT	ELC
GAS LINE	3" G	TRAFFIC SIGNAL	SIG
ABANDONED UTILITY	6" (ABAND.)	FIRE ALARM	F

#### EXISTING TOPOGRAPHY:

BLOCK WALL	TOP OF SLOPE
BOARD FENCE	TOE OF SLOPE
WIRE FENCE	DIRECTION OF FLOW
CHAIN LINK FENCE	

SANITARY SEWER M.H.	POLE & GUY ANCHOR	RAILROAD TRACKS
SANITARY SEWER CLEANOUT	TELEPHONE POLE	RAILROAD SIGNAL
STORM DRAIN M.H.	TELEPHONE RISER	RAILROAD SIGNAL ON MAST ARM
IRRIGATION WEIR	JOINT USE POLE	TRAFFIC SIGNAL
WATER M.H.	GAS M.H.	TRAFFIC SIGNAL ON MAST ARM
GAS M.H.	ELECTRIC M.H.	TRAFFIC SIGNAL CONTROLLER
ELECTRIC M.H.	PARKING METER	TRAFFIC SIGNAL PRESSURE DETECTOR
TELEPHONE M.H.	FIRE ALARM BOX	TRAFFIC SIGNAL LOOP DETECTOR
WATER METER	STREET NAME SIGN	STREET LIGHT & TRAFFIC SIGNAL ON MAST ARM
FIRE HYDRANT	GAS METER	STREET LIGHT (UPRIGHT)
SPRINKLER HEAD	MAIL BOX	STREET LIGHT ON MAST ARM
VALVE	FAUCET	STEEL POST
AIR VALVE	WALK-DON'T WALK PEDESTRIAN SIGNAL	WOOD POST
BUS STOP SIGN	ELECTROLYSIS TEST STATION	
BLOW-OFF VALVE	WHEEL STOP	
IRRIGATION STAND PIPE	A.C. BERM	

#### CONSTRUCTION LEGEND

CENTER LINE	TOP OF SLOPE
RIGHT-OF-WAY	TOE OF SLOPE
SUBDIVISION LOT LINE	DIRECTION OF FLOW

#### STATION INDEX

SEWER STA. 9+39 TO 19+32	2
SEWER STA. 19+32 TO 31+44	3
SEWER STA. 31+44 TO 40+36	4
SEWER STA. 40+36 TO 52+05	5
SEWER STA. 52+05 TO 64+05	6
SEWER STA. 64+05 TO 76+05	7
SEWER STA. 76+05 TO 80+47	8

#### SHEET

2
3
4
5
6
7
8

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**ENGINEER IN RESPONSIBLE CHARGE**  
*Lauren F. Caldwell*  
LAUREN F. CALDWELL  
R.C.E. No. 35441 expires 12/31/2001  
DATE 8/15/2000

REGISTERED PROFESSIONAL ENGINEER  
LAUREN F. CALDWELL  
No. 39441  
Exp. 12-31-2001  
CIVIL  
STATE OF CALIFORNIA

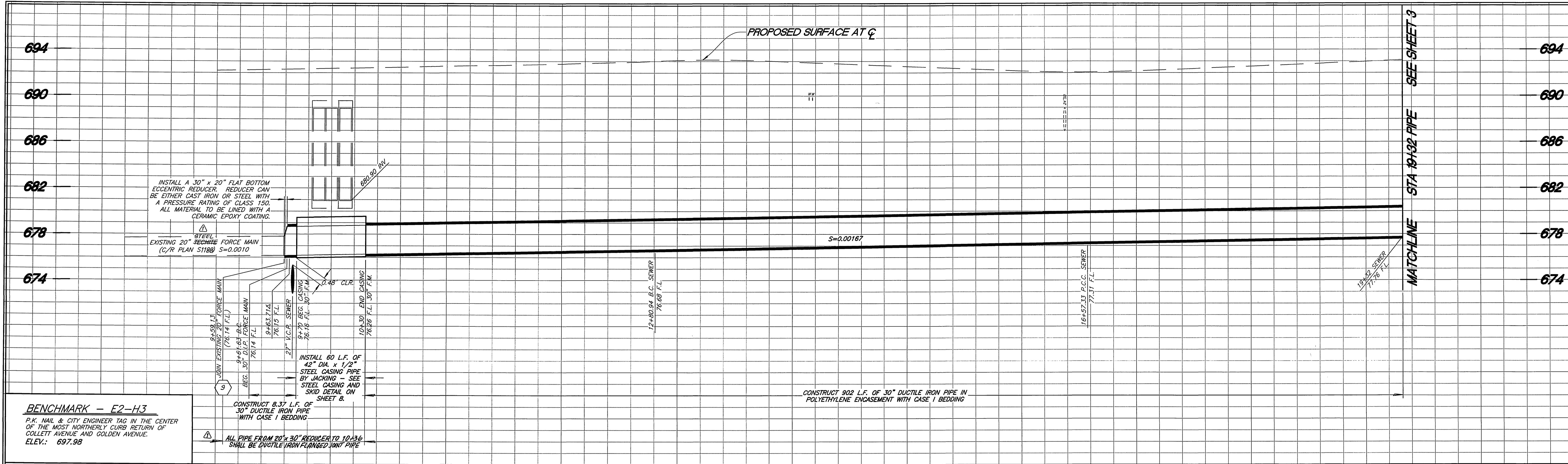
DESIGNED BY KARL DRAWN BY CS/DB CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA  
PUBLIC WORKS DEPARTMENT  
APPROVED BY *Richard De la Cruz*  
RICHARD DE LA CRUZ  
PUBLIC WORKS DIRECTOR  
DATE 8-17-00

**LA SIERRA AREA SEWER FORCE MAIN**  
**PIERCE STREET PUMP STATION TO LA SIERRA AVE**

ACCT. NO. 9711723203 440301XX  
**S-1678**  
SHEET 1 OF 8

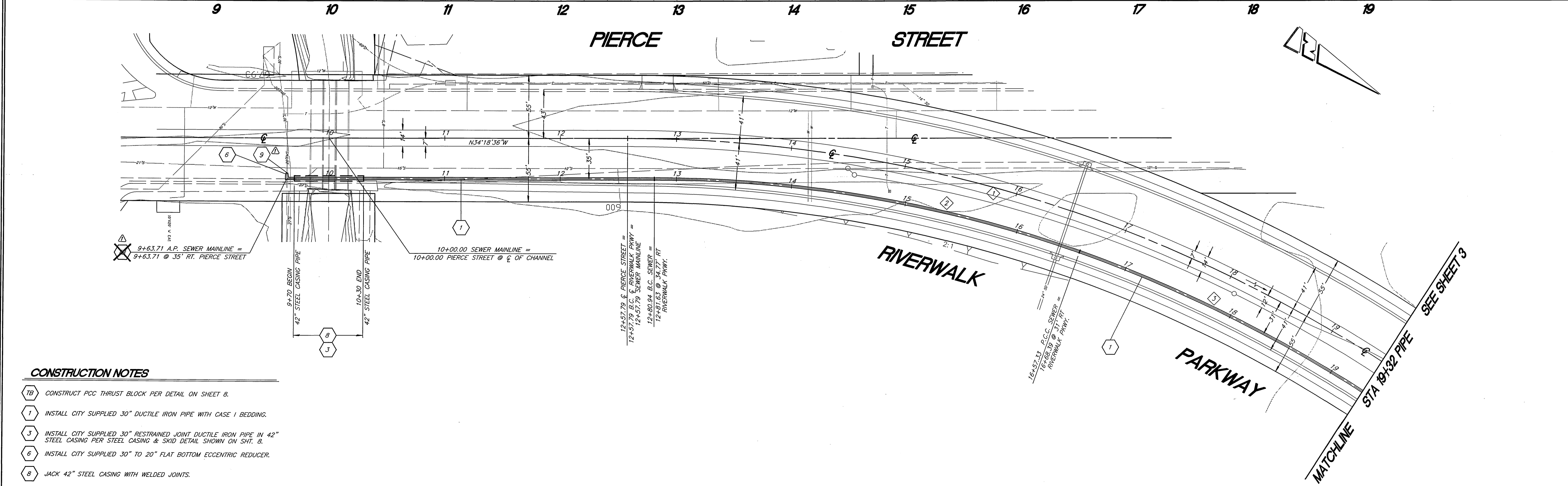
INDEXED 9-12-2000 gth



**BENCHMARK - E2-H3**  
 P.K. NAIL & CITY ENGINEER TAG IN THE CENTER OF THE MOST NORTHERLY CURB RETURN OF COLLETT AVENUE AND GOLDEN AVENUE.  
 ELEV.: 697.98

INSTALL 60 L.F. OF 42" DIA. x 1/2" STEEL CASING PIPE BY JACKING - SEE STEEL CASING AND SKID DETAIL ON SHEET B.  
 CONSTRUCT 8.37 L.F. OF 30" DUCTILE IRON PIPE WITH CASE 1 BEDDING.  
 ALL PIPE FROM 20" x 30" REDUCER TO 10+36 SHALL BE DUCTILE IRON FLANGED JOINT PIPE.

CONSTRUCT 902 L.F. OF 30" DUCTILE IRON PIPE IN POLYETHYLENE ENCASEMENT WITH CASE 1 BEDDING



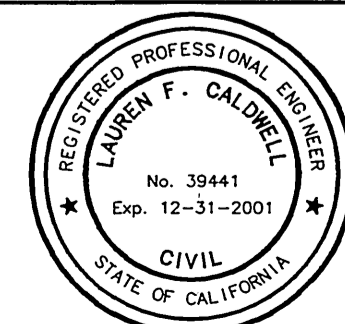
- CONSTRUCTION NOTES**
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**CURVE DATA**

Δ	R	Δ	L	T
1	1200.00'	55°56'12"	1171.53'	637.20'
2	1100.00'	19°36'18"	376.39'	190.05'
3	1169.00'	36°19'55"	741.27'	383.58'

**ENGINEER IN RESPONSIBLE CHARGE**  
 LAUREN F. CALDWELL  
 R.C.E. No. 39441 expires 12/31/2001  
 DATE 8/15/2000



DESIGNED BY KARL DRAWN BY CO/DO CHECKED BY

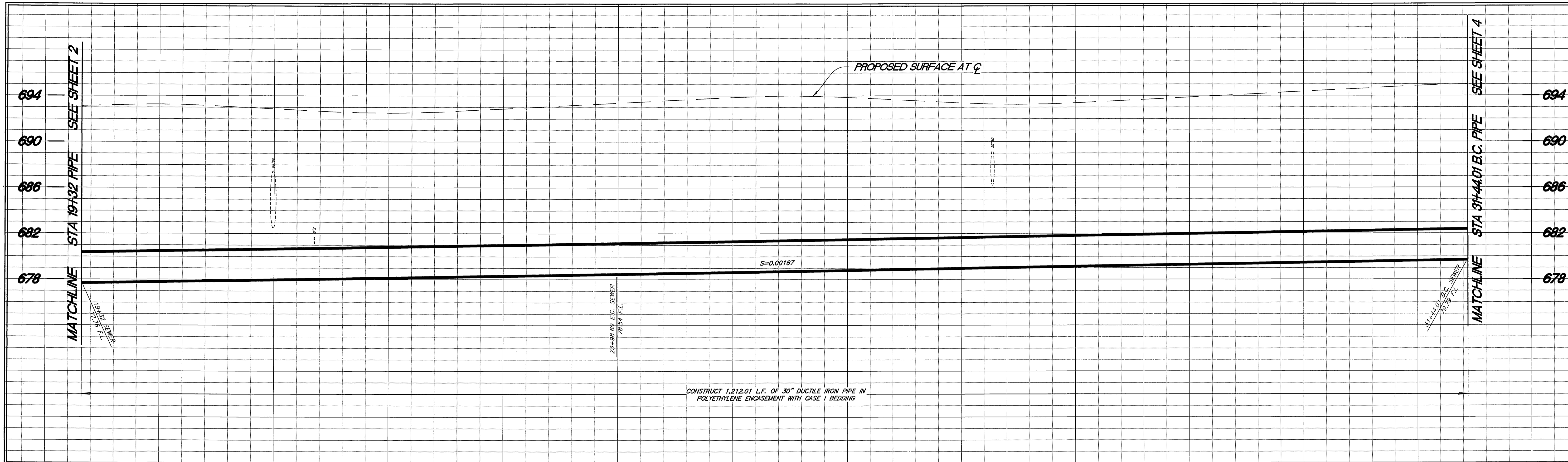
CITY OF RIVERSIDE, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature] DATE: 8/17/00  
 DEPUTY P.W. DIRECTOR  
 APPROVED BY: [Signature] DATE: 8/17/00  
 PUBLIC WORKS DIRECTOR

**LA SIERRA AREA SEWER FORCE MAIN**  
 PIERCE STREET PUMP STATION TO LA SIERRA AVE

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

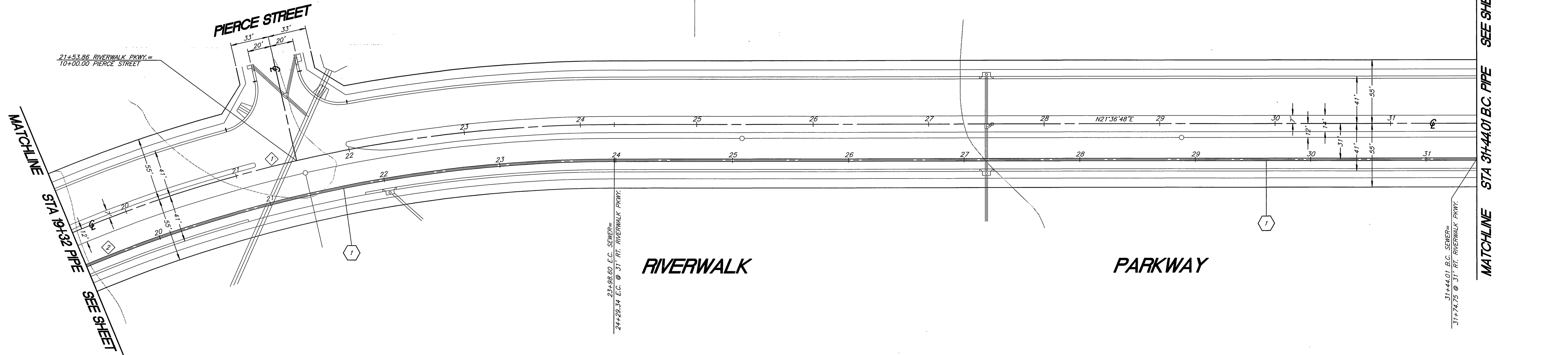
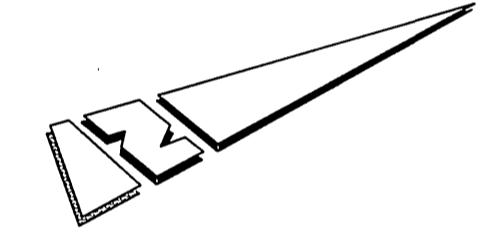
ACCT. NO. 9711723203 440301XX  
**S-1678**  
 SHEET 2 OF 8



BENCHMARK - E2-H3 20 21 22 23 24 25 26 27 28 29 30 31

P.K. NAIL & CITY ENGINEER TAG IN THE CENTER OF THE MOST NORTHERLY CURB RETURN OF COLLETT AVENUE AND GOLDEN AVENUE. ELEV.: 697.98

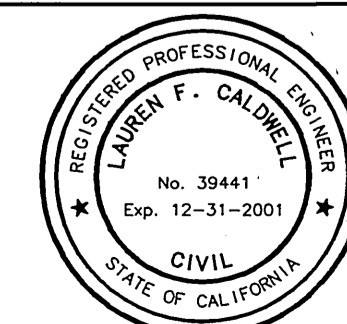
**CONSTRUCTION NOTES**  
 1 INSTALL CITY SUPPLIED 30" DUCTILE IRON PIPE WITH CASE 1 BEDDING.



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CURVE DATA				
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 LAUREN F. CALDWELL  
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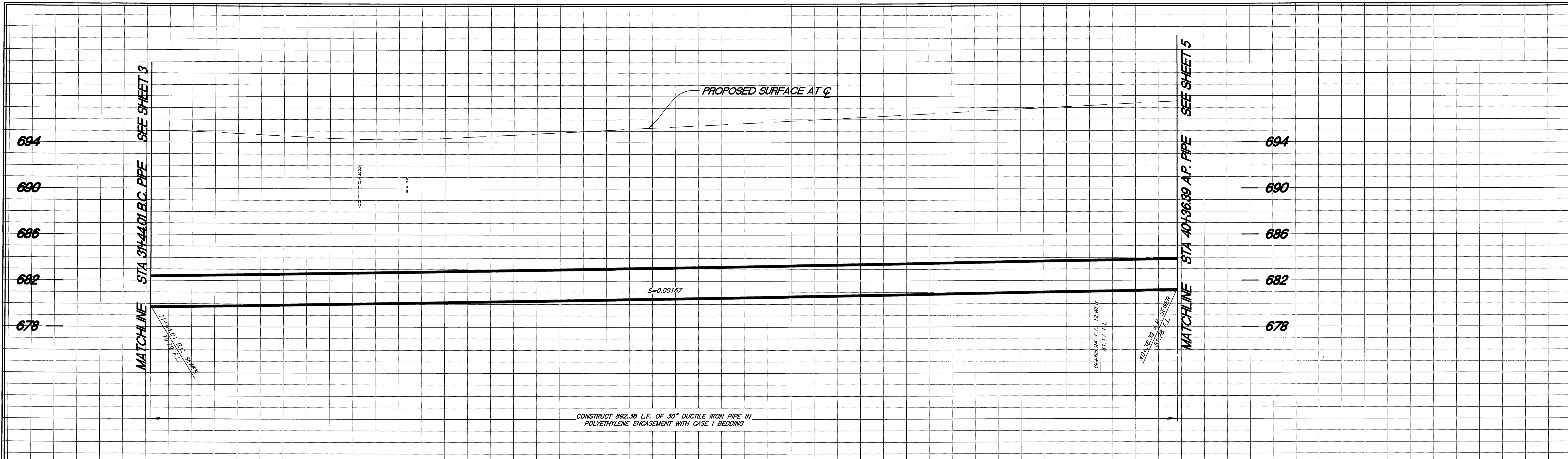


DESIGNED BY: KARL  
 DRAWN BY: C.S./D.S.  
 CHECKED BY:

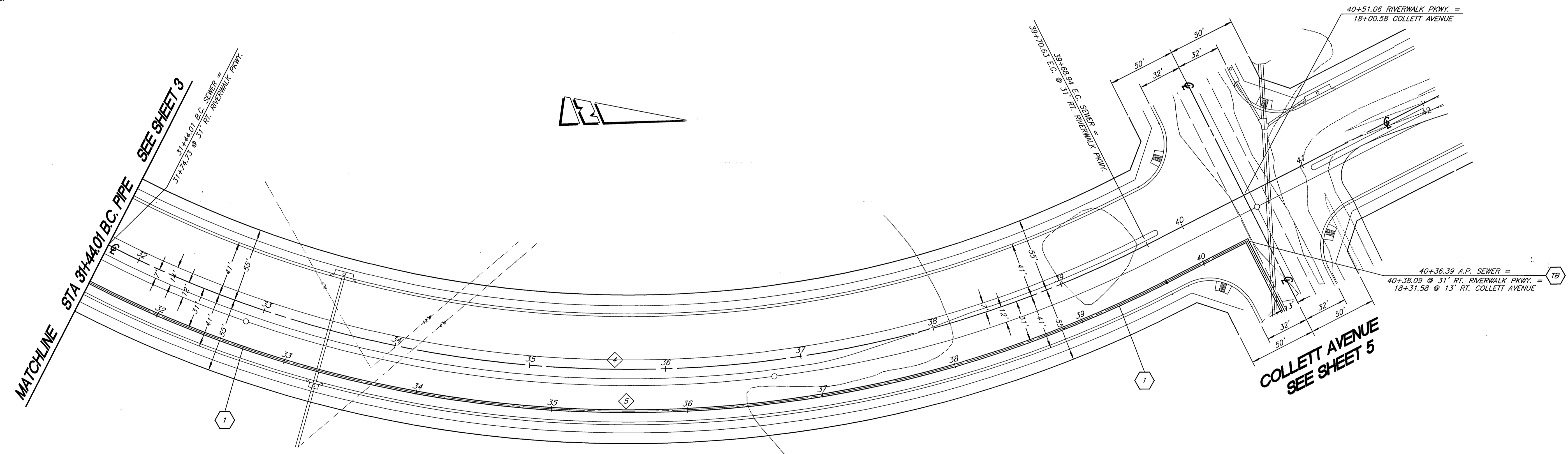
CITY OF RIVERSIDE, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT  
 APPROVED BY: [Signature]  
 DEPUTY P.W. DIRECTOR  
 PRINCIPAL ENGINEER  
 STREET SERVICES  
 SURVEYOR  
 TRAFFIC DIVISION  
 PARKS DEPARTMENT  
 DATE 8-17-00

**LA SIERRA AREA SEWER FORCE MAIN**  
 PIERCE STREET PUMP STATION TO LA SIERRA AVE  
 HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

ACCT. NO. 9711723203 440301XX  
**S-1678**  
 SHEET 3 OF 8



**BENCHMARK - E2-H3**  
 P.K. NAIL & CITY ENGINEER TAG IN THE CENTER  
 OF THE MOST NORTHERLY CURB RETURN OF  
 COLLETT AVENUE AND GOLDEN AVENUE.  
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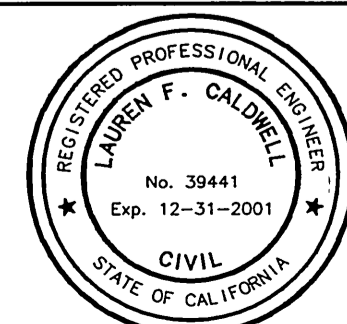
**CONSTRUCTION NOTES**

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**CALL TOLL FREE**  
**48 HOURS BEFORE YOU DIG**  
**UNDERGROUND SERVICE ALERT**  
**1-800-227-2600**

CURVE DATA				
Δ	R	Δ	L	T
4	850.00'	53°38'58"	795.91'	429.83'
5	881.00'	53°38'58"	824.93'	445.50'

**ENGINEER IN RESPONSIBLE CHARGE**  
*Lauren F. Caldwell*  
**LAUREN F. CALDWELL**  
 R.C.E. No. 39441 expires 12/31/2001  
 DATE 8/15/00



MARK	REVISIONS	APPR.	DATE

DESIGNED BY KARL DRAWN BY CS/DS CHECKED BY  

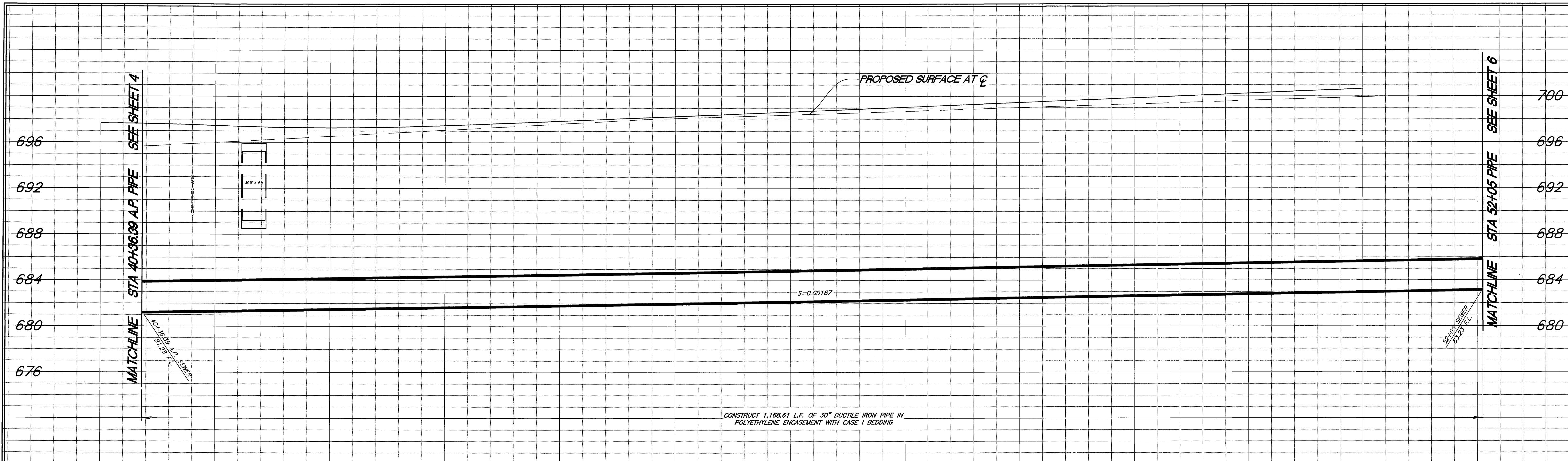
**CITY OF RIVERSIDE, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT**

APPROVED BY	BY	DATE
DEPUTY P.W. DIRECTOR	<i>[Signature]</i>	8/17/00
PRINCIPAL ENGINEER	<i>[Signature]</i>	8/17/00
STREET SERVICES	<i>[Signature]</i>	8/17/00
SURVEYOR	<i>[Signature]</i>	8/17/00
TRAFFIC DIVISION	<i>[Signature]</i>	8/17/00
PARKS DEPARTMENT	<i>[Signature]</i>	8/17/00

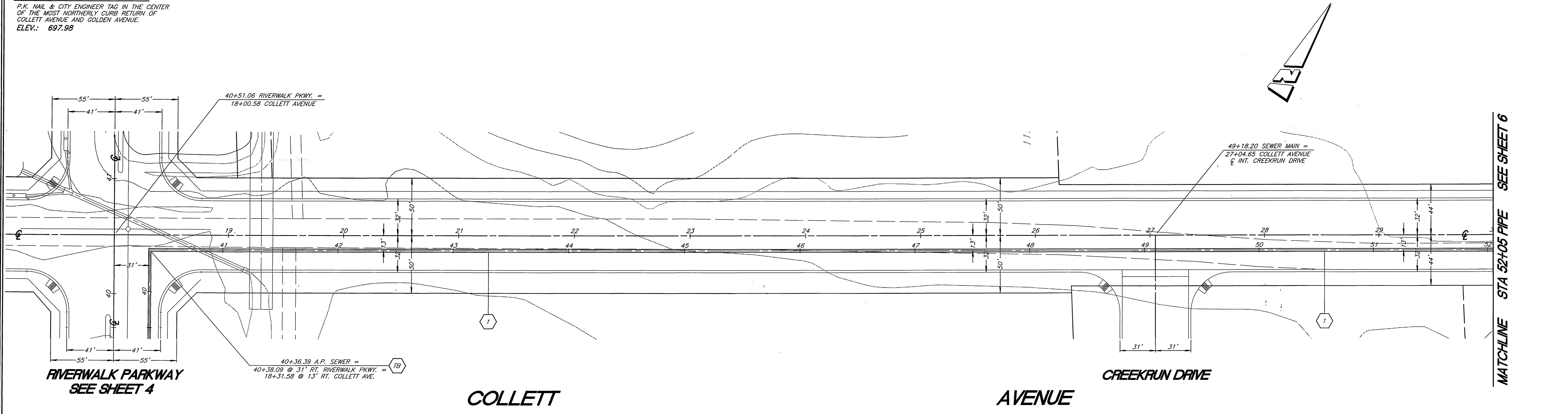
**LA SIERRA AREA  
 SEWER FORCE MAIN  
 PIERCE STREET PUMP STATION  
 TO LA SIERRA AVE**

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

ACCT. NO. 9711723203 440301XX  
**S-1678**  
 SHEET 4 OF 8



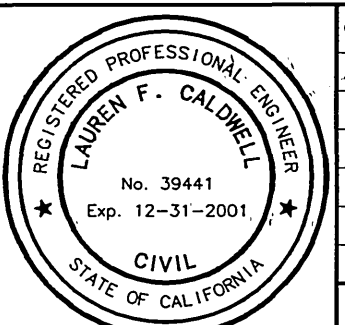
BENCHMARK - E2-H3  
 P.K. NAIL & CITY ENGINEER TAG IN THE CENTER  
 OF THE MOST NORTHERLY CURB RETURN OF  
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 ELEV.: 697.98



- CONSTRUCTION NOTES**
- 1B CONSTRUCT PCC THRUST BLOCK PER DETAIL ON SHEET 8.
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 Lauren F. Caldwell  
 R.C.E. No. 39441 expires 12/31/2001  
 DATE 8/15/2000



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
DEPUTY P.W. DIRECTOR	<i>[Signature]</i>	8/16/00
PRINCIPAL ENGINEER	<i>[Signature]</i>	8/16/00
STREET SERVICES	<i>[Signature]</i>	8/16/00
SURVEYOR	<i>[Signature]</i>	8-16-00
TRAFFIC DIVISION	<i>[Signature]</i>	8-16-00
PARKS DEPARTMENT	<i>[Signature]</i>	8-16-00

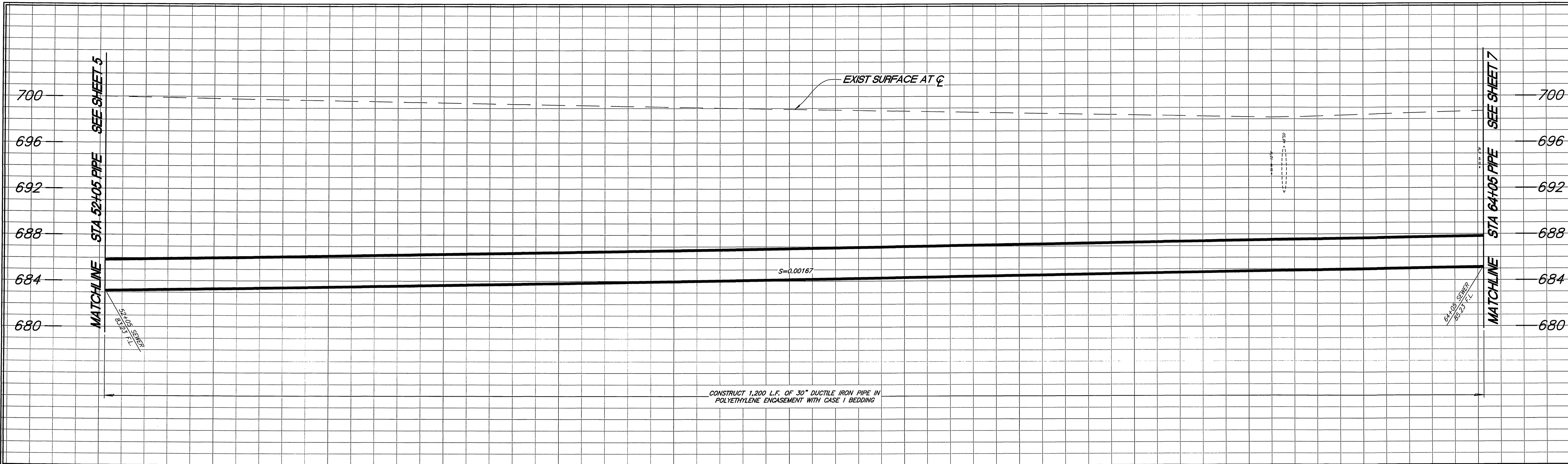
DESIGNED BY: KARL DRAWN BY: C.S./D.S. CHECKED BY: *[Signature]*

**LA SIERRA AREA SEWER FORCE MAIN**  
 PIERCE STREET PUMP STATION TO LA SIERRA AVE

HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

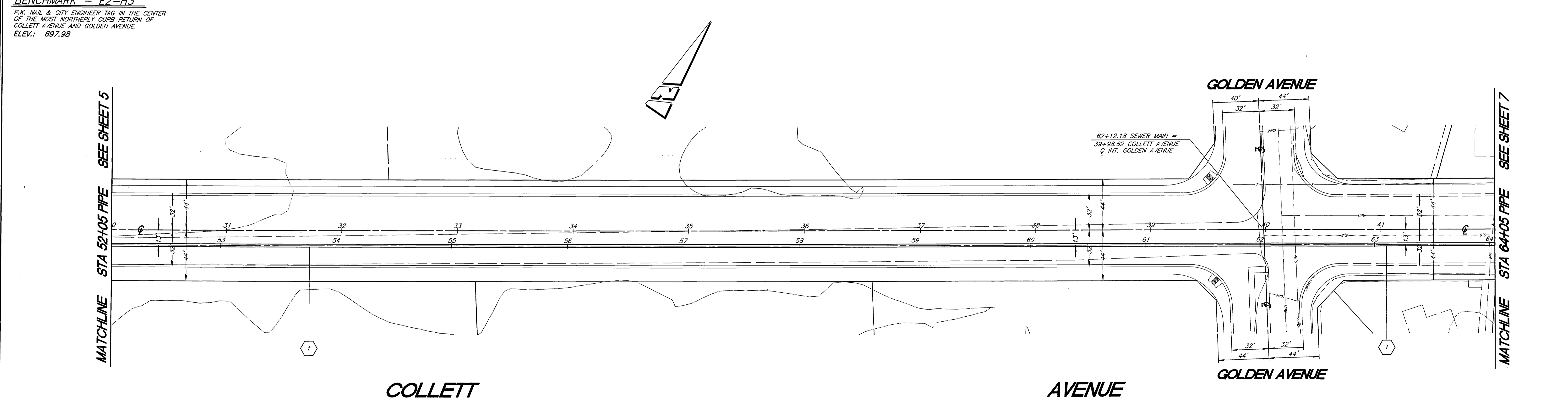
ACCT. NO. 9711723203 440301XX  
**S-1678**  
 SHEET 5 OF 8

INDEXED 9-12-2000 L/H



52 53 54 55 56 57 58 59 60 61 62 63 64

BENCHMARK - E2-H3  
 P.K. NAIL & CITY ENGINEER TAG IN THE CENTER  
 OF THE MOST NORTHERLY CURB RETURN OF  
 COLLETT AVENUE AND GOLDEN AVENUE.  
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**CONSTRUCTION NOTES**  
 1. INSTALL CITY SUPPLIED 30" DUCTILE IRON PIPE WITH CASE 1 BEDDING.

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**ENGINEER IN RESPONSIBLE CHARGE**  
 Lauren F. Caldwell  
 LAUREN F. CALDWELL  
 R.C.E. No. 39441 expires 12/31/2001  
 DATE 9/16/00



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
DEPUTY P.W. DIRECTOR	775	8/17/00
PRINCIPAL ENGINEER	CS/DS	8/16/00
STREET SERVICES		
SURVEYOR		
TRAFFIC DIVISION		
PARKS DEPARTMENT		

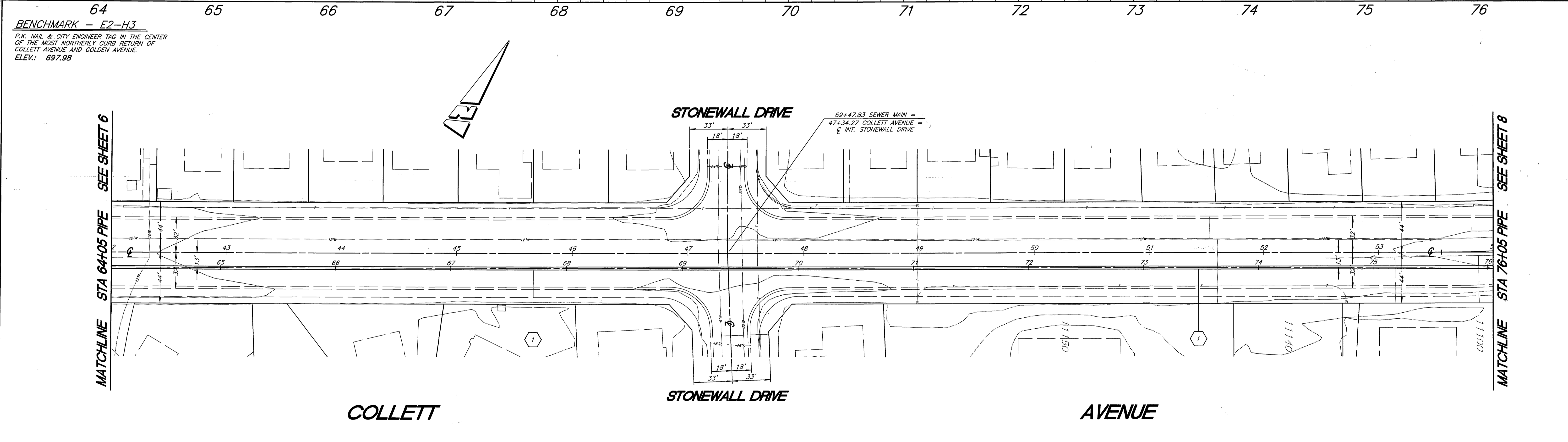
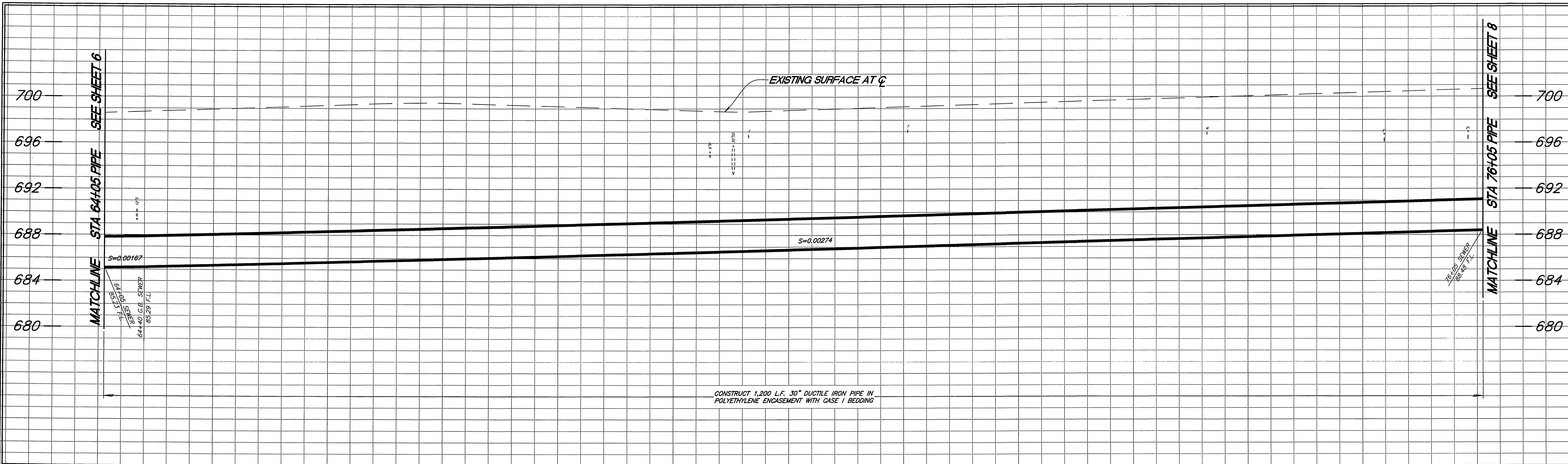
DESIGNED BY KARL DRAWN BY CS/DS CHECKED BY

LA SIERRA AREA  
 SEWER FORCE MAIN  
 PIERCE STREET PUMP STATION  
 TO LA SIERRA AVE

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ACCT. NO. 9711723203 440301XX  
**S-1678**  
 SHEET 6 OF 8

INDEXED 9-18-2000 lph

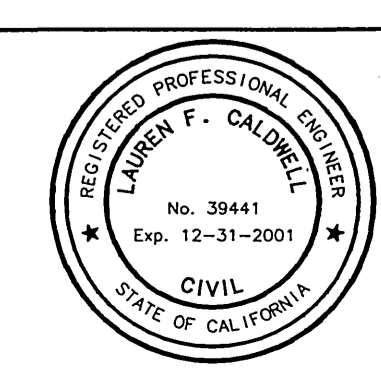


**CONSTRUCTION NOTES**

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**ENGINEER IN RESPONSIBLE CHARGE**  
 Lauren F. Caldwell  
 R.C.E. No. 39441 expires 12/31/2001  
 DATE 8/14/00



MARK	REVISIONS	APPR.	DATE

DESIGNED BY: KARL DRAWN BY: CS/DS CHECKED BY: [Signature]

CITY OF RIVERSIDE, CALIFORNIA  
 PUBLIC WORKS DEPARTMENT

APPROVED BY:	BY:	DATE:	APPROVED BY:
DEPUTY P.W. DIRECTOR	RLS	8/16/00	Richard McEnith
PRINCIPAL ENGINEER	CS	8/17/00	PUBLIC WORKS DIRECTOR
STREET SERVICES			
SURVEYOR			
TRAFFIC DIVISION			
PARKS DEPARTMENT			

DATE 8-17-00

**LA SIERRA AREA SEWER FORCE MAIN**  
 PIERCE STREET PUMP STATION TO LA SIERRA AVE

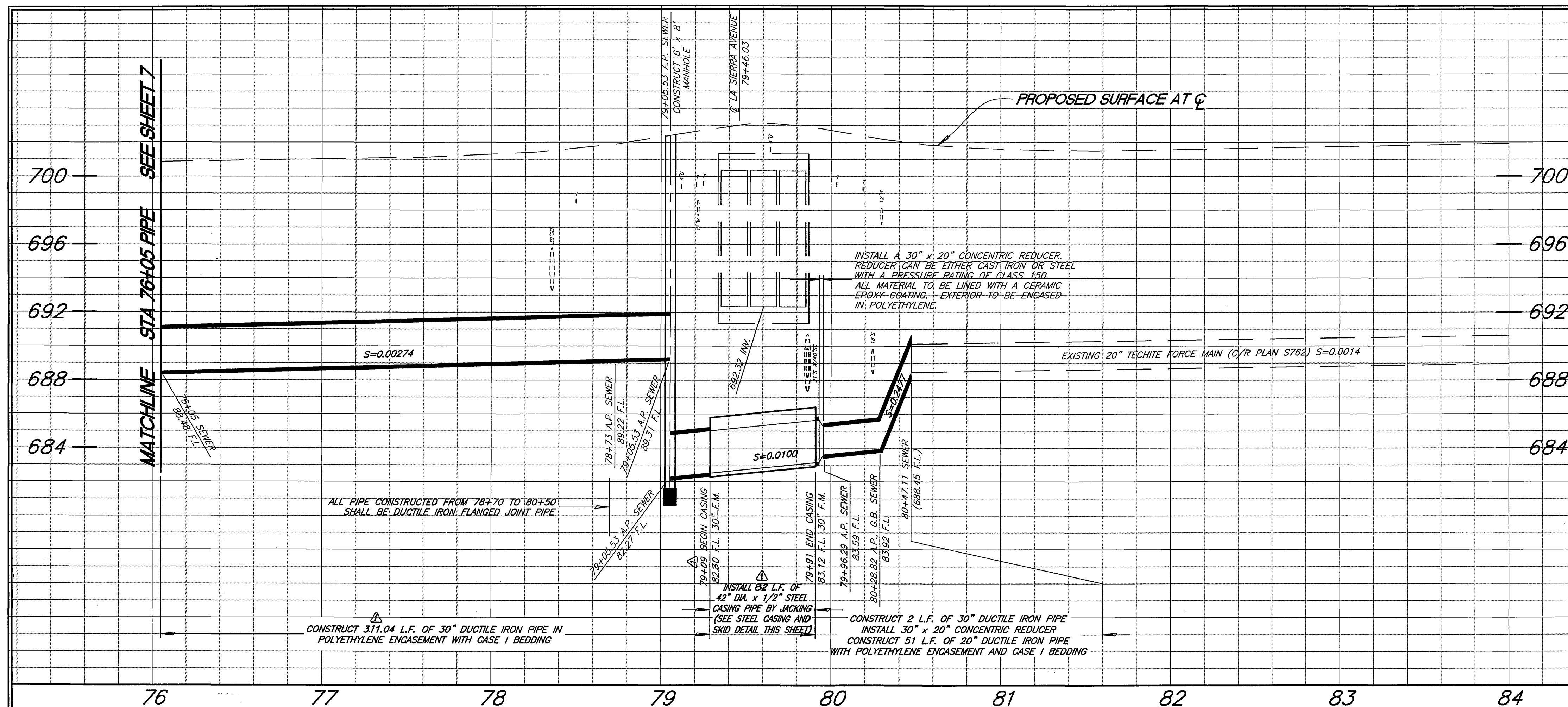
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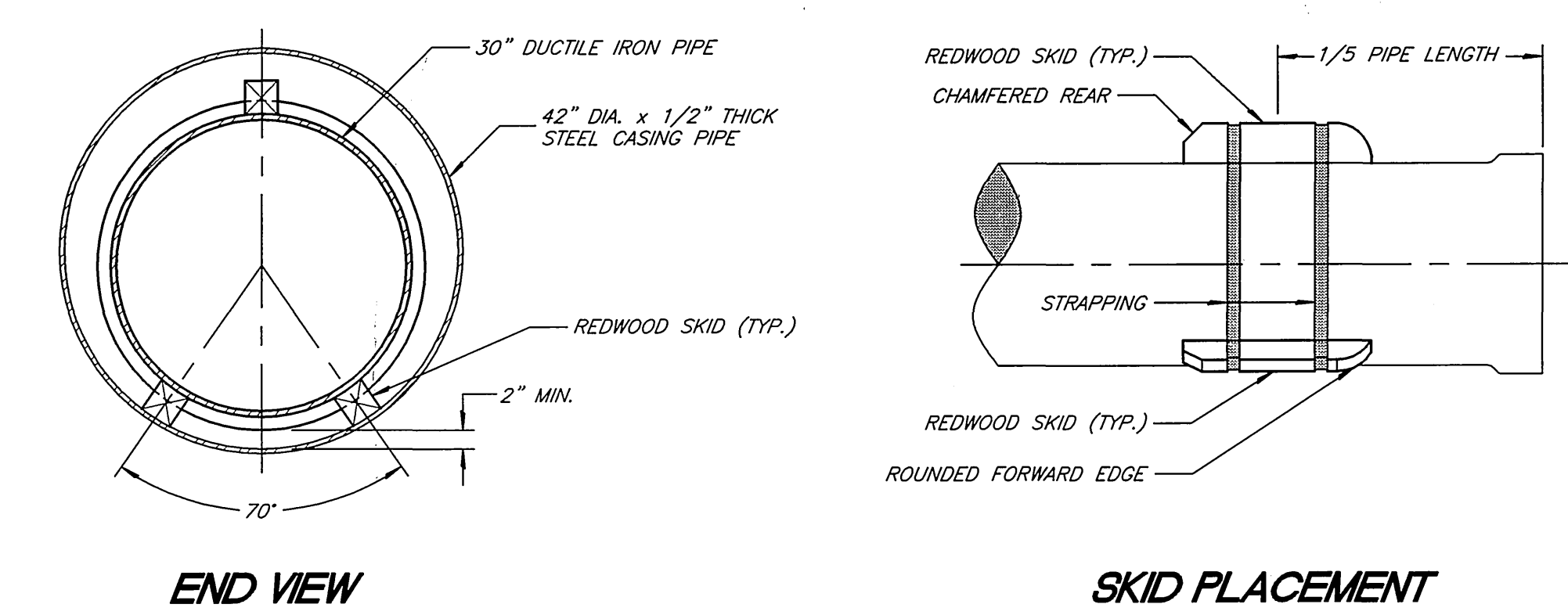
**S-1678**

SHEET 7 OF 8

INDEXED 9-12-2000 LfH

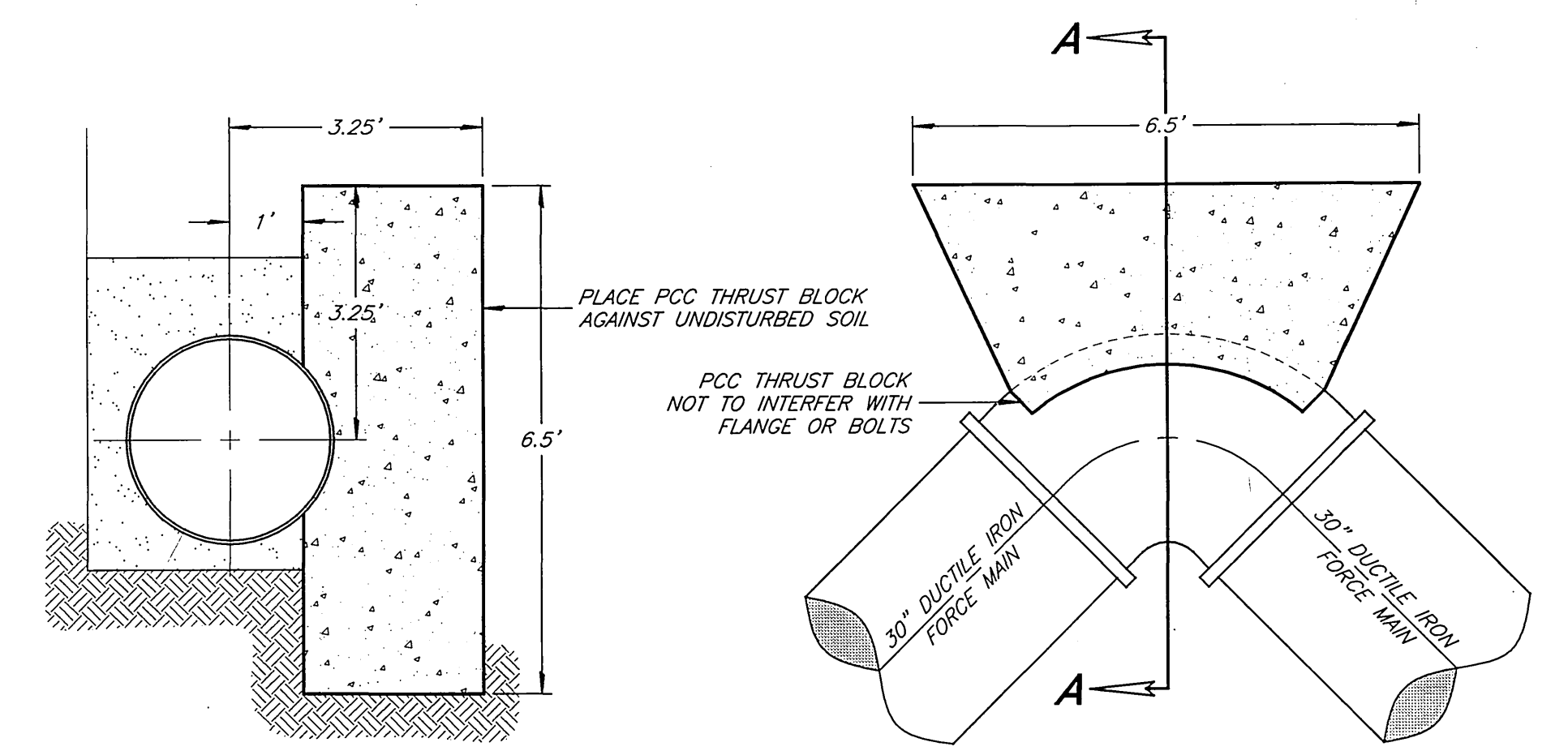


- NOTES:**
- SKIDS SHALL BE REDWOOD, 30" LONG, 4" WIDE, AND OF SUFFICIENT HEIGHT TO PROVIDE A MINIMUM 2" CLEARANCE BETWEEN INVERT AND BELL. ALL SKIDS SHALL BE OF EQUAL DIMENSIONS AND POSITIONED UNIFORMLY.
  - ALL STEEL CASING PIPE FIELD JOINTS SHALL BE WELDED FULL CIRCUMFERENCE.
  - CARRIER PIPE SHALL BE AIR TESTED PRIOR TO SLURRY BACKFILLING AND SEALING CASING.
  - CARRIER PIPE SHALL BE BACKFILLED WITH A ONE SACK PCC SLURRY MIX.
  - UPSTREAM AND DOWNSTREAM ELEVATIONS TO BE VERIFIED PRIOR TO SEALING CASING.
  - ENDS OF CASING TO BE SEALED WITH BRICK AND MORTAR. PLACE 1" MINIMUM PVC PIPE AT INVERT OF CASING (THROUGH BRICK) AND SURROUND WITH 2 CUBIC FEET CRUSHED ROCK.

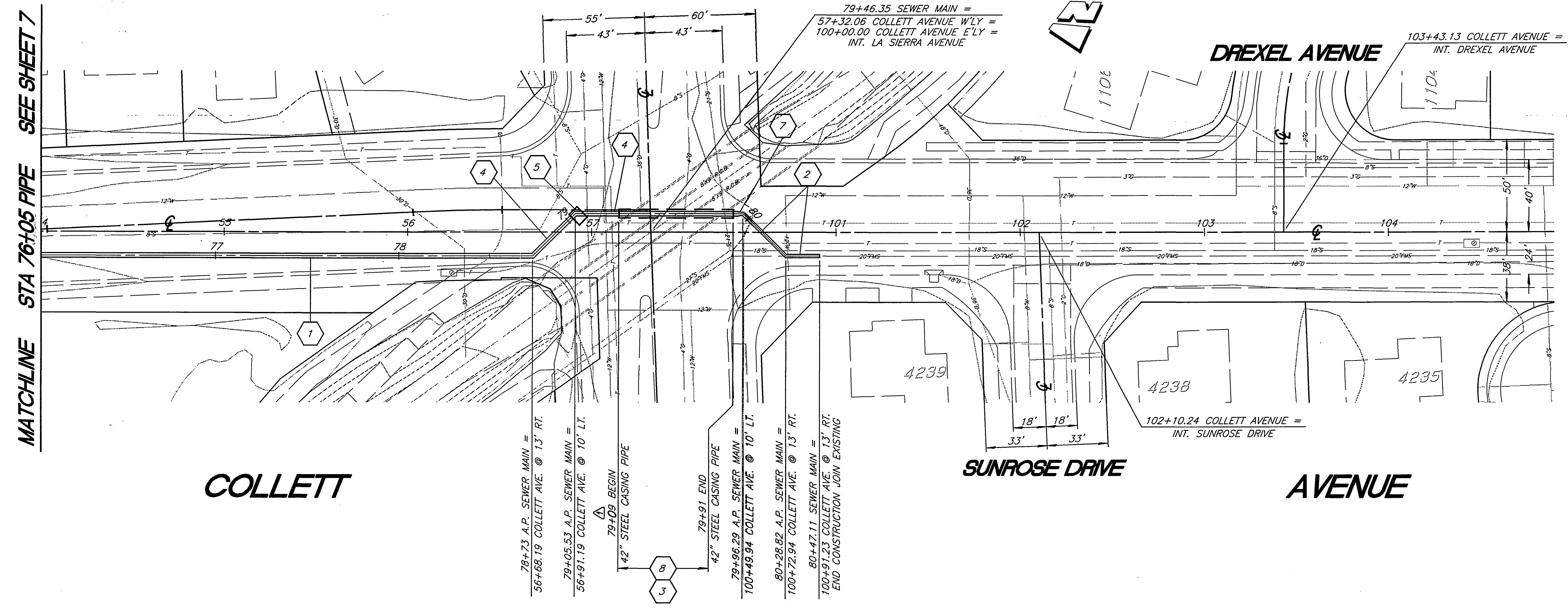


**STEEL CASING PIPE AND SKID DETAIL**  
N.T.S.

**BENCHMARK - E2-H3**  
P.K. NAIL & CITY ENGINEER TAG IN THE CENTER OF THE MOST NORTHERLY CURB RETURN OF COLLETT AVENUE AND GOLDEN AVENUE.  
ELEV.: 697.98



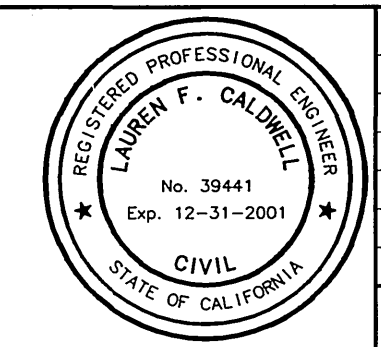
**PCC THRUST BLOCK DETAIL**  
SCALE: 1"=2'



- CONSTRUCTION NOTES**
- INSTALL CITY SUPPLIED 30" DUCTILE IRON PIPE WITH CASE 1 BEDDING.
  - INSTALL CITY SUPPLIED 20" RESTRAINED JOINT DUCTILE IRON PIPE WITH CASE 1 BEDDING.
  - INSTALL CITY SUPPLIED 30" DUCTILE IRON PIPE IN 42" STEEL CASING PER STEEL CASING & SKID DETAIL SHOWN ON SHT. 8.
  - INSTALL CITY SUPPLIED 30" RESTRAINED JOINT DUCTILE IRON PIPE WITH CASE 1 BEDDING.
  - CONSTRUCT 6' x 8' PRE-CAST CONCRETE MANHOLE.
  - INSTALL CITY SUPPLIED 30" TO 20" CONCENTRIC REDUCER.
  - JACK 42" STEEL CASING WITH WELDED JOINTS.

**IMPORTANT NOTICE**  
Section 4216/4217 of the Government Code requires a Dig Alert identification Number to be issued before a Permit to Excavate will be valid. For your Dig Alert ID, Number call CALL TOLL FREE 48 HOURS BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600

**ENGINEER IN RESPONSIBLE CHARGE**  
*Lauren F. Caldwell*  
LAUREN F. CALDWELL  
R.C.E. No. 39441 expires 12/31/2001  
DATE 8/16/2000



DESIGNED BY *KARL* DRAWN BY *CO/DO* CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT			
APPROVED BY	BY	DATE	APPROVED BY
DEPUTY P.W. DIRECTOR	<i>MS</i>	8/16/00	<i>Richard M. DeLoach</i>
PRINCIPAL ENGINEER	<i>MS</i>	8/16/00	PUBLIC WORKS DIRECTOR
STREET SERVICES	<i>MS</i>	8/16/00	
SURVEYOR	<i>MS</i>	8/16/00	
TRAFFIC DIVISION			
PARKS DEPARTMENT			
DATE 8-17-00			

**LA SIERRA AREA  
SEWER FORCE MAIN**  
PIERCE STREET PUMP STATION  
TO LA SIERRA AVE

ACCT. NO. 9711723203 440301XX  
**S-1678**  
SHEET 8 OF 8  
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'