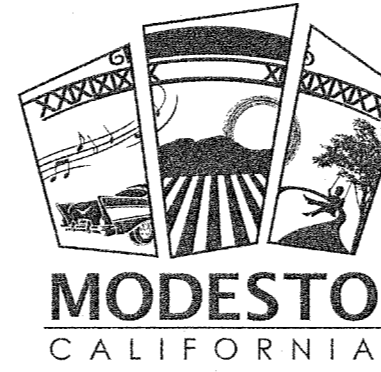


*Jesse Franco*  
 JESSE FRANCO, PE  
 RPE C77602  
 SENIOR CIVIL ENGINEER  
 CITY OF MODESTO UTILITIES DEPARTMENT  
 DATE: 10/27/16

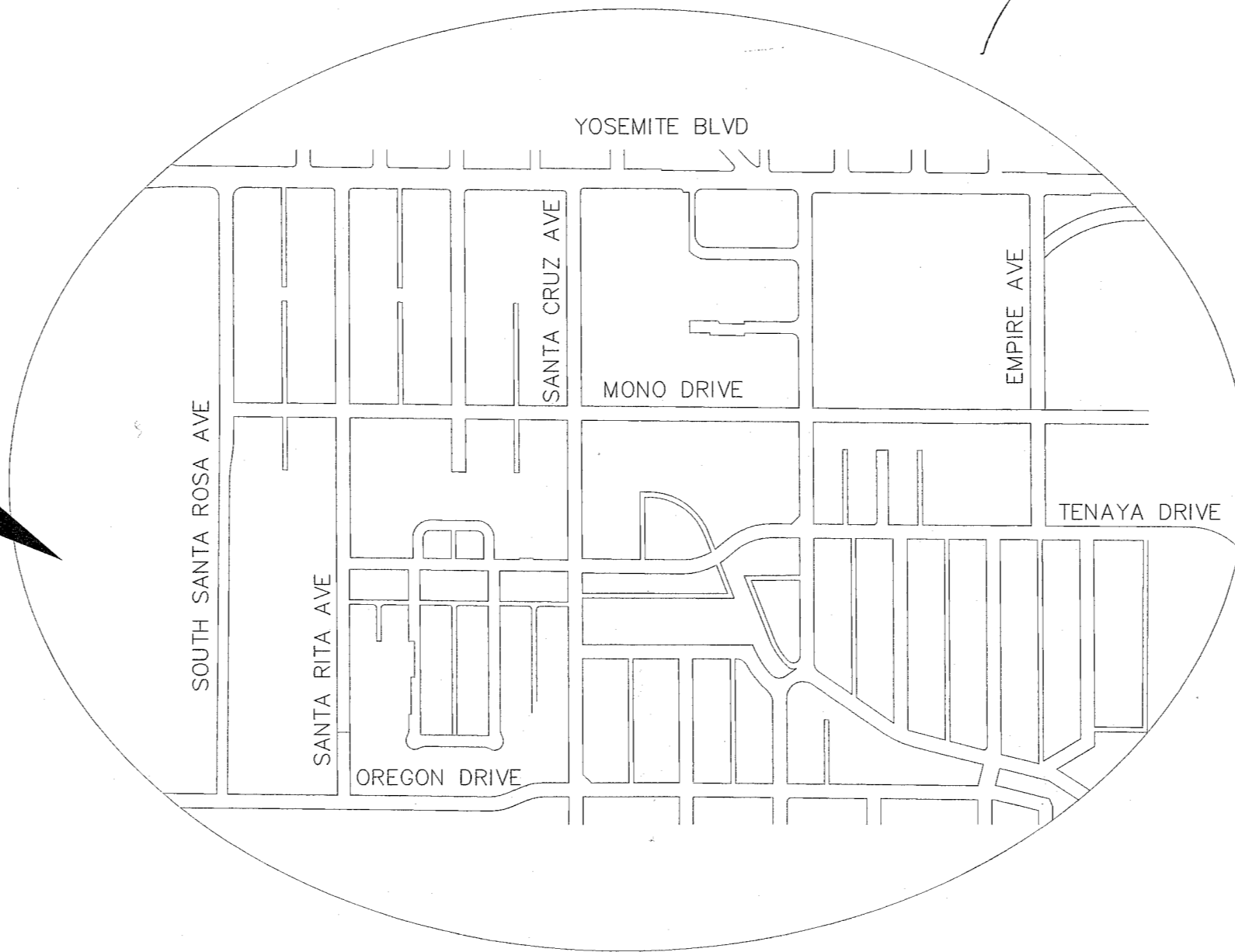
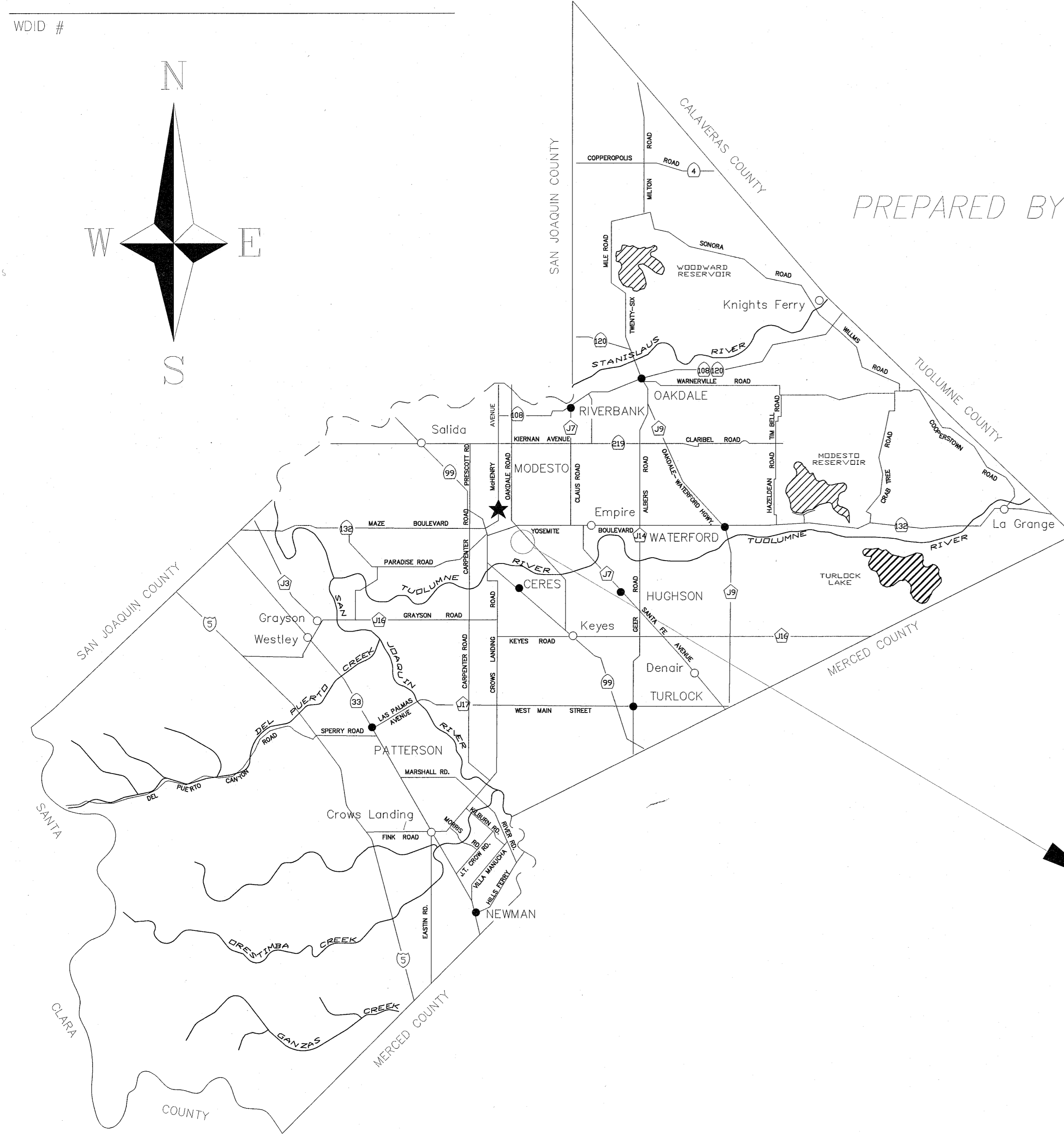
*Matthew Machado*  
 FOR: MATTHEW MACHADO, PE  
 DIRECTOR OF PUBLIC WORKS  
 DATE: 11/3/16

STANISLAUS COUNTY  
 DEPARTMENT OF PUBLIC WORKS  
 PLANS FOR THE CONSTRUCTION OF  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENT PROJECT  
 TO BE SUPPLEMENTED BY DEPARTMENT OF PUBLIC WORKS  
 STANISLAUS COUNTY STANDARDS AND SPECIFICATIONS, LATEST  
 EDITION



PREPARED BY CITY OF MODESTO UTILITIES DEPARTMENT

WDID #



LENGTH OF PROJECT = ±20,046 FEET

NO SCALE

INDEX OF SHEETS	
1	COVER SHEET
2	KEY MAP
3	PHASING PLAN
SEWER MAIN CONSTRUCTION	
4	MONO DRIVE STA: 10+00 TO 14+00
5	MONO DRIVE STA: 14+00 TO 19+20
6	MONO DRIVE STA: 19+20 TO 24+40
7	MONO DRIVE STA: 24+40 TO 28+95
8	SANTA RITA AVENUE STA: 15+01 TO 19+00
9	SANTA RITA AVENUE STA: 19+00 TO 21+56
10	TENAYA DRIVE STA: 22+30 TO 25+10
11	TENAYA DRIVE STA: 25+10 TO 27+49
12	DEL MAR COURT STA: 24+81 TO 29+30
13	SANTA RITA AVENUE STA: 115+01 TO 119+21
14	SANTA ANA AVENUE STA: 19+98 TO 22+23
15	SANTA ANA AVENUE STA: 119+98 TO 124+48
16	S SANTA CRUZ AVENUE STA: 24+95 TO 27+00
17	SANTA CRUZ AVENUE STA: 124+95 TO 129+35
18	SANTA RITA AVENUE STA: 10+00 TO 14+17
19	YOSEMITE MAIN (ALLEY 2036) STA: 10+00 TO 14+17
20	BENSON AVENUE STA: 10+00 TO 12+90
21	BENSON AVENUE STA: 12+90 TO 15+97
22	CANAL STREET STA: 16+50 TO 20+73
23	S SANTA CRUZ AVENUE STA: 20+73 TO 24+90
24	S SANTA CRUZ AVENUE STA: 24+90 TO 27+22
25	OREGON DRIVE STA: 08+97 TO 11+33
26	CANAL STREET STA: 115+97 TO 118+38
27	BLOCK 2068 ALLEY STA: 18+36 TO 19+54
28	S SANTA CRUZ AVENUE STA: 120+73 TO 124+18
29	BLOCK 2066 ALLEY STA: 23+17 TO 27+00
30	BLOCK 2066 ALLEY STA: 27+00 TO 29+89
31	TENAYA DRIVE STA: 124+42 TO 127+36
32	TENAYA DRIVE STA: 24+42 TO 27+00
33	TENAYA DRIVE STA: 27+00 TO 30+57
34	BLOCK 2065 ALLEY STA: 27+26 TO 29+80
35	PAGE COURT STA: 30+49 TO 35+08
36	MONO DRIVE STA: 27+18 TO 31+57
37	MONO DRIVE STA: 26+40 TO 30+80
38	MONO DRIVE STA: 30+80 TO 35+20
39	MONO DRIVE STA: 35+20 TO 39+21
40	TENAYA DRIVE STA: 21+60 TO 25+05
41	BLOCK 2012 ALLEY STA: 23+98 TO 26+66
42	TENAYA DRIVE STA: 21+30 TO 26+90
43	TENAYA DRIVE STA: 26+90 TO 32+30
44	TENAYA DRIVE STA: 32+30 TO 34+67
45	EMPIRE AVENUE STA: 31+75 TO 36+13
46	ANGLE LANE STA: 34+49 TO 39+09
47	THRASHER AVENUE STA: 25+18 TO 28+48
48	BLOCK 2106 ALLEY STA: 10+00 TO 12+10
49	EMPIRE AVENUE STA: 10+00 TO 14+00
50	EMPIRE AVENUE STA: 14+00 TO 18+00
51	EMPIRE AVENUE STA: 18+00 TO 20+69
52	TIOGA DRIVE STA: 11+23 TO 15+36
53	THRASHER AVENUE STA: 15+36 TO 19+80
54	THRASHER AVENUE STA: 19+80 TO 23+56
55	S CONEJO AVENUE STA: 10+00 TO 12+54
56	S CONEJO AVENUE STA: 12+54 TO 17+30
57	S CONEJO AVENUE STA: 17+30 TO 21+24
58	TRENCH RESTORATION DETAILS
SEWER TRENCH SURFACE RESTORATION	
59	MONO DRIVE STA: 10+00 TO 24+30
60	MONO DRIVE STA: 24+30 TO 39+30
61	MONO DRIVE STA: 39+30 TO 47+25
62	TENAYA DRIVE STA: 10+00 TO 24+50
63	TENAYA DRIVE STA: 24+50 TO 37+70
64	TENAYA DRIVE STA: 37+70 TO 43+50
65	DEL MAR COURT STA: 10+00 TO 15+93
66	CANAL STREET STA: 10+00 TO 18+02
67	PAGE COURT & TIOGA DRIVE STA: 10+00 TO 14+97
68	SANTA RITA AVENUE STA: 18+00 TO 33+97
69	SANTA ANA AVENUE STA: 10+00 TO 22+00
70	SANTA CRUZ AVENUE STA: 10+00 TO 26+90
71	SANTA CRUZ AVENUE STA: 26+90 TO 31+00
72	BENSON AVENUE & OREGON DR STA: 10+00 TO 15+91
73	THRASHER AVENUE STA: 10+00 TO 22+50
74	EMPIRE AVENUE STA: 10+00 TO 27+45
75	S CONEJO AVENUE STA: 10+00 TO 21+18
D1	DETAIL SHEET 1
D2	DETAIL SHEET 2



NO	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95336



COVER SHEET  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO: UPPSWR01  
 DATE: 06/07/2016  
 DR BY: PK&LC  
 CK BY: PK&LC  
 SCALE: VARIES

SHEET NUMBER  
 1  
 OF 75 SHEETS

Job: 07\_0016 - 316 - Stanislaus County Sewer Improvements (UWS) 2016 Improvements PG 1 Cover Sheet.dwg  
 P:\12 Sanitary Sewers\Current CIPs\11-1111 Airport Sewer Improvements\PLANS\DWG\2016 IMPROVEMENTS\PG 1 COVER SHEET.DWG



**GENERAL NOTES (ALL SHEETS):**

- LOCATIONS OF EXIST. GAS MAINS ARE BASED ON PG&E RECORD MAPS. EXACT LOCATIONS OF GAS MAINS AND OTHER UTILITIES TO BE DETERMINED THROUGH U.S.A. MARKINGS. CONSEQUENTLY, THE LOCATION OF PROPOSED SEWER MAINS MAY BE ADJUSTED ACCORDINGLY AS TO AVOID CONFLICT WITH EXIST. UTILITIES.
- PROPOSED SEWER LATERALS ARE SHOWN AT THE APPROXIMATE CENTERS OF LOTS, BUT EXACT LOCATIONS MAY BE CHANGED ACCORDINGLY TO AVOID ANY APPARENT CONFLICTS. CONTRACTOR TO CONTACT PROPERTY OWNER TO DETERMINE LOCATION PREFERENCE, IN ACCORDANCE WITH SPECIFICATIONS.
- CONTRACTOR SHALL TEMPORARILY RELOCATE ALL INTERFERING MAILBOXES WITHIN THE PROPOSED CONSTRUCTION AREA AS TO MAINTAIN ACCESSIBILITY UNTIL SUCH TIME THAT THEY MAY BE PERMANENTLY RELOCATED.
- INTERFERING PORTIONS OF DRIVEWAYS AND WALKWAYS TO BE REMOVED AND REPLACED IN KIND AND SHALL PROVIDE MINIMUM 5' TRANSITION BETWEEN NEW AND EXISTING. WALKWAYS TO BE REPLACE TO THE NEAREST JOINT.
- WHERE EXIST. FENCES CONFLICT WITH IMPROVEMENTS, THE CONTRACTOR SHALL DEMO THE PORTION OF THE FENCE CREATING THE CONFLICT AND REPLACE IN KIND AT NEW LOCATION IN THE COUNTY ROW. CONTRACTORS MUST COORDINATE WITH PROPERTY OWNERS PRIOR TO RELOCATING FENCING.
- CONTRACTOR SHALL TEMPORARILY RELOCATE ALL STREET AND TRAFFIC SIGNS WITHIN THE PROPOSED CONSTRUCTION AREA AS TO MAINTAIN VISIBILITY UNTIL SUCH TIME THAT THEY MAY BE PERMANENTLY RELOCATED.
- MANHOLE COVERS, WATER VALVE COVERS, CATCH BASIN GRATES, DRAIN INLET COVERS AND OTHER UTILITY COVERS SHALL BE RAISED TO GRADE.

**ABBREVIATIONS**

ACP	ASBESTOS CEMENT PIPE
DIP	DUCTILE IRON PIPE
E	EAST
EX	EXISTING
GIP	GALVANIZED IRON PIPE
INV	INVERT
L	LOWER
LF	LINEAR FEET
N	NORTH
PRO	PROPOSED
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
S	SOUTH/SLOPE
SSMH	SANITARY SEWER MANHOLE
STA	STATION
T	TELEPHONE
U	UPPER
VCP	VITRIFIED CLAY PIPE
W	WEST



**LEGEND**

	EXISTING POWER POLE
	EXISTING SANITARY MANHOLE
	PROPOSED SANITARY MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	EXISTING CATCH BASIN
	PROPOSED SANITARY SEWER
	PROPOSED SANITARY SEWER SERVICE AND CLEAN-OUT
	EXISTING WATER METER
	EXISTING TREE/VEGETATION
	EXISTING GAS
	EXISTING SANITARY SEWER MAIN
	EXISTING WATER MAIN
	ABANDONED WATER MAIN
	MID IRRIGATION MAIN
	EXISTING TELEPHONE
	EXISTING PROPERTY LINE
	EXISTING APN
	EXISTING RIGHT OF WAY

NO	DESCRIPTIONS	DATE	APPROVED

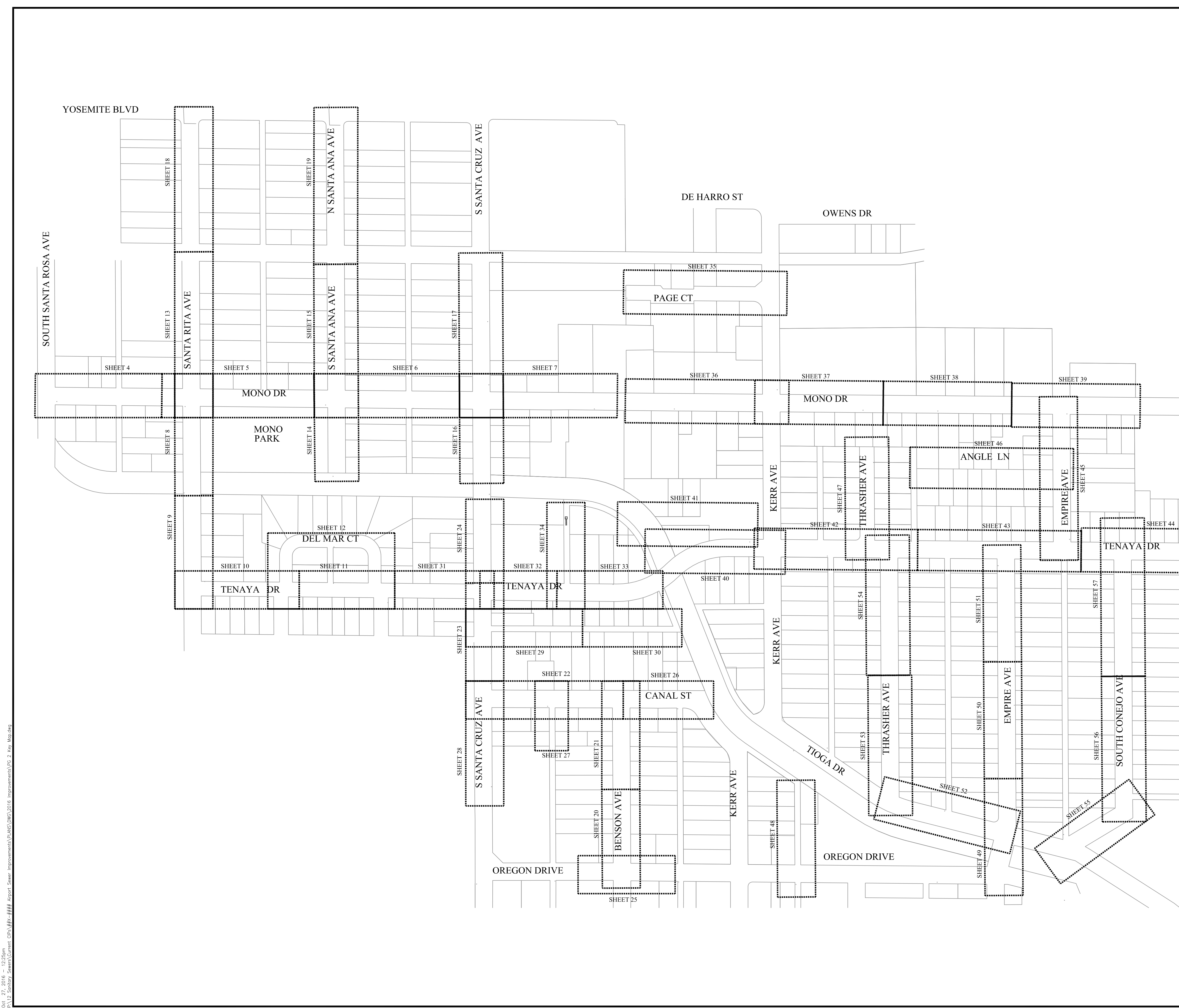
STANISLAUS COUNTY  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



KEY MAP  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

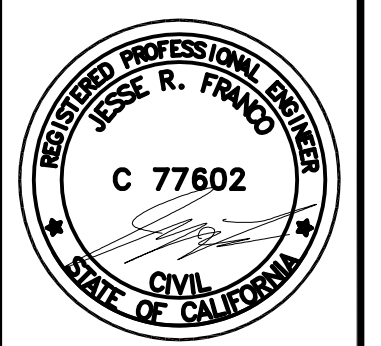
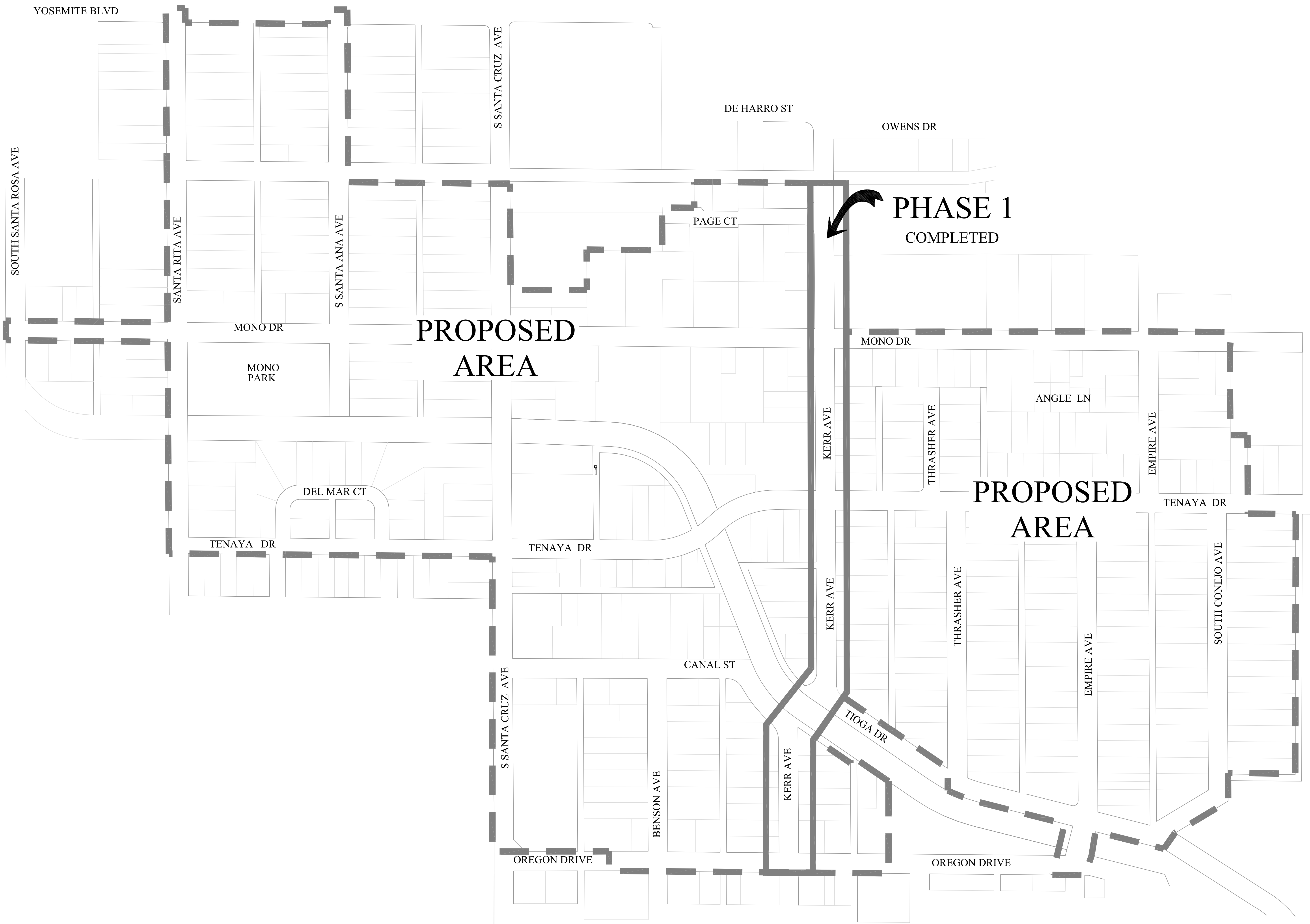
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DATE	06/07/2016
DR BY	PK&LC
CK BY	PK&LC
SCALE	VARIES

SHEET NUMBER  
**2**  
 OF 75 SHEETS



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PREPARED UNDER THE DIRECTION OF:		DATE:	
NO.	DESCRIPTIONS	REVISIONS	DATE

**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358

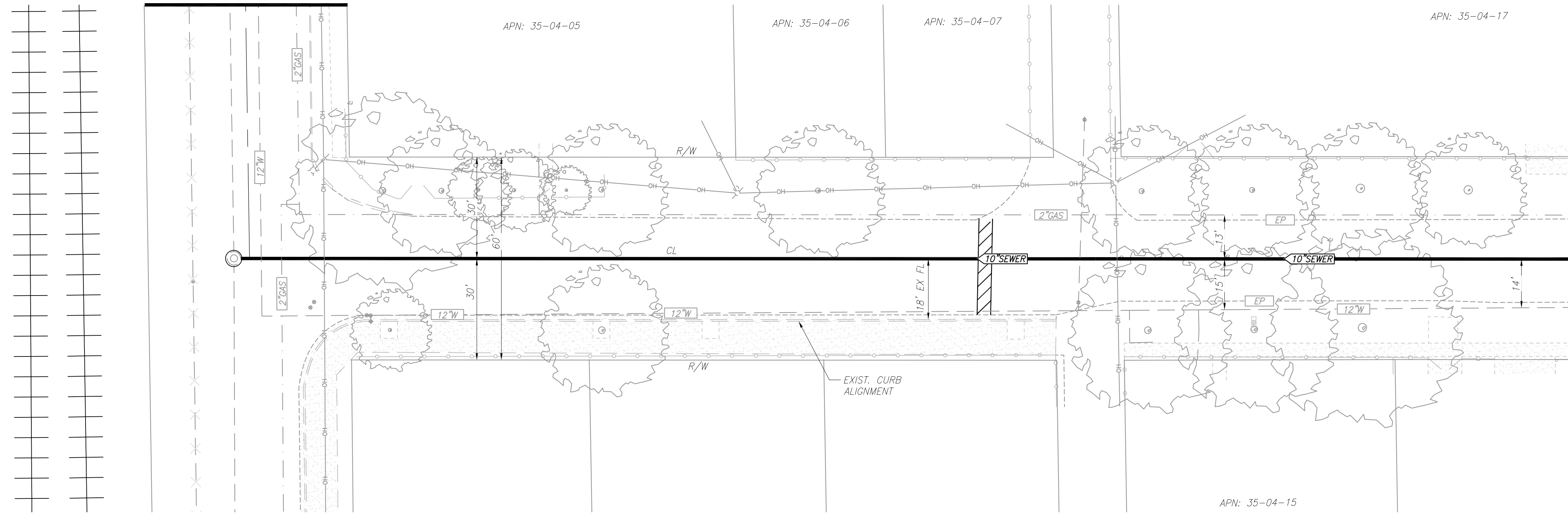


**PHASING PLAN**  
**AIRPORT NEIGHBORHOOD**  
**SEWER IMPROVEMENTS**  
 MODESTO, CALIFORNIA

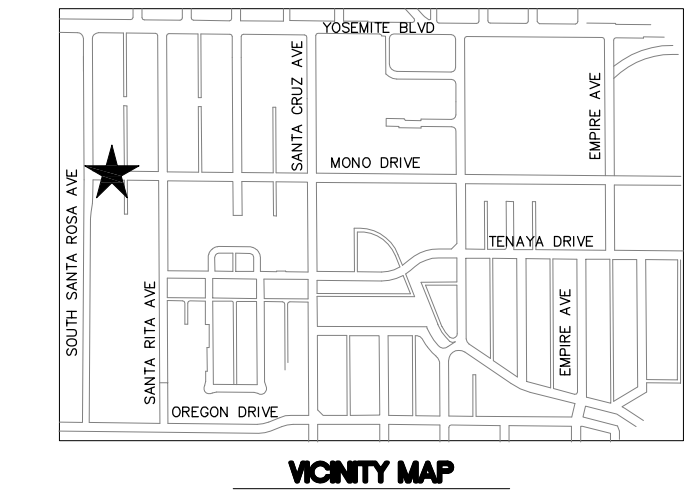
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SHEET NUMBER  
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 OF 75 SHEETS

S. SANTA ROSA AVE



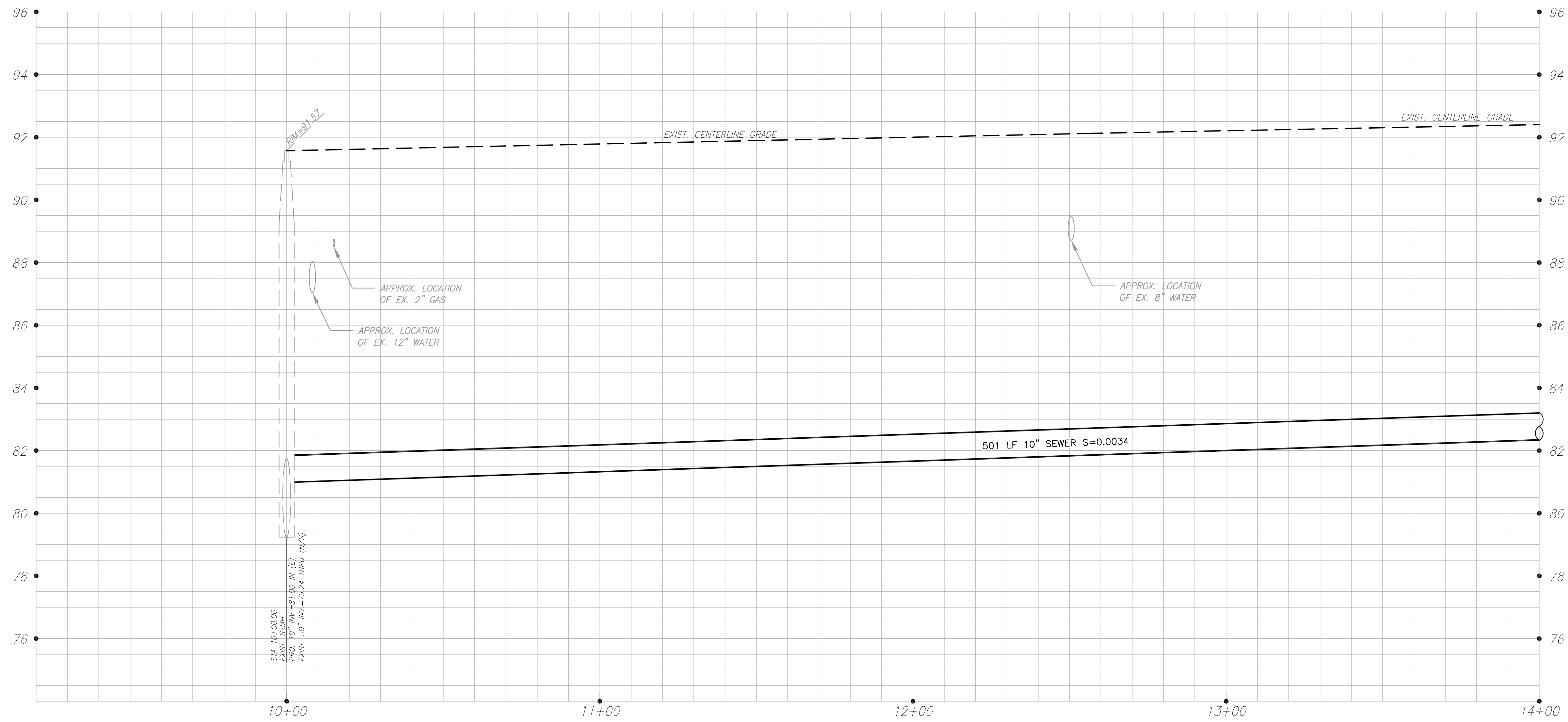
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PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED

MONO DRIVE



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358

MONO DRIVE  
 STA. 10+00 TO STA. 14+00  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO UPPSWR01  
 DATE 06/07/2016  
 DR BY PK/M/C  
 CK BY PK/M/C  
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PROFILE SCALE  
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 1" = 2' VERTICAL

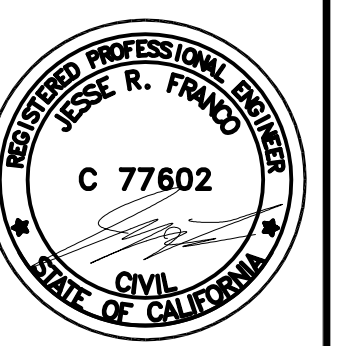
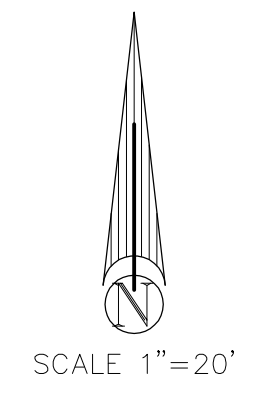
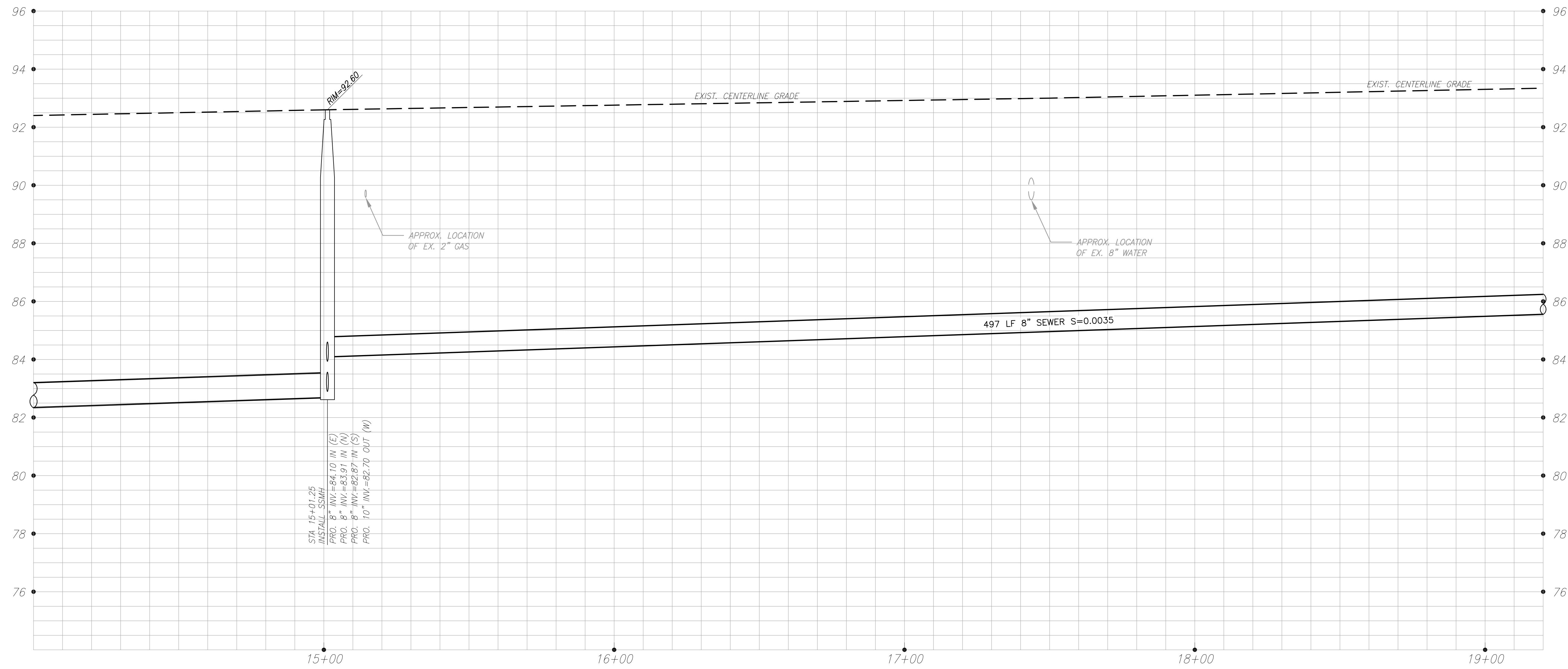
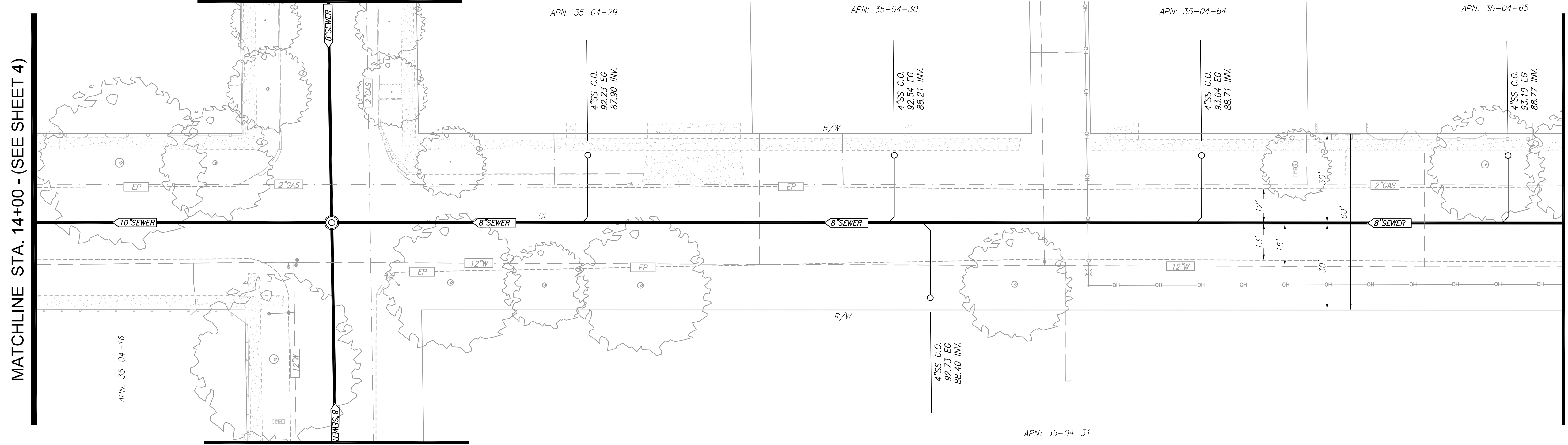
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SANTA RITA NORTH  
(SEE SHEET 13)

SANTA RITA SOUTH  
(SEE SHEET 8)

MONO DRIVE



NO.	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



MONO DRIVE  
STA. 14+00 TO STA. 19+20  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO	UPPSWR01
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CK BY	PK.MLC
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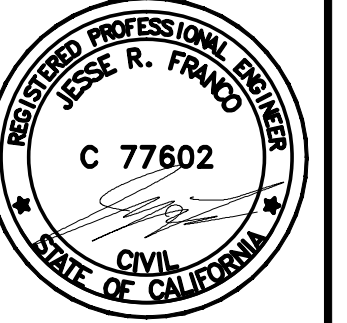
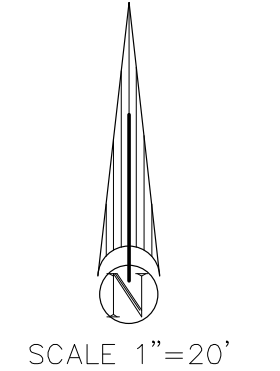
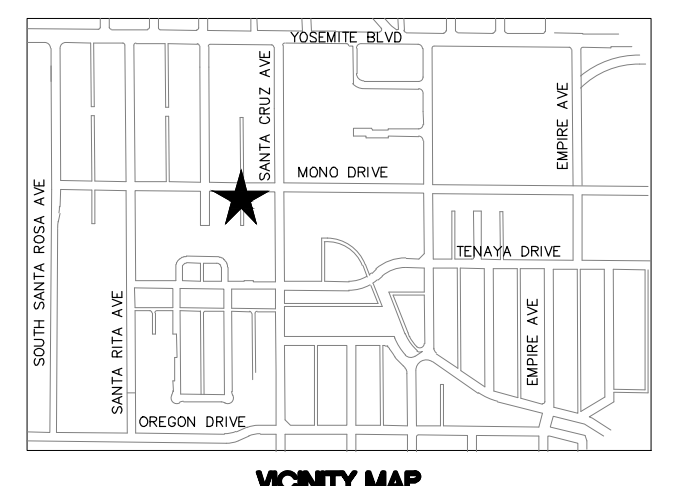
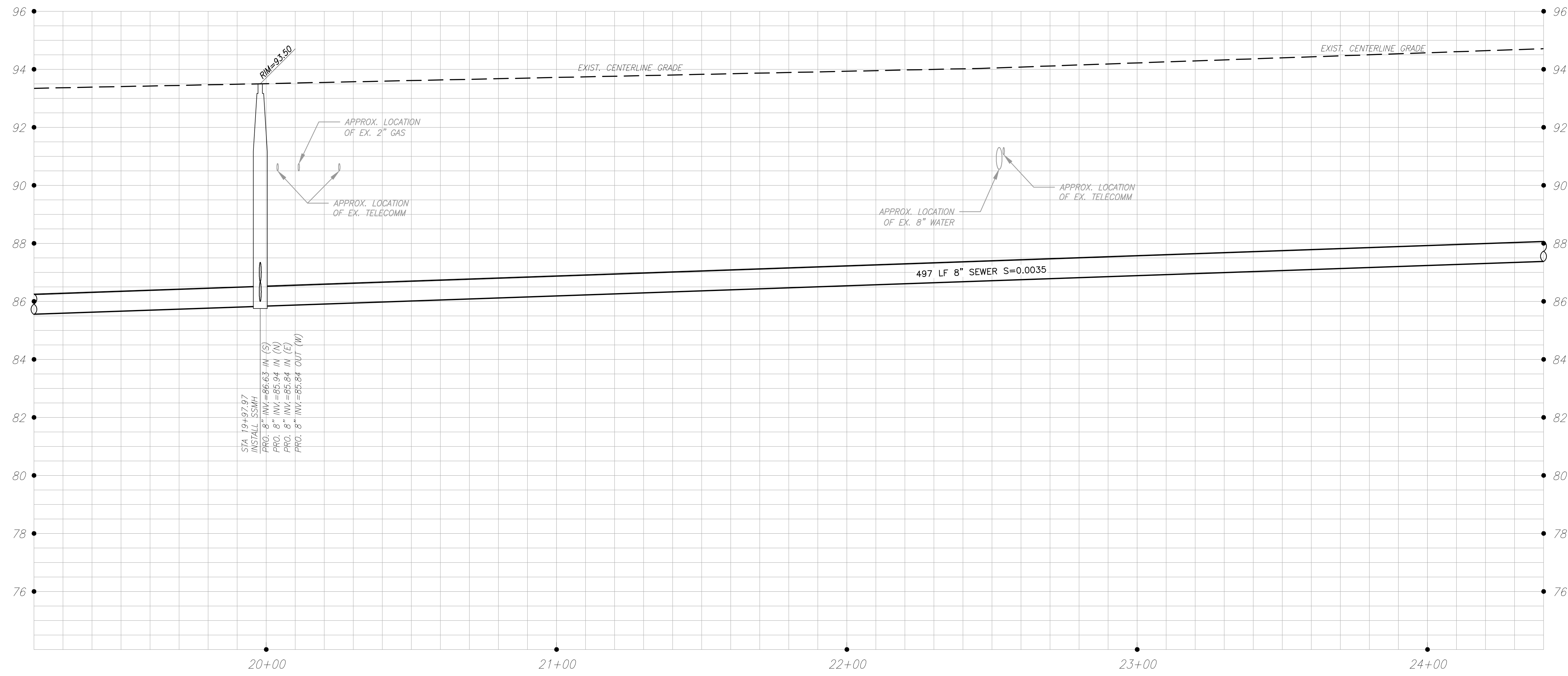
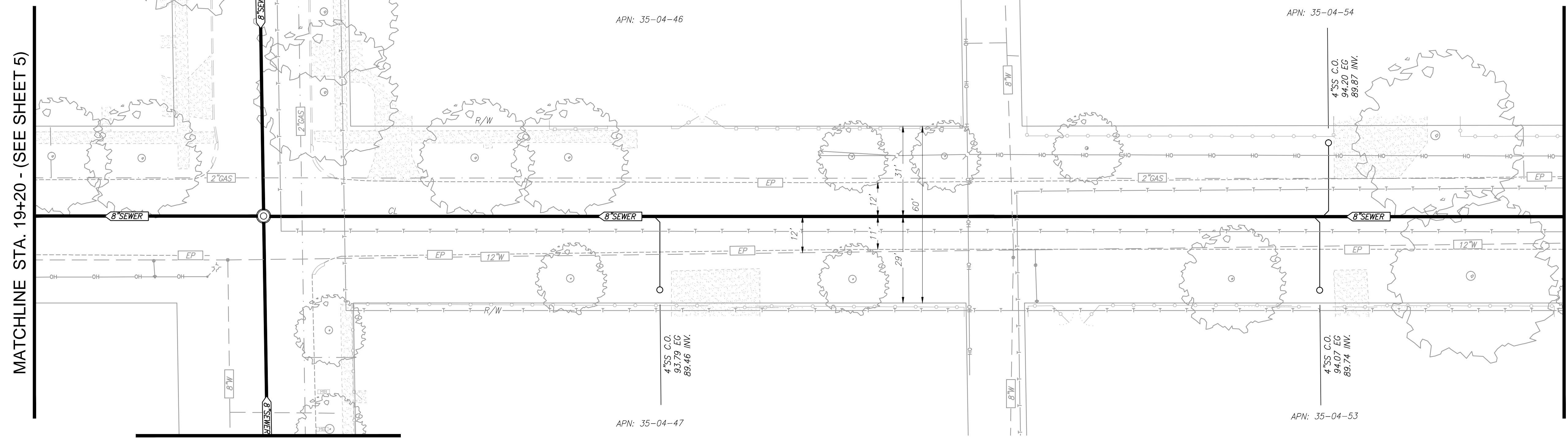
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1" = 2' VERTICAL

SANTA ANA NORTH  
(SEE SHEET 15)

SANTA ANA SOUTH  
(SEE SHEET 14)

MONO DRIVE



NO.	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



MONO DRIVE  
STA. 19+20 TO STA. 24+40  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

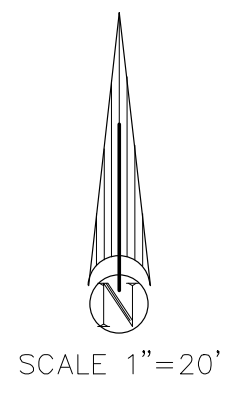
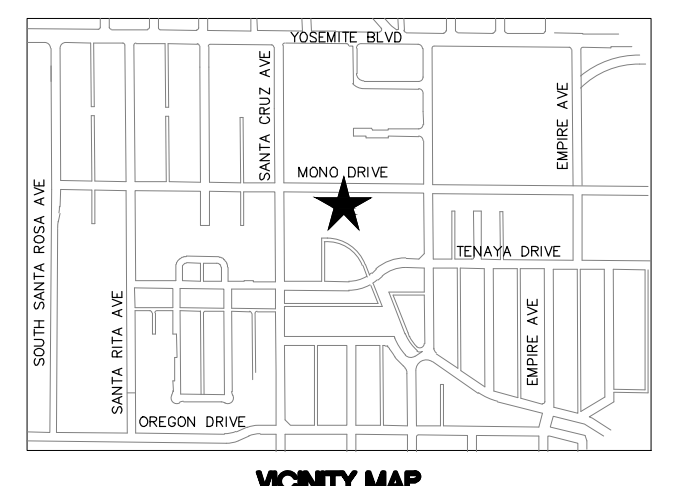
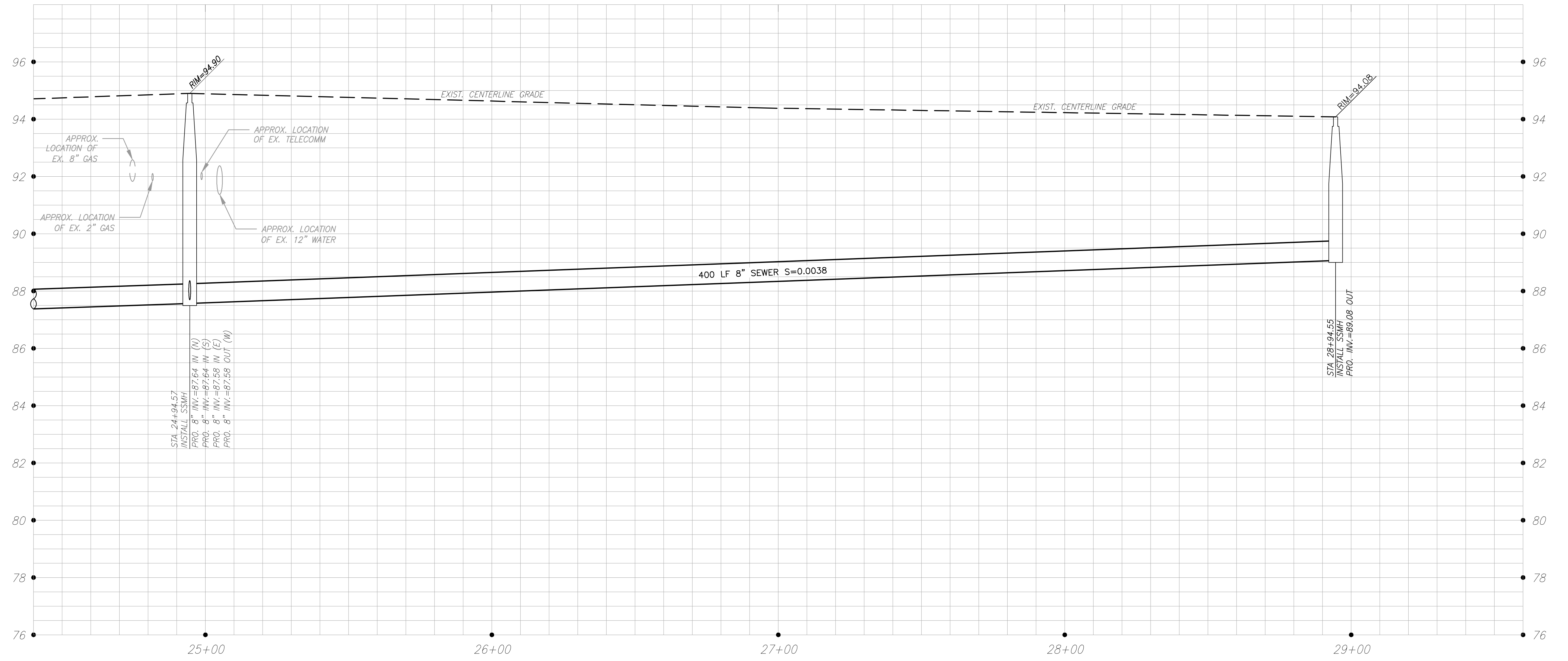
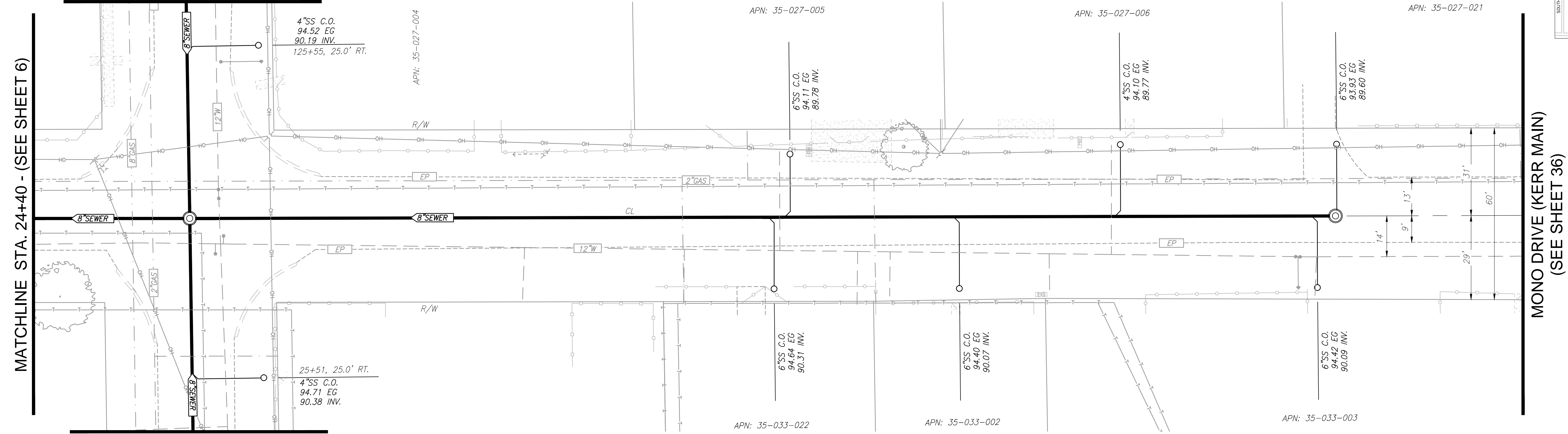
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**6**  
OF 75 SHEETS

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SANTA CRUZ NORTH  
(SEE SHEET 17)

SANTA CRUZ SOUTH  
(SEE SHEET 16)



NO	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358

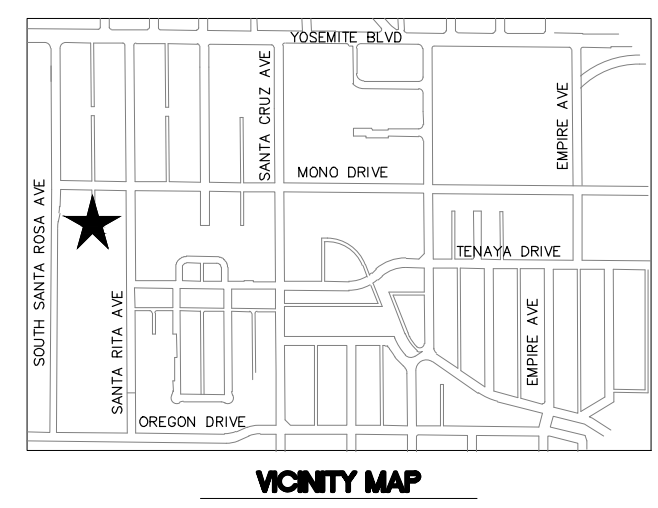
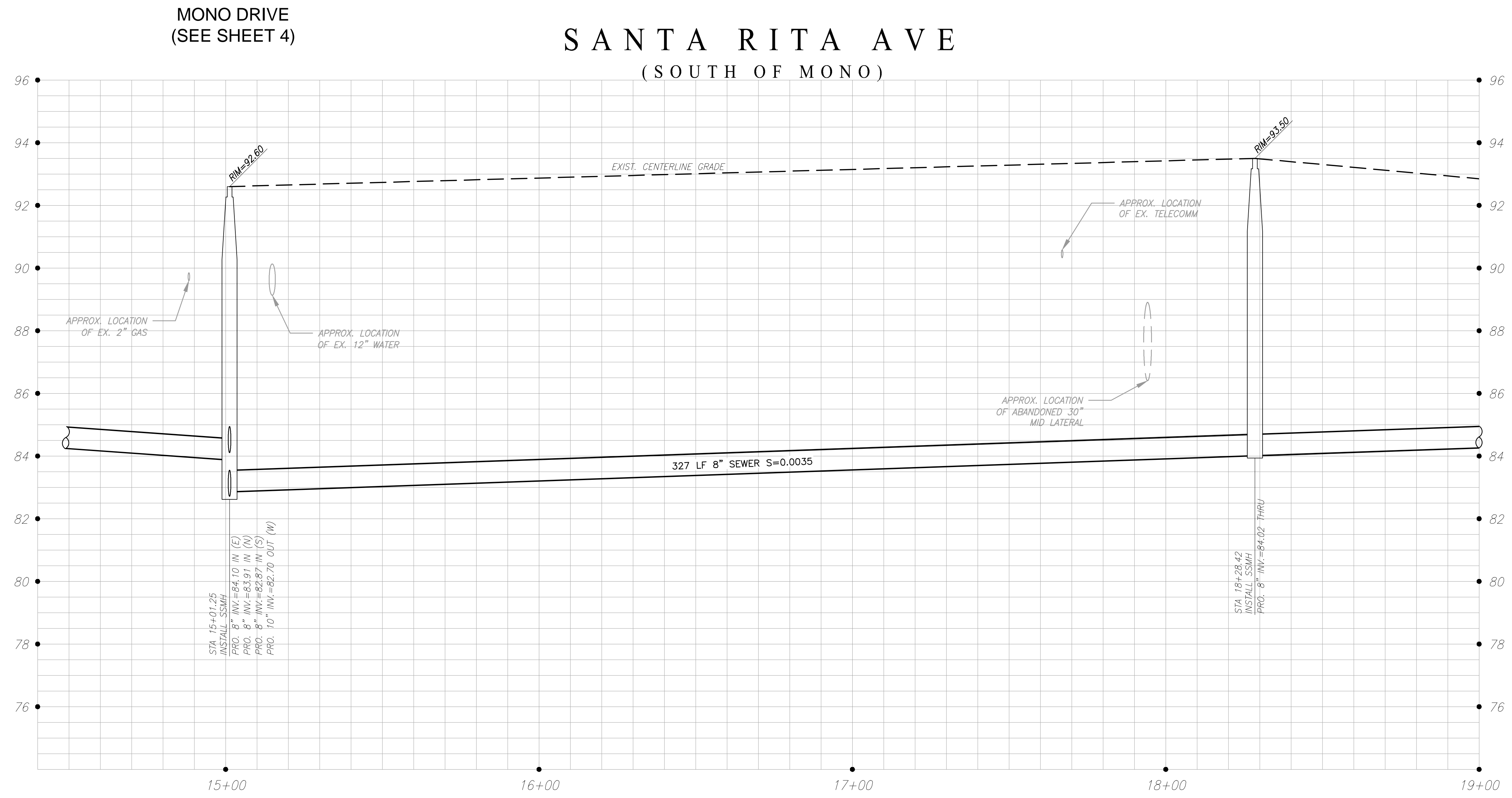
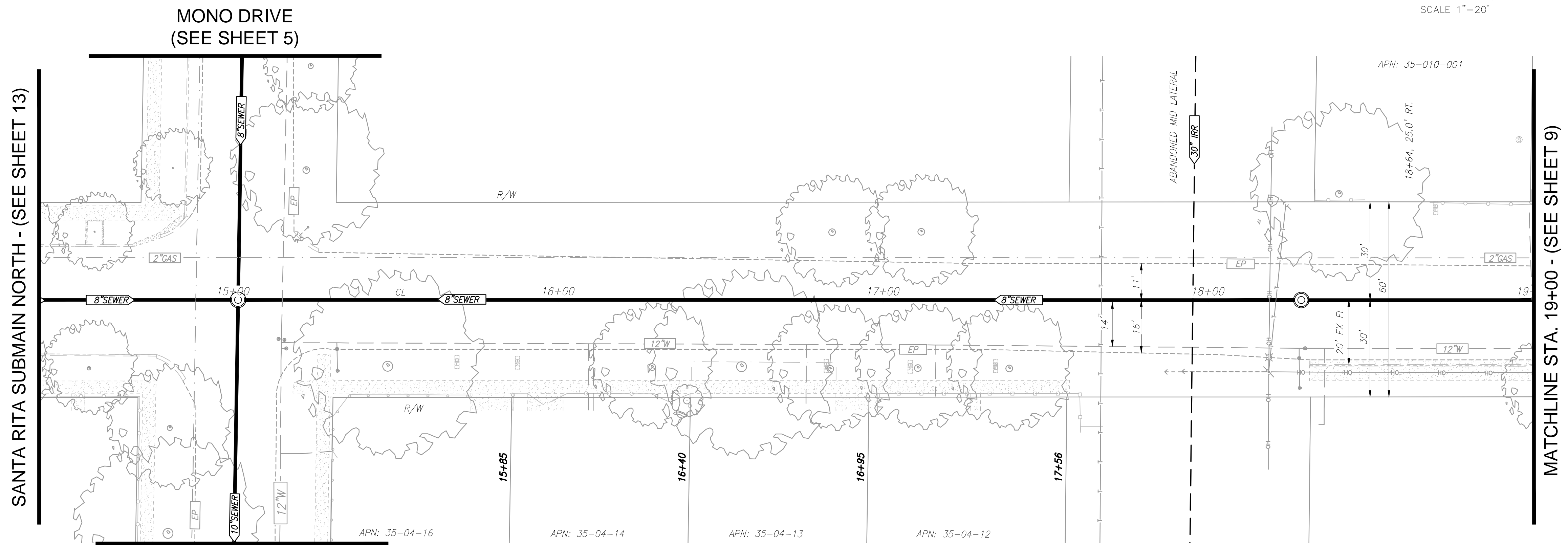


MONO DRIVE  
STA. 24+40 TO STA. 28+95  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO	UPPSWR01
DATE	06/07/2016
DR BY	PK&LC
CK BY	PK&LC
SCALE	VARIES

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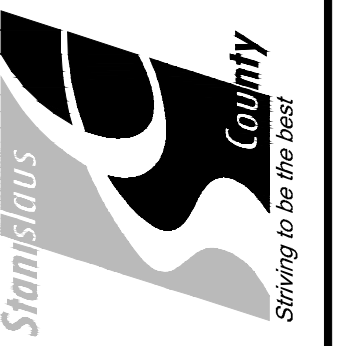


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NO.	DESCRIPTIONS	DATE	APPROVED



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



SANTA RITA AVENUE  
 STA. 15+01 TO STA. 19+00  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO	UPPSWR01
DATE	06/07/2016
DR BY	PK&LC
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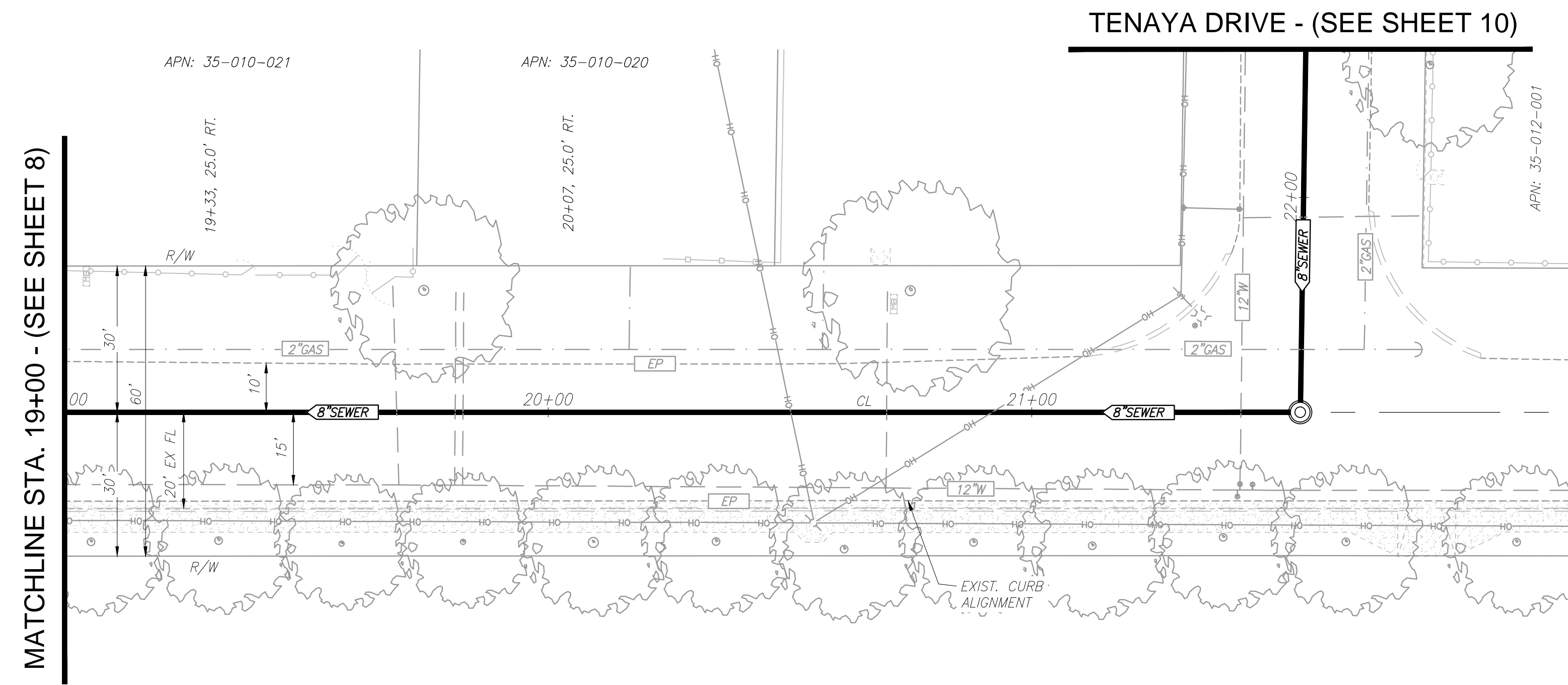
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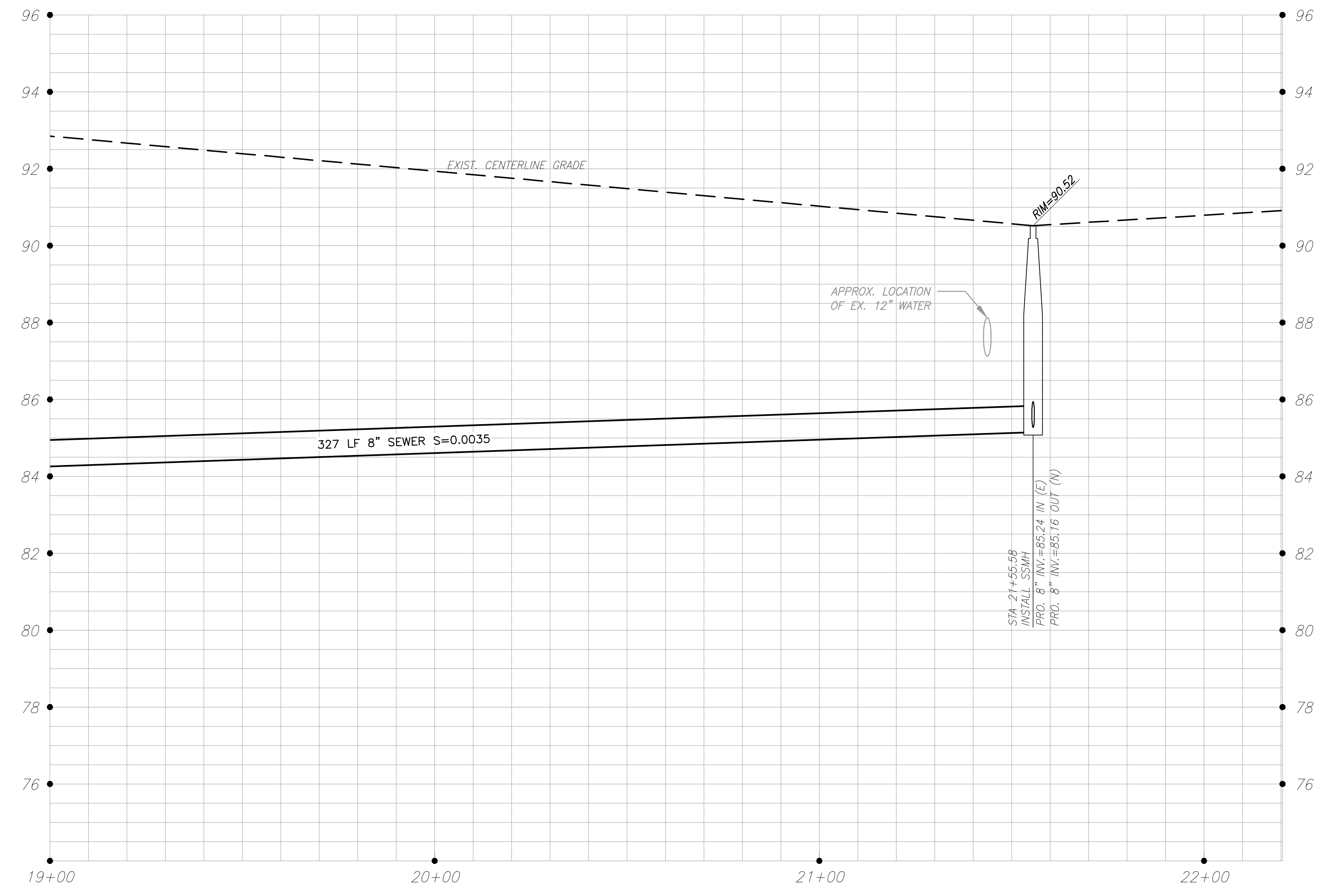
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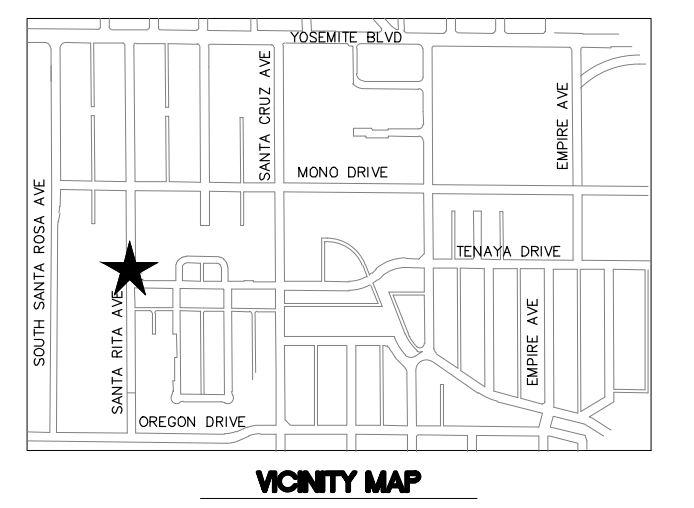
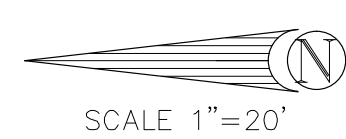
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## SANTA RITA AVE (SOUTH OF MONO)



**PROFILE SCALE**  
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 1" = 2' VERTICAL

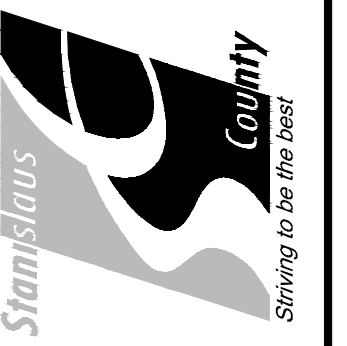


PREPARED UNDER THE DIRECTION OF:

NO	DESCRIPTIONS	DATE	APPROVED



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



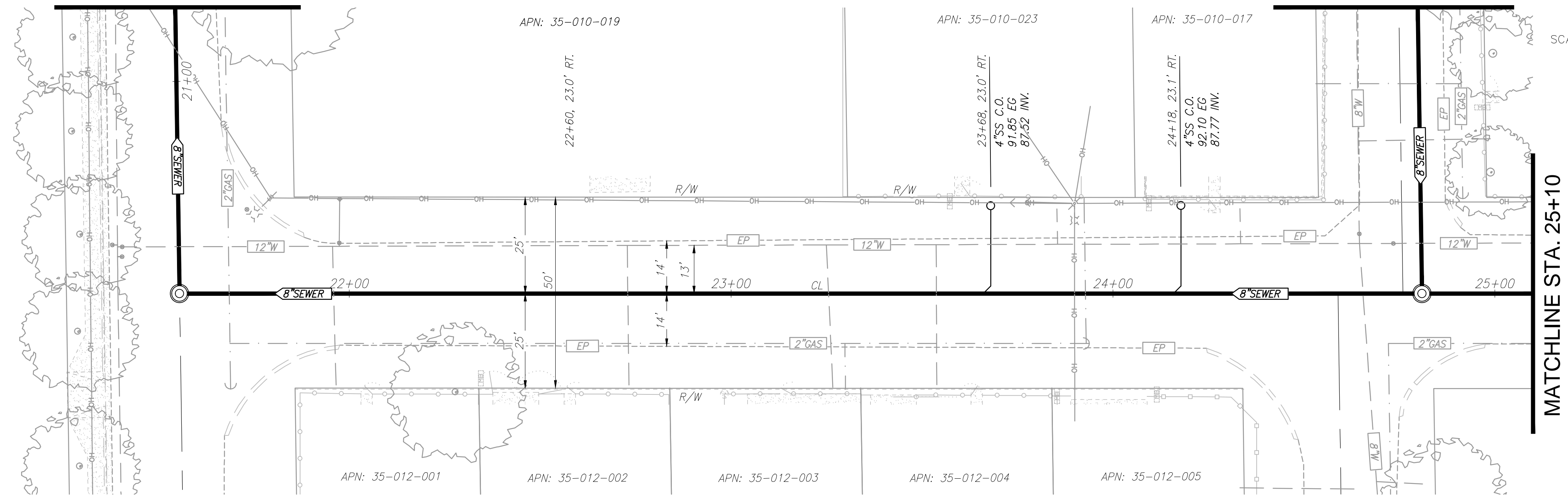
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 STA. 19+00 TO STA. 21+56  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO UPPSWR01  
 DATE 06/07/2016  
 DR BY PK&LC  
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 SCALE VARIES

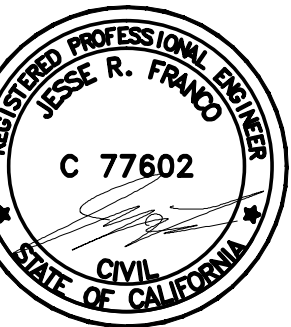
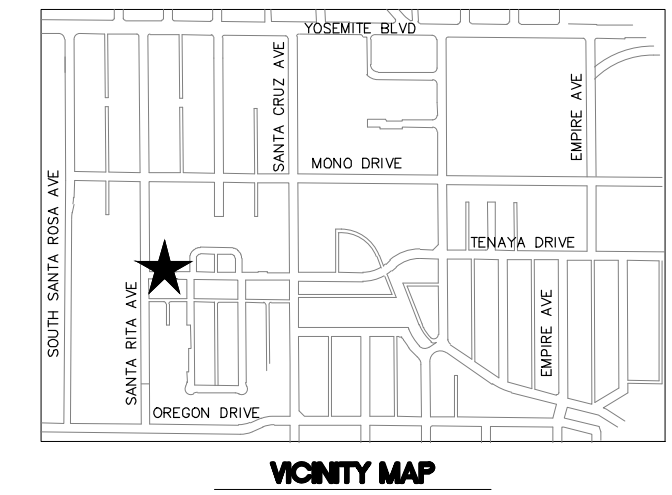
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 OF 75 SHEETS

SANTA RITA  
(SEE SHEET 9)

DEL MAR COURT  
(SEE SHEET 12)

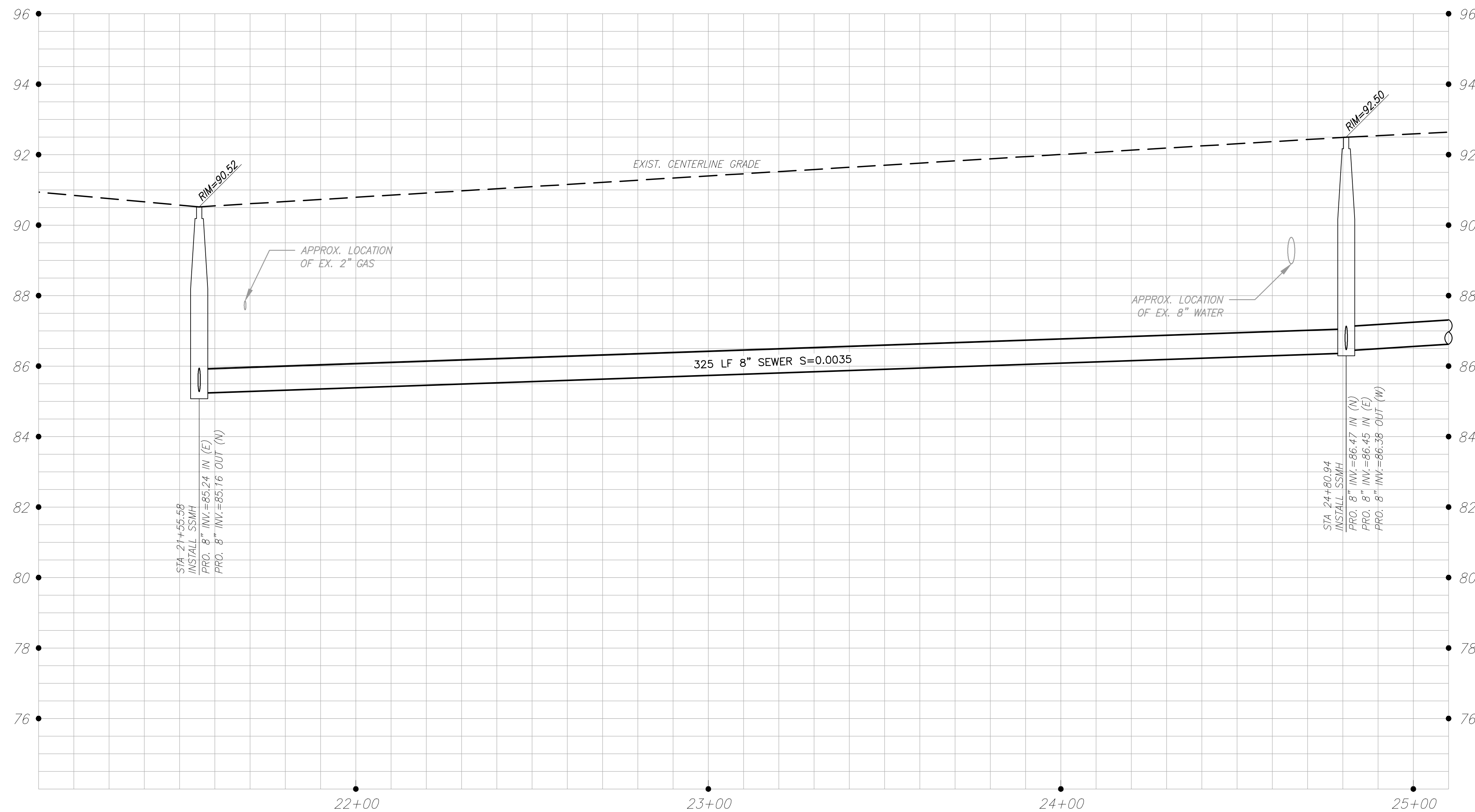


SCALE 1"=20'



NO.	DESCRIPTIONS	DATE	APPROVED

TENAYA DRIVE



**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



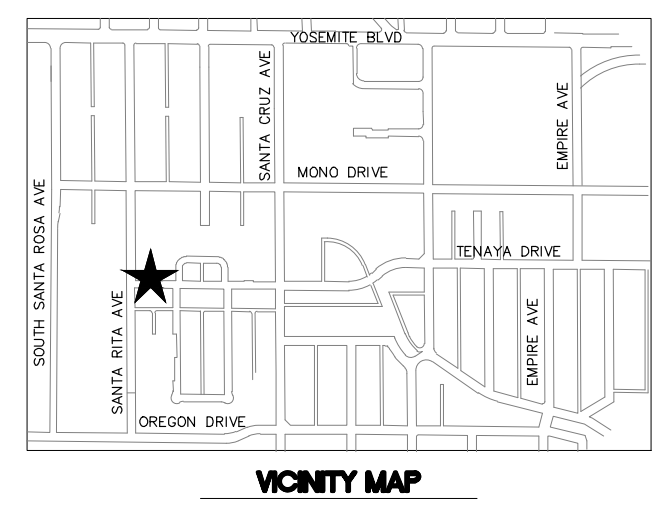
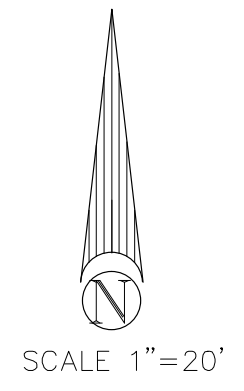
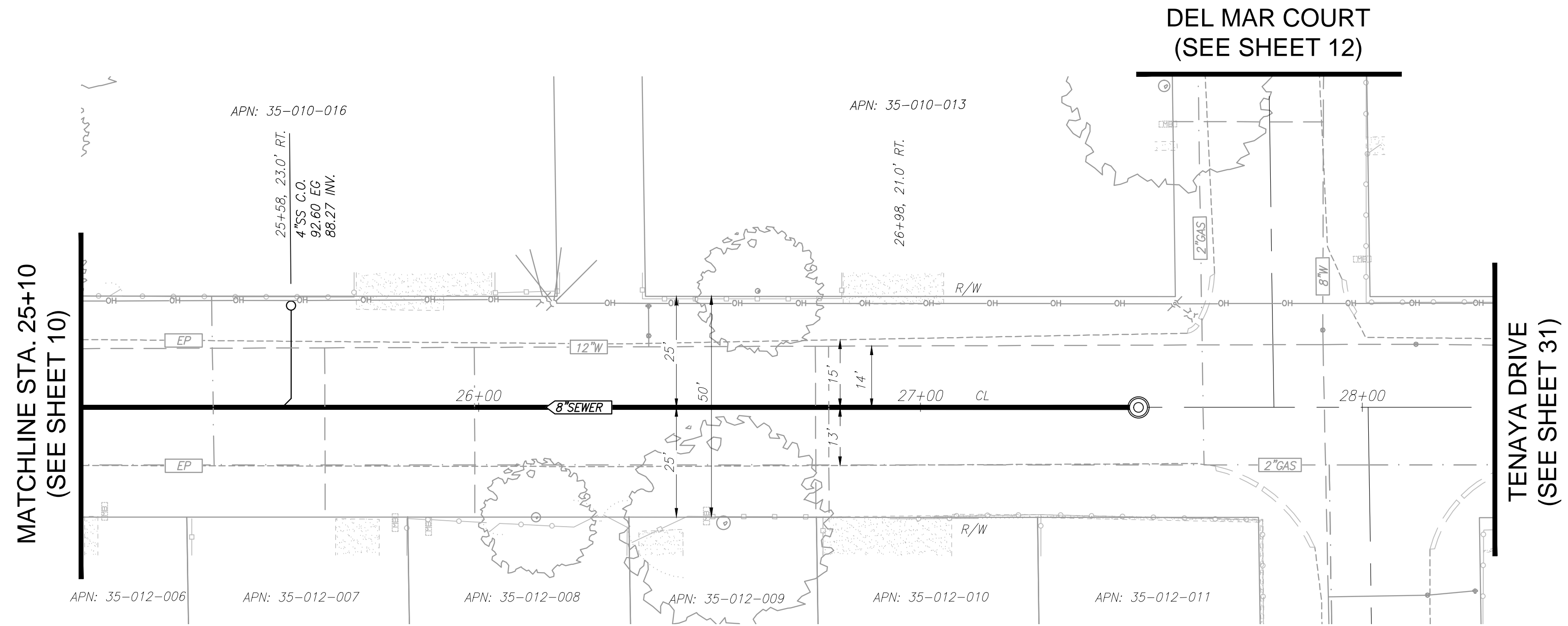
TENAYA DRIVE  
STA. 22+30 TO STA. 25+10  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PKMLC  
CK BY PKMLC  
SCALE VARIES

PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL

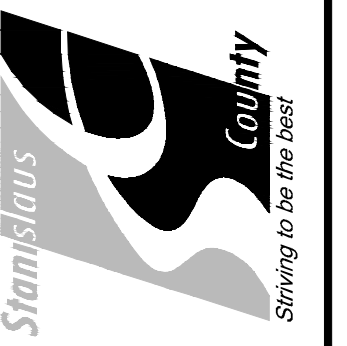
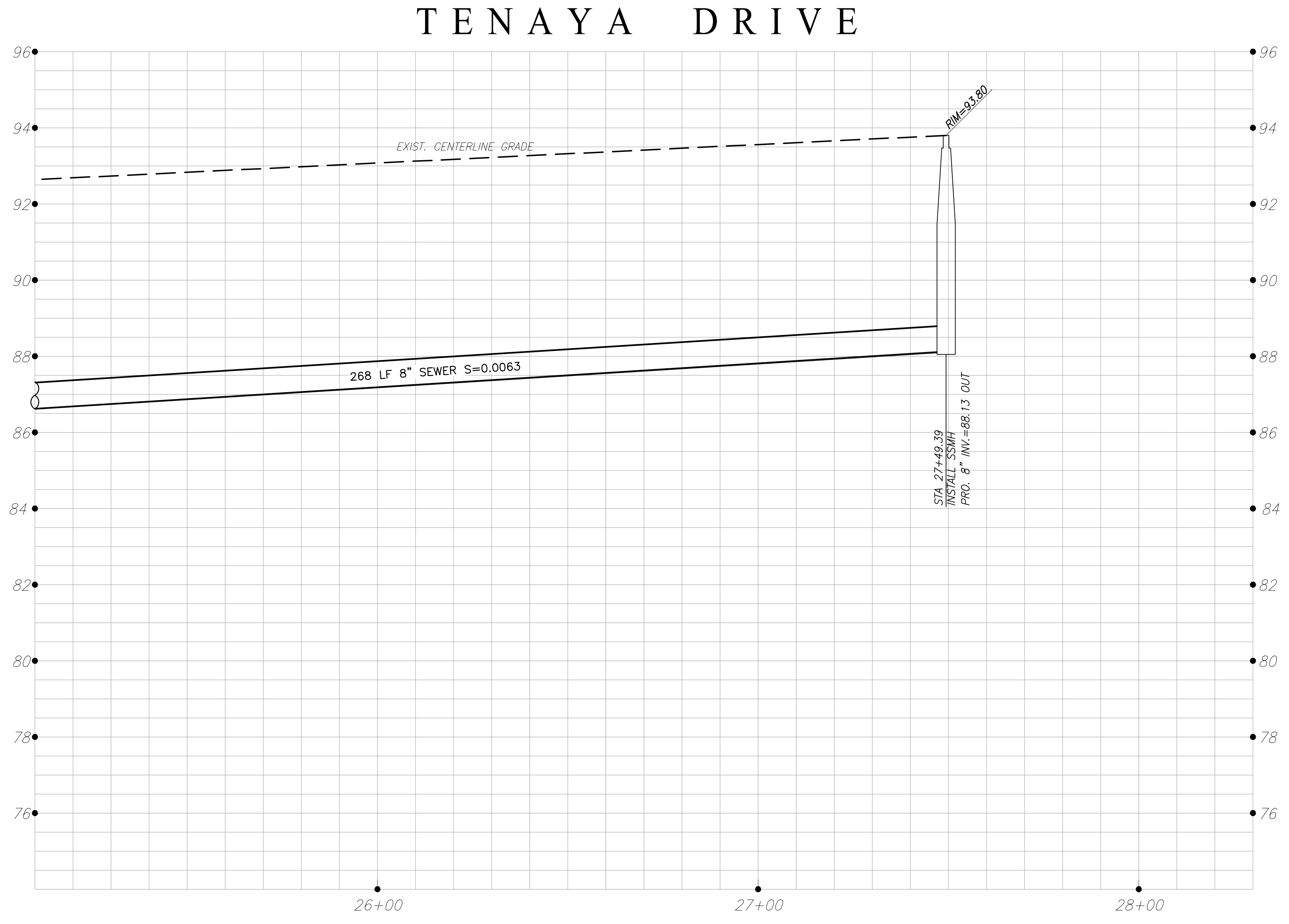
SHEET NUMBER  
**10**  
OF 75 SHEETS

06/27/2016 12:40pm C:\Users\jfranco\Documents\Projects\160601\Tenaya\160601\_Tenaya\_Sewer.dwg 4-17 Macro Draw Mds.dwg



PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358

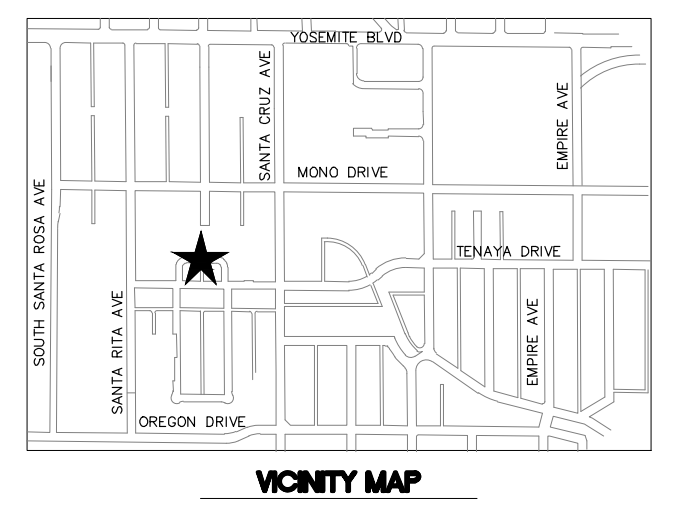
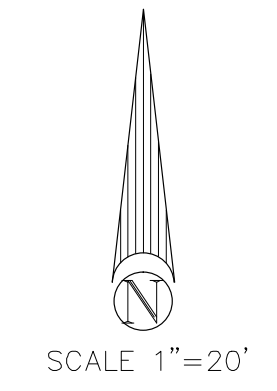
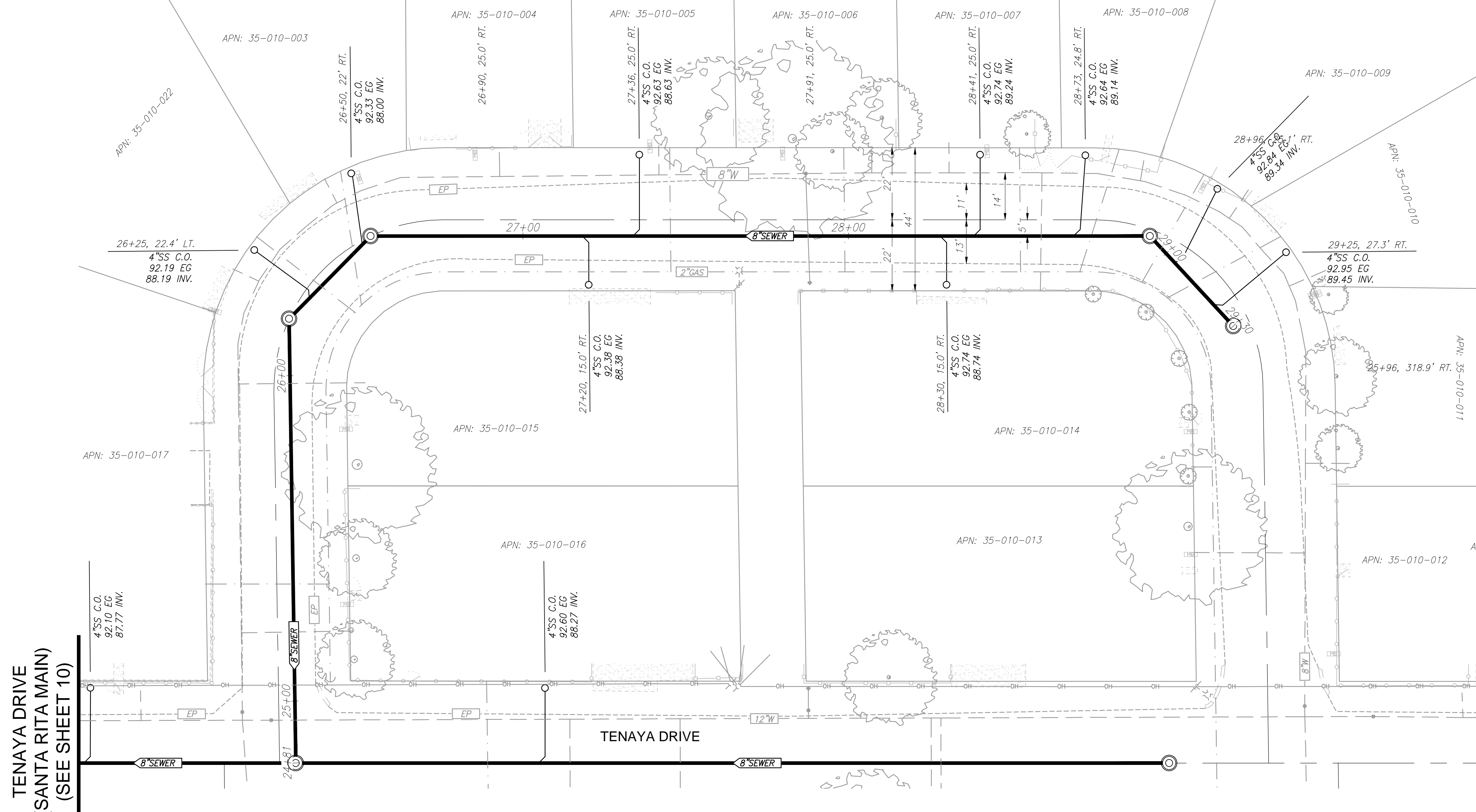
TENAYA DRIVE  
 STA. 25+10 TO STA. 27+49  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO UPPSWR01  
 DATE 06/07/2016  
 DR BY PK&LC  
 CK BY PK&LC  
 SCALE VARIES

SHEET NUMBER  
**11**  
 OF 75 SHEETS

**PROFILE SCALE**  
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 1" = 2' VERTICAL

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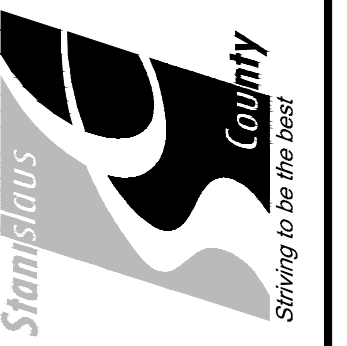


PREPARED UNDER THE DIRECTION OF:

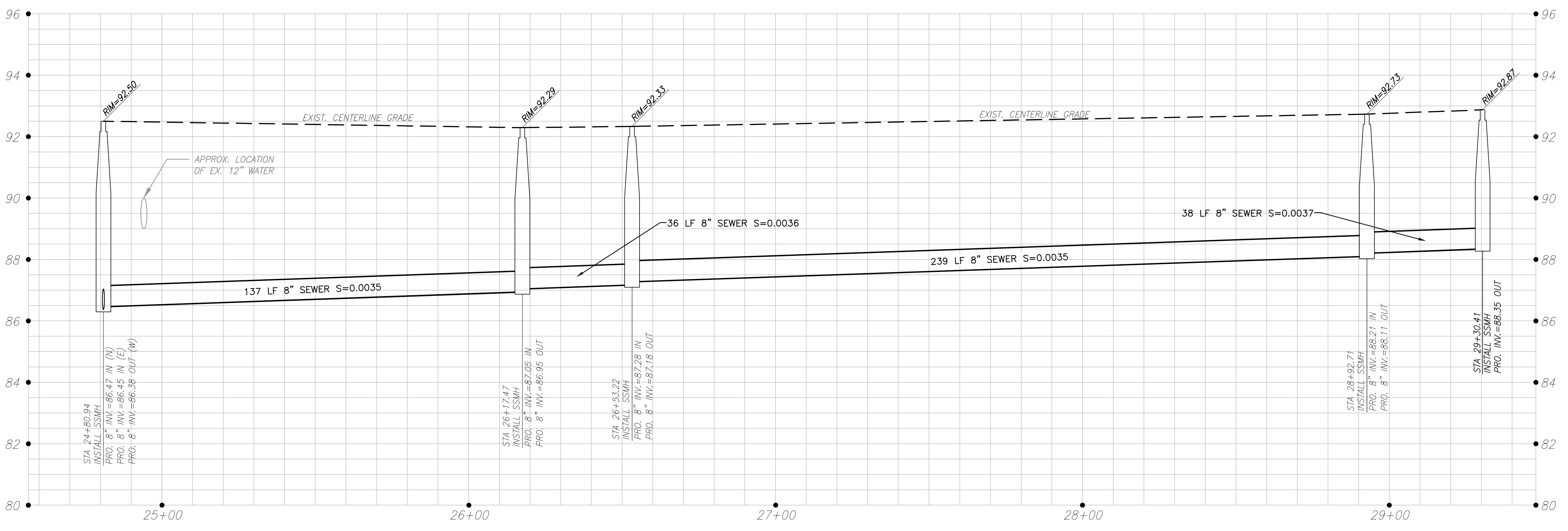
NO.	DESCRIPTIONS	DATE	APPROVED

TENAYA DRIVE  
(SANTA RITA MAIN)  
(SEE SHEET 10)

# DEL MAR COURT



**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL

DEL MAR COURT  
STA. 24+81 TO STA. 29+30  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PKMLC  
CK BY PKMLC  
SCALE VARIES

SHEET NUMBER  
**12**  
OF 75 SHEETS

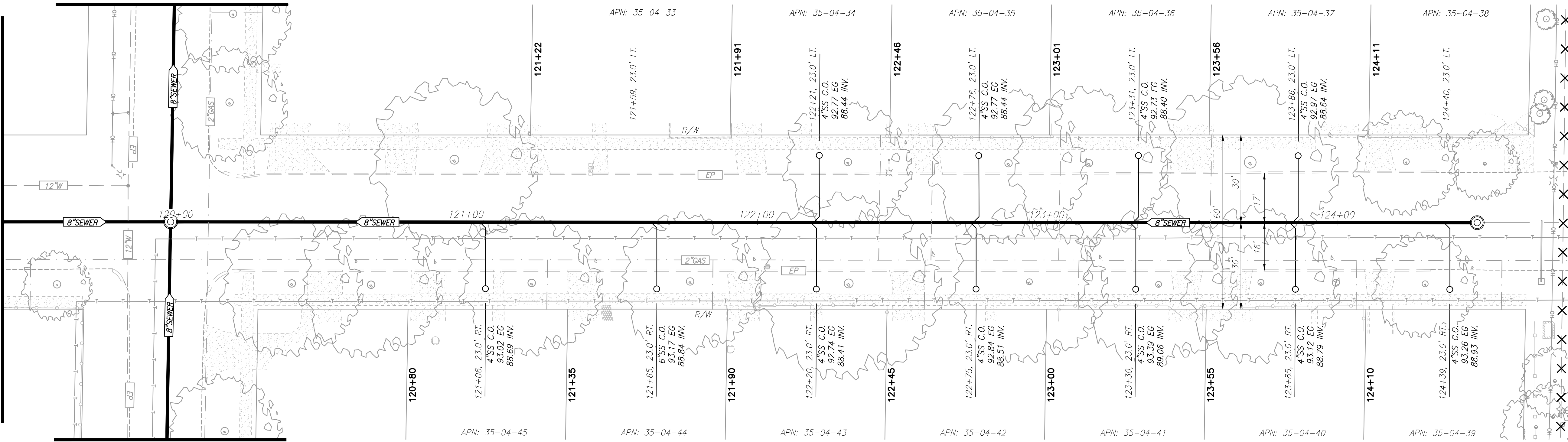
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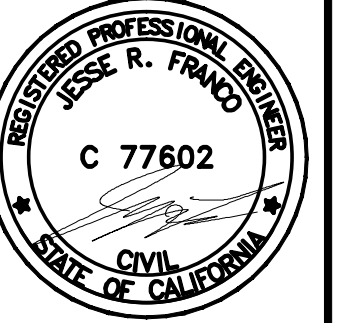
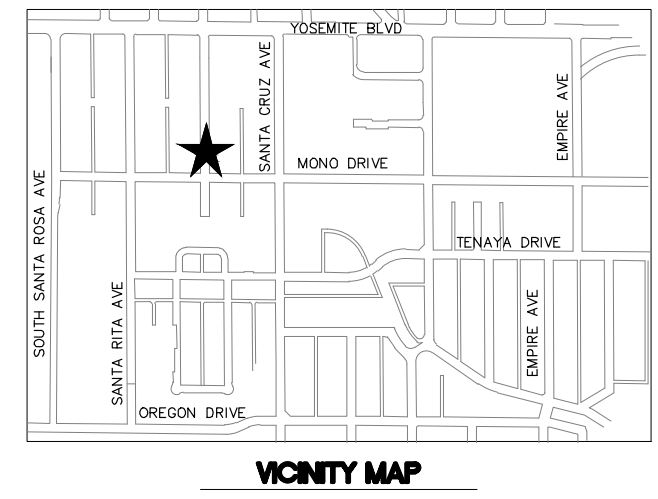
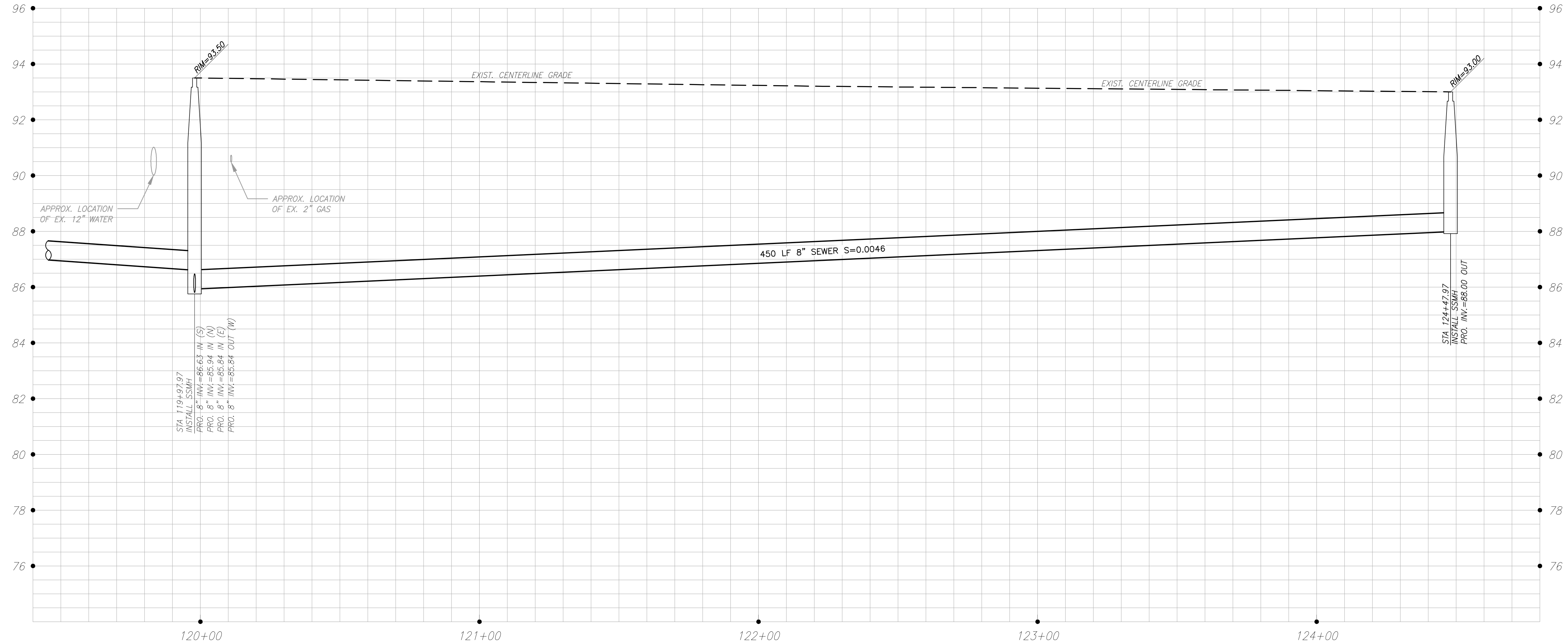
SANTA ANA SUBMAIN SOUTH - (SEE SHEET 14)

MONO MAIN  
(SEE SHEET 5)



MONO MAIN  
(SEE SHEET 6)

SANTA ANA AVE

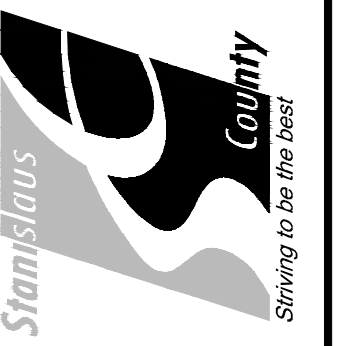


PREPARED UNDER THE DIRECTION OF:

NO	DESCRIPTIONS	DATE	APPROVED



**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



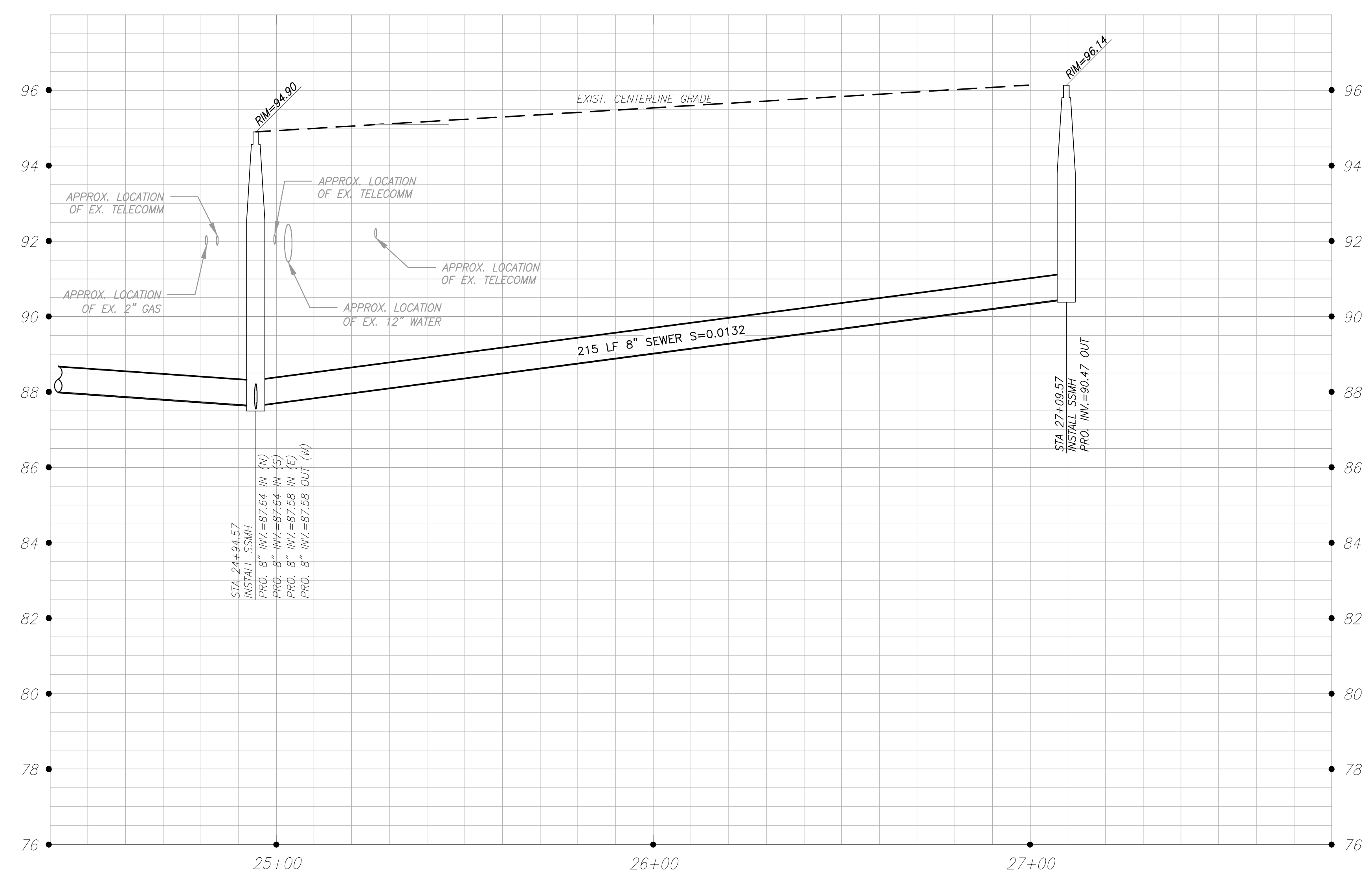
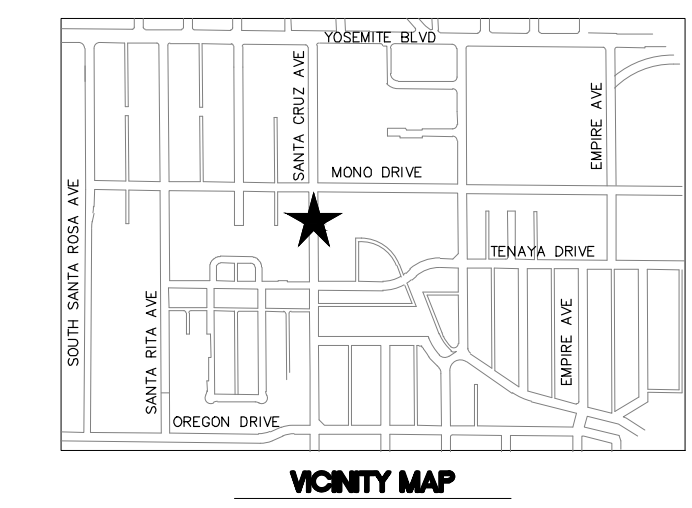
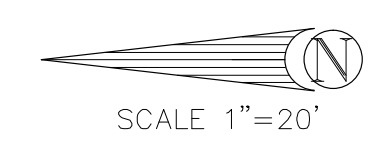
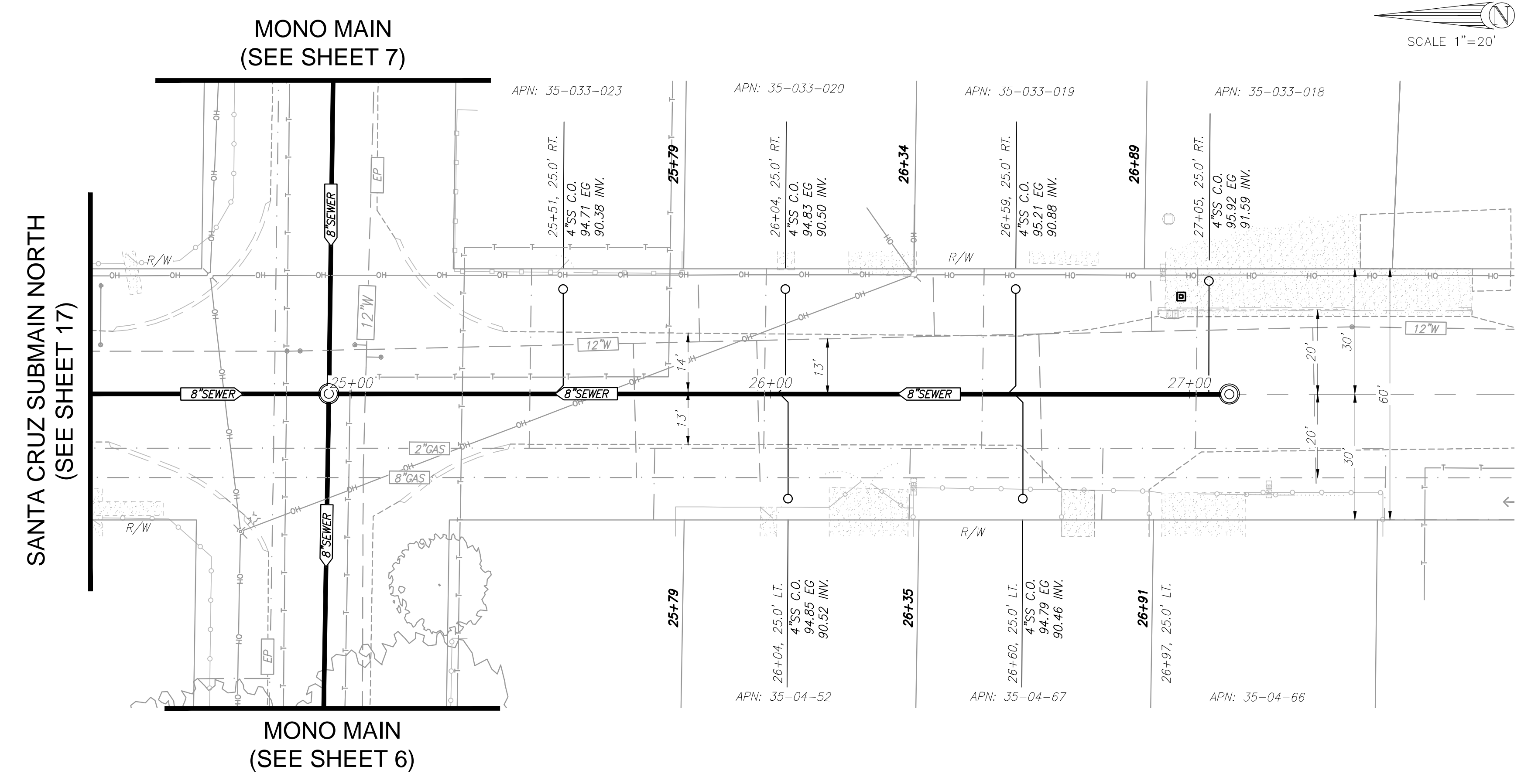
SANTA ANA AVENUE  
STA. 119+98 TO STA. 124+48  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK&LC  
CK BY PK&LC  
SCALE VARIES

SHEET NUMBER  
**15**  
OF 75 SHEETS

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C:\Users\pkmlc\OneDrive\Documents\Projects\2016\271216\_06\_17\_Mono\_Drive\_MSR.dwg  
 27, 2016, 12:40pm



PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED

**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



**S SANTA CRUZ AVENUE**  
 STA. 24+95 TO STA. 27+00

**AIRPORT NEIGHBORHOOD**  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO: UPPSWR01  
 DATE: 06/07/2016  
 DR BY: PKMLC  
 CK BY: PKMLC  
 SCALE: VARIES

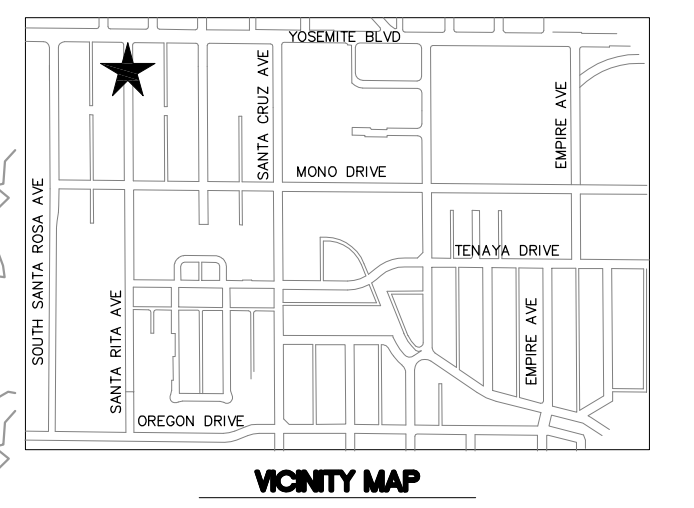
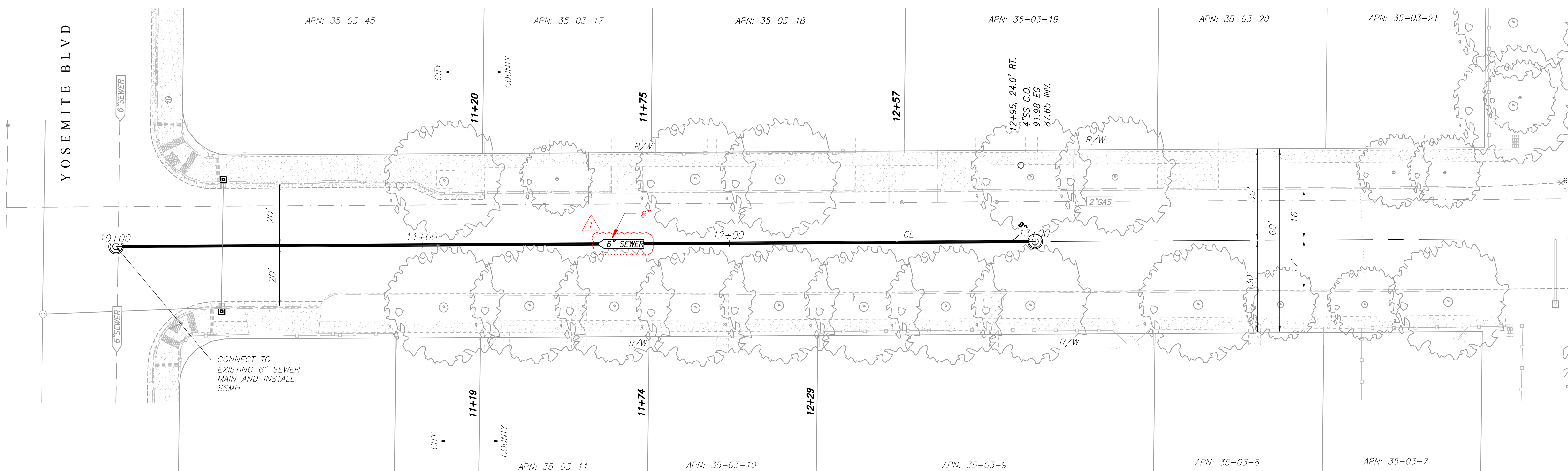
SHEET NUMBER  
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OF 75 SHEETS

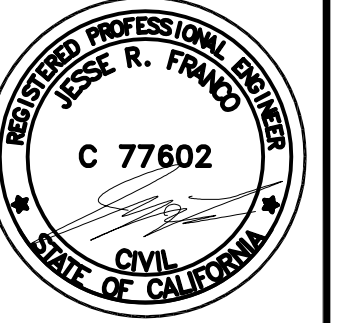
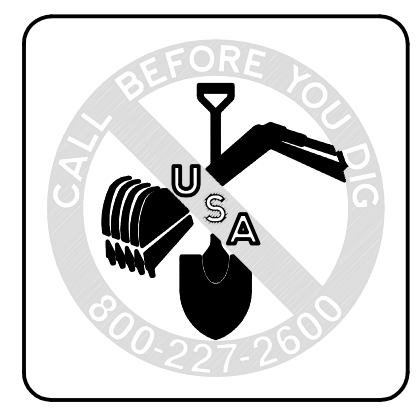
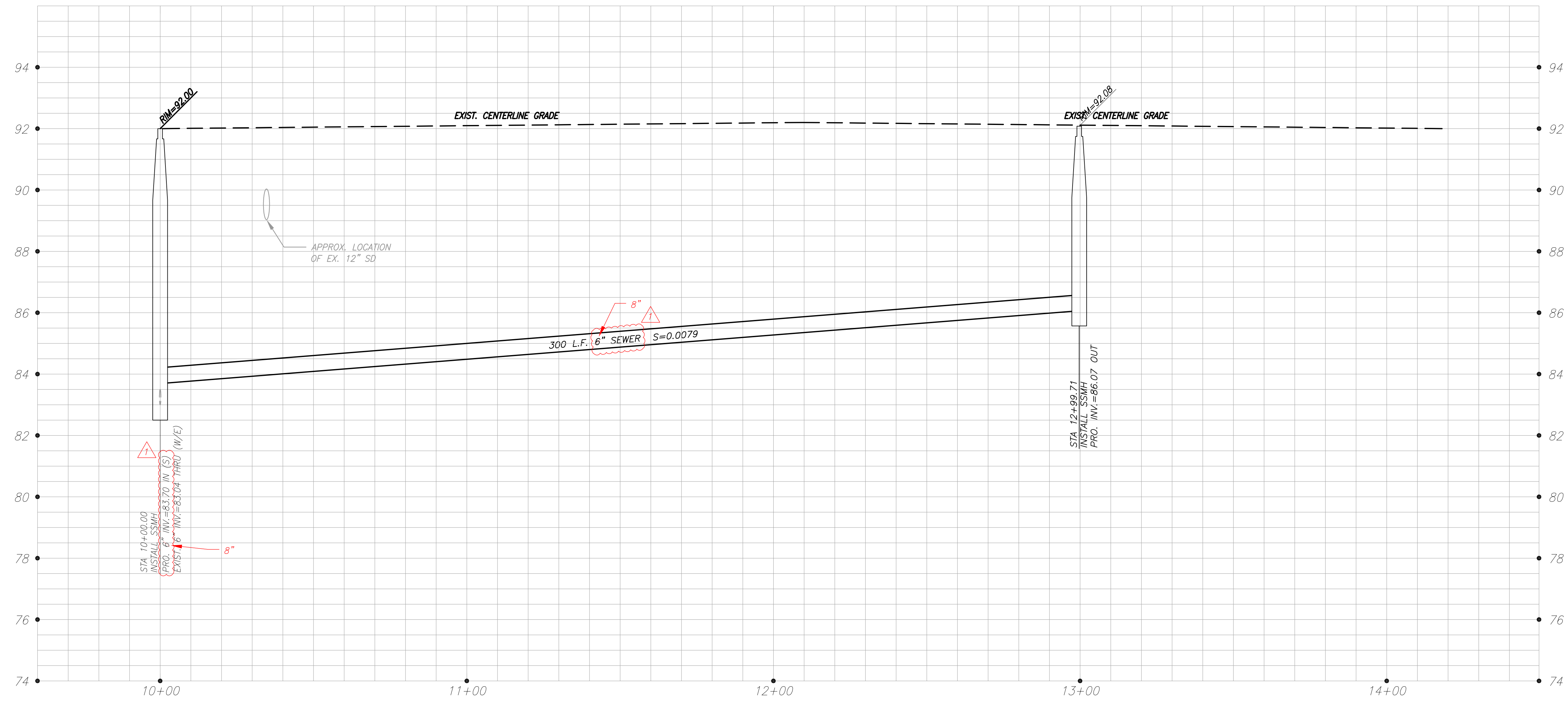




NOTE: PRIOR TO WORKING ON YOSEMITE BOULEVARD (STATE HIGHWAY 132), CONTRACTOR MUST VERIFY WITH ENGINEER THAT THERE IS A VALID CALTRANS ENCROACHMENT PERMIT.

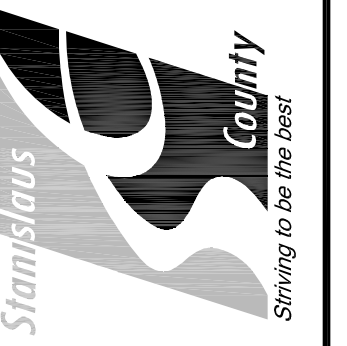


# SANTA RITA AVE



NO.	REVISIONS	DATE	APPROVED
1	CHANGE FROM 12" TO 6" SEWER		

STANISLAUS COUNTY  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



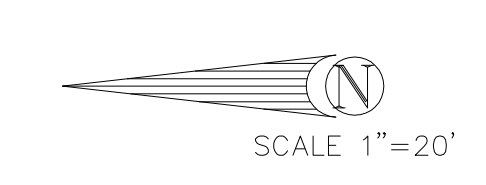
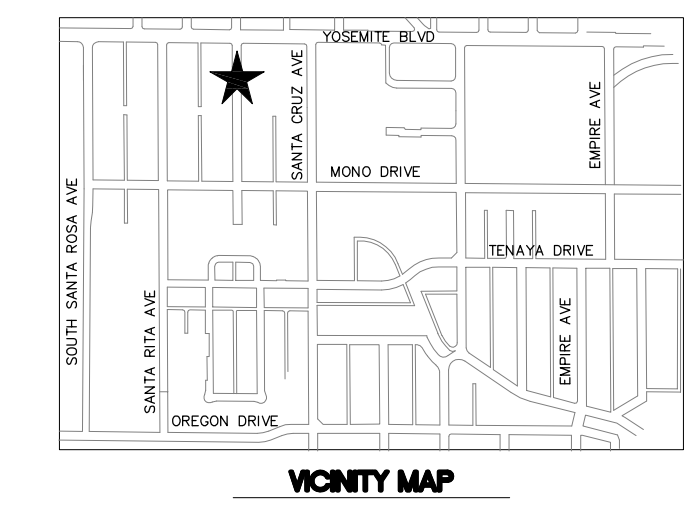
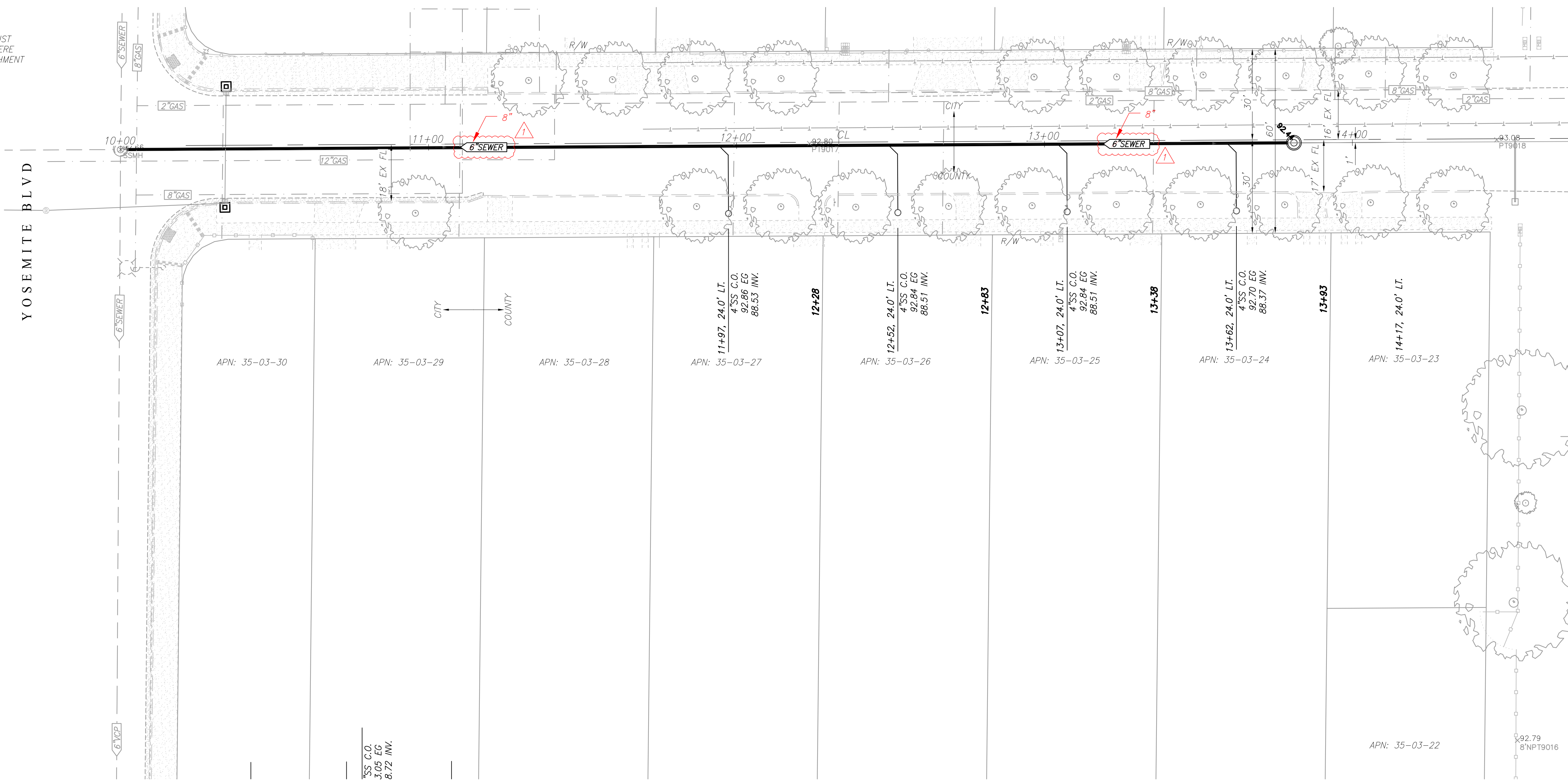
SANTA RITA AVENUE  
STA. 10+00 TO STA. 14+17  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK.M.C.  
CK BY PK.M.C.  
SCALE VARIES

SHEET NUMBER  
**18R**  
OF 75 SHEETS

Nov 22, 2016 3:13pm  
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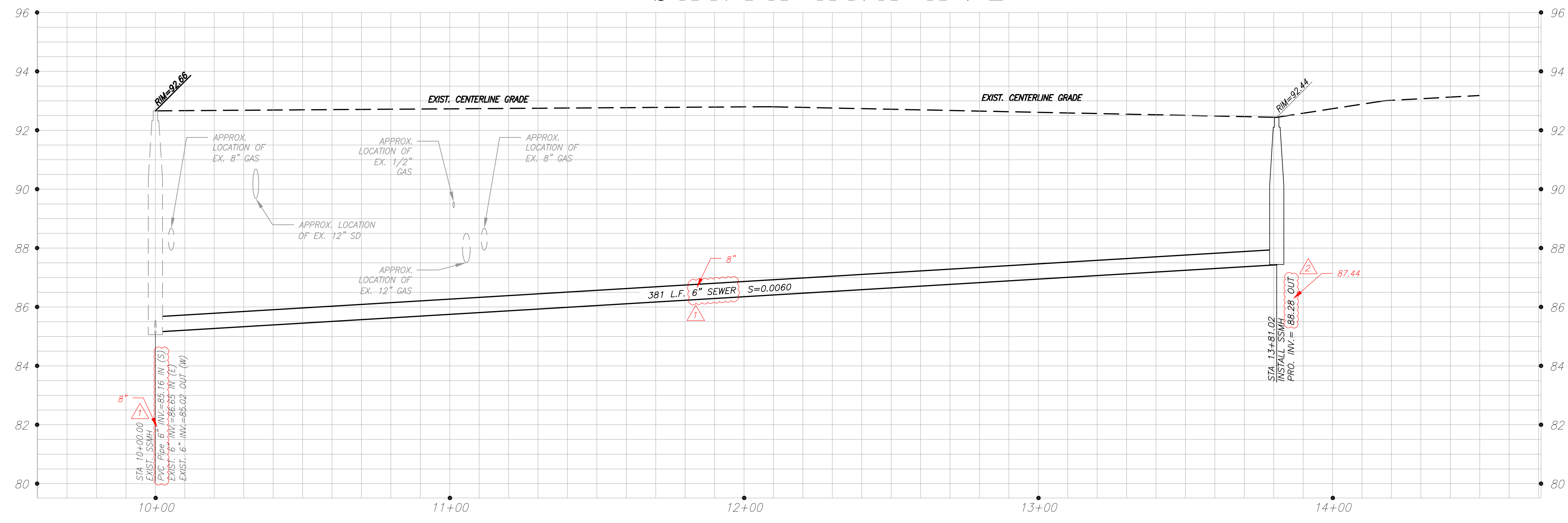
NOTE: PRIOR TO WORKING ON YOSEMITE BOULEVARD (STATE HIGHWAY 132), CONTRACTOR MUST VERIFY WITH ENGINEER THAT THERE IS A VALID CALTRANS ENCROACHMENT PERMIT.



NO.	DATE	DESCRIPTIONS	REVISIONS	DATE	APPROVED
1		CHANGE 4" SEWER TO 6" SEWER			
2		CHANGE 8" GAS TO 12" GAS			

STANISLAUS COUNTY  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358

SANTA ANA AVE



PROFILE SCALE  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL

SANTA ANA AVENUE  
 STA. 10+00 TO STA. 14+17

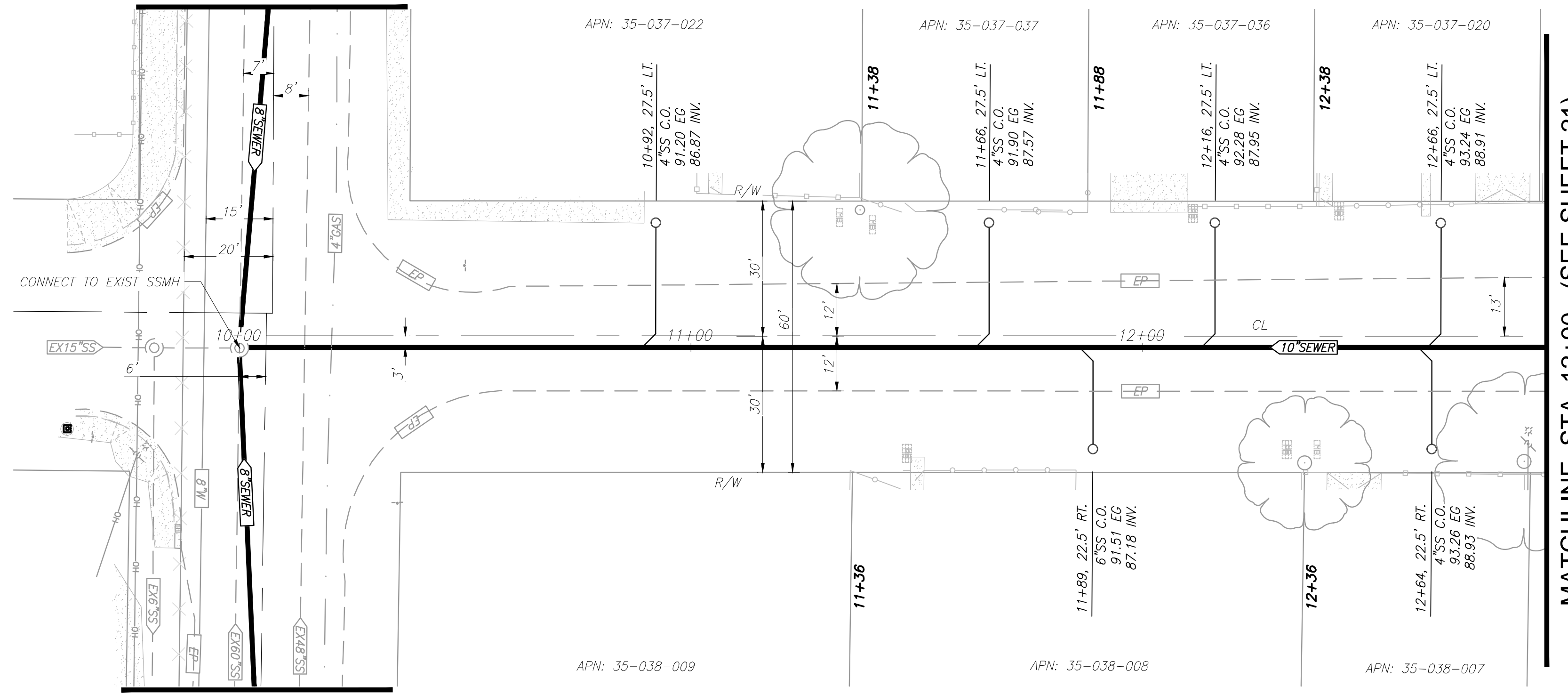
AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO UPPSWR01  
 DATE 06/07/2016  
 DR BY PK.M.C.  
 CK BY PK.M.C.  
 SCALE VARIES

SHEET NUMBER  
**19R**  
 OF 75 SHEETS

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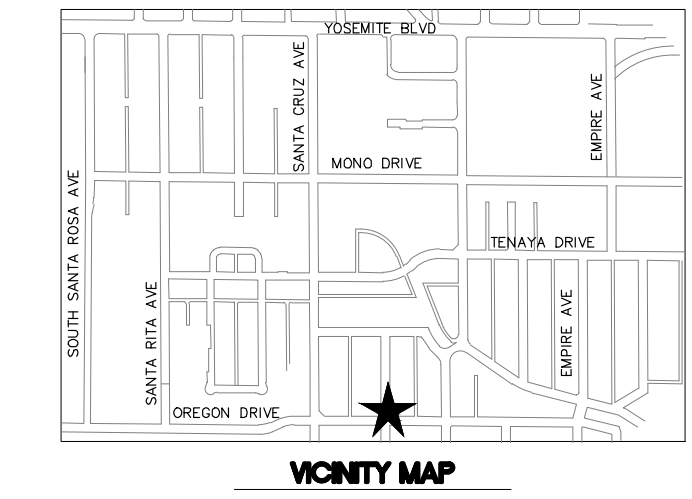
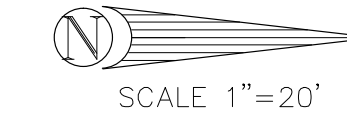
OREGON SUBMAIN WEST  
(SEE SHEET 25)



OREGON SUBMAIN EAST  
(SEE SHEET 25)

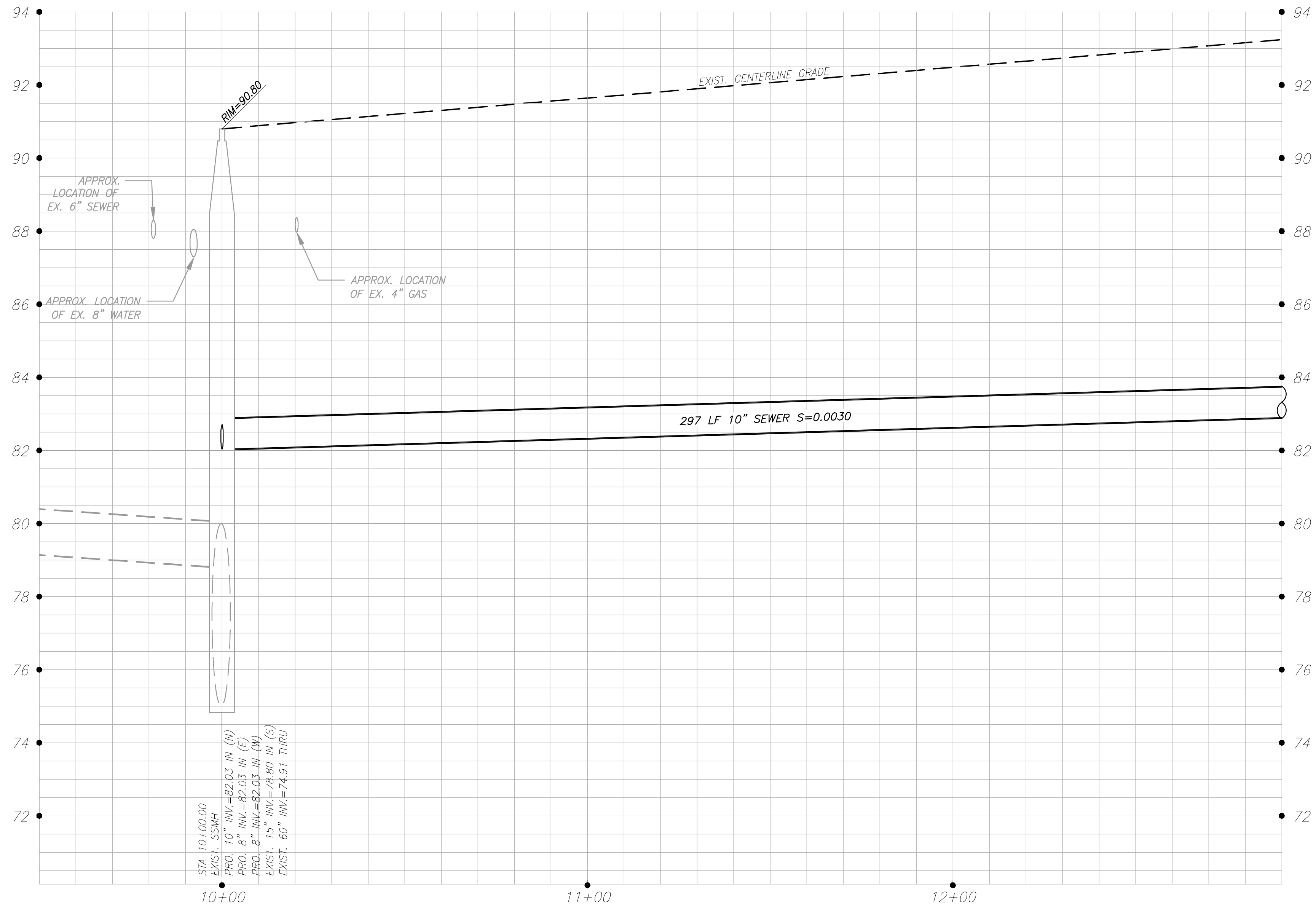
BENSON AVE

MATCHLINE STA. 12+90 - (SEE SHEET 21)

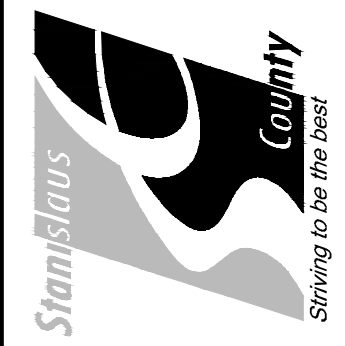


PREPARED UNDER THE DIRECTION OF:

NO	DESCRIPTIONS	DATE	APPROVED



STANISLAUS COUNTY  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



BENSON AVENUE  
STA. 10+00 TO STA. 12+90  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

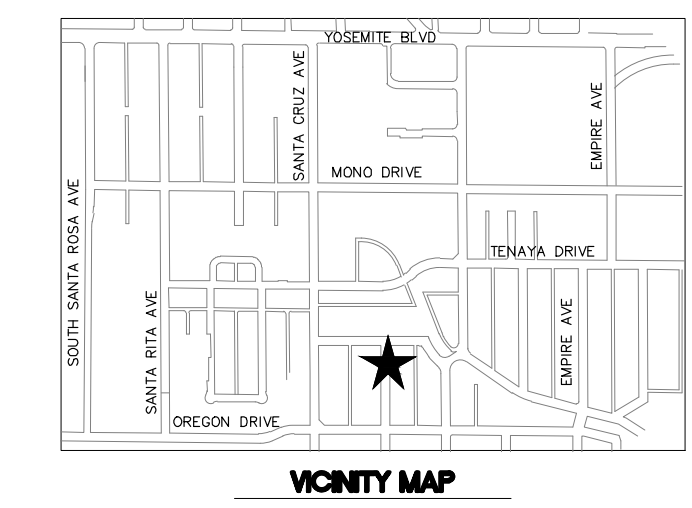
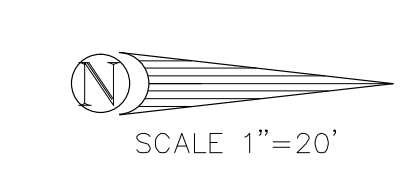
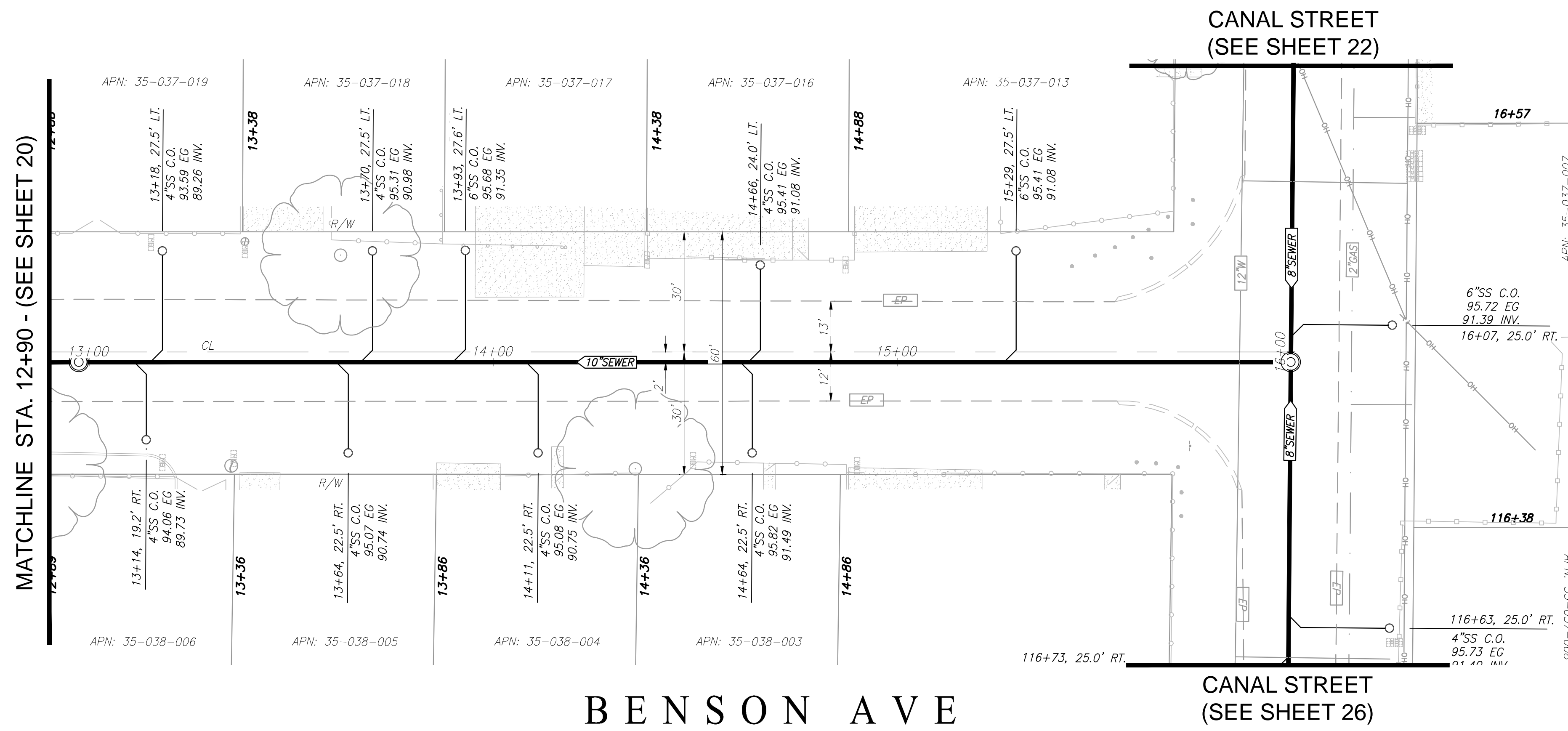
JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK/KLC  
CK BY PK/KLC  
SCALE VARIES

PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL

SHEET NUMBER  
**20**  
OF 75 SHEETS

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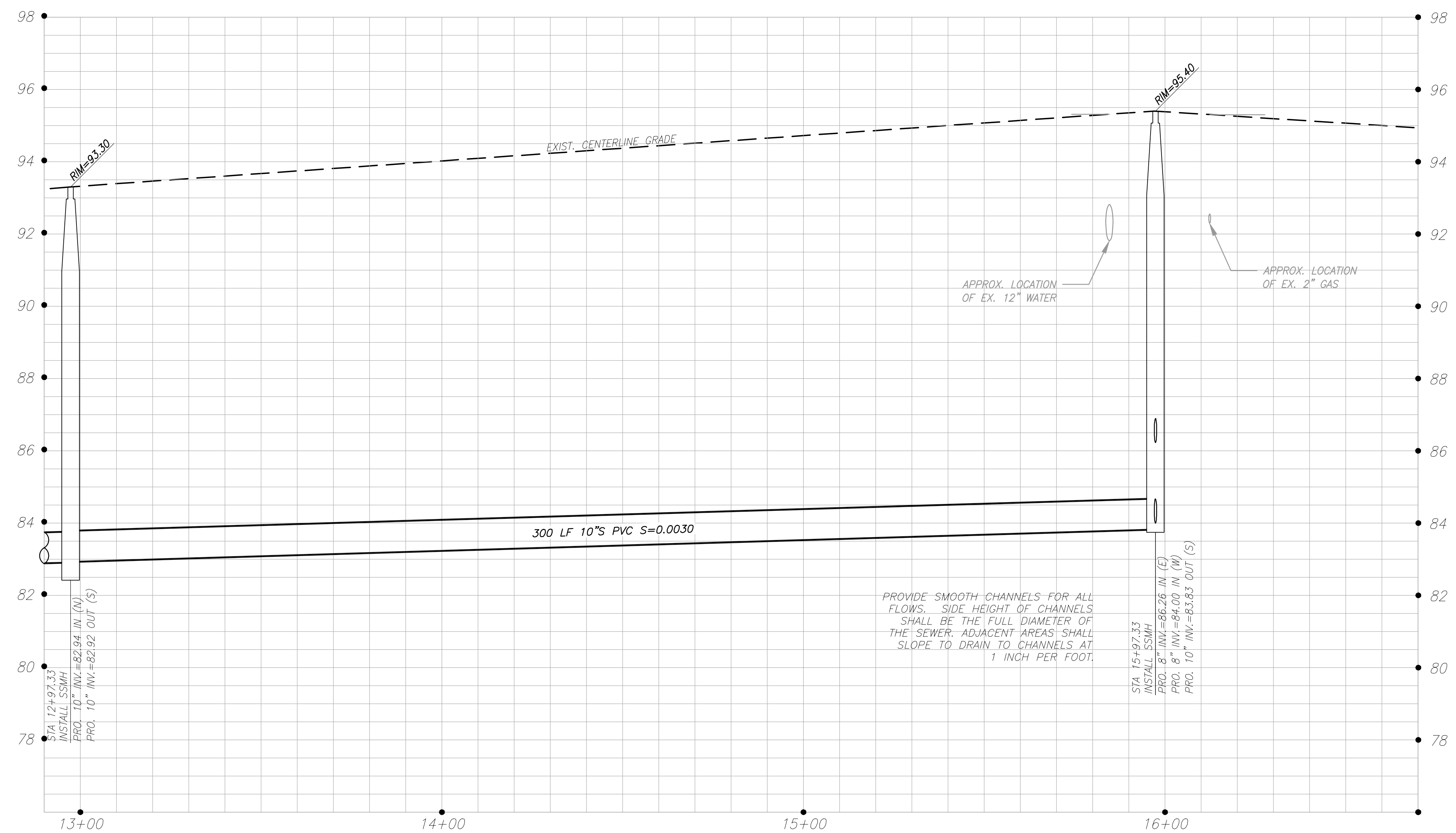
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PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED

**BENSON AVE**  
**CANAL STREET (SEE SHEET 26)**



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358

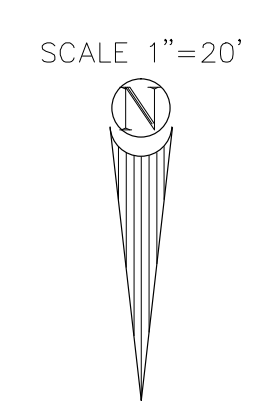
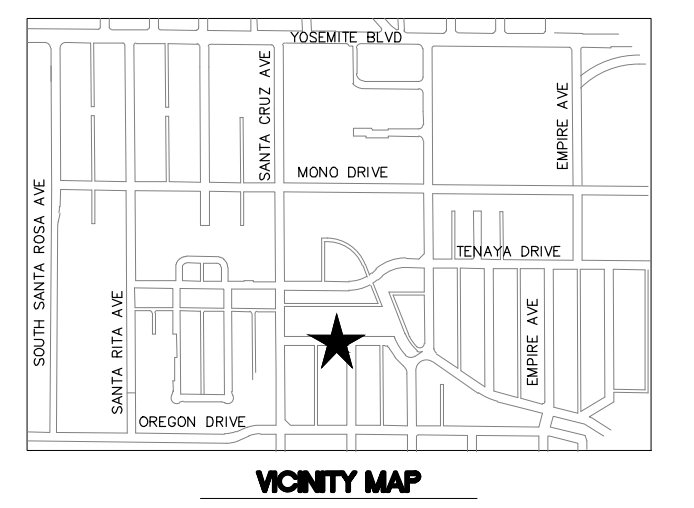
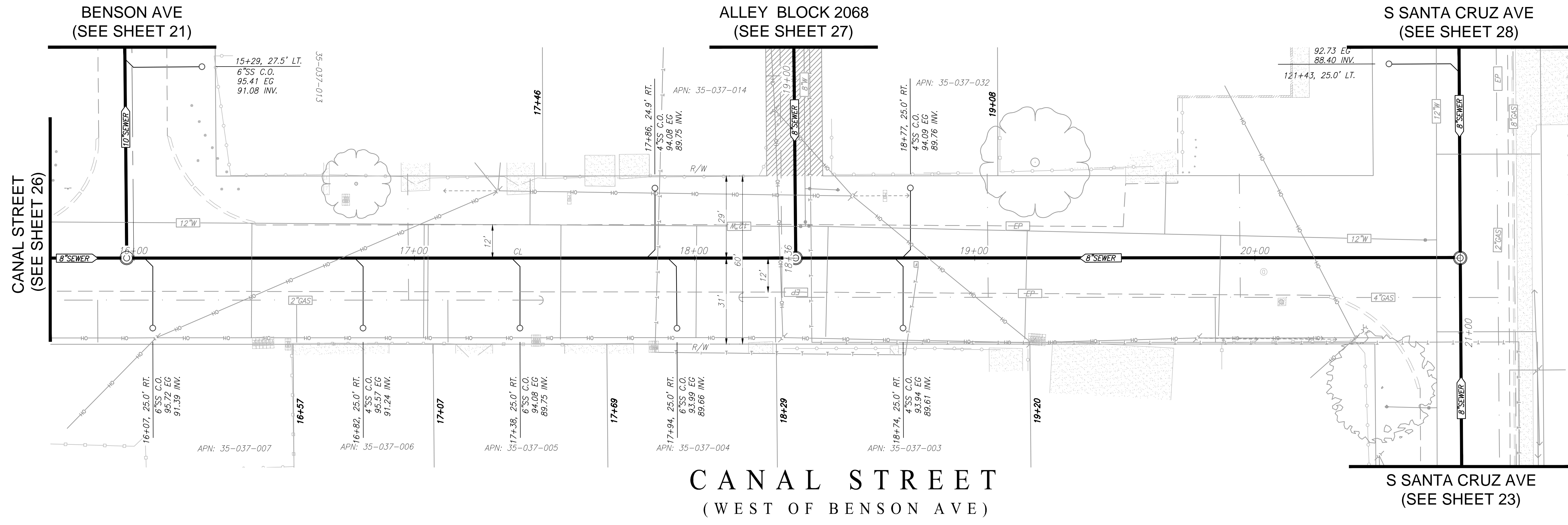


**BENSON AVENUE**  
**STA. 12+90 TO STA. 15+97**  
**AIRPORT NEIGHBORHOOD**  
**SEWER IMPROVEMENTS**  
 MODESTO, CALIFORNIA

JOB NO: UPPSWR01  
 DATE: 06/07/2016  
 DR BY: PK&LC  
 CK BY: PK&LC  
 SCALE: VARIES

SHEET NUMBER  
**21**  
 OF 75 SHEETS

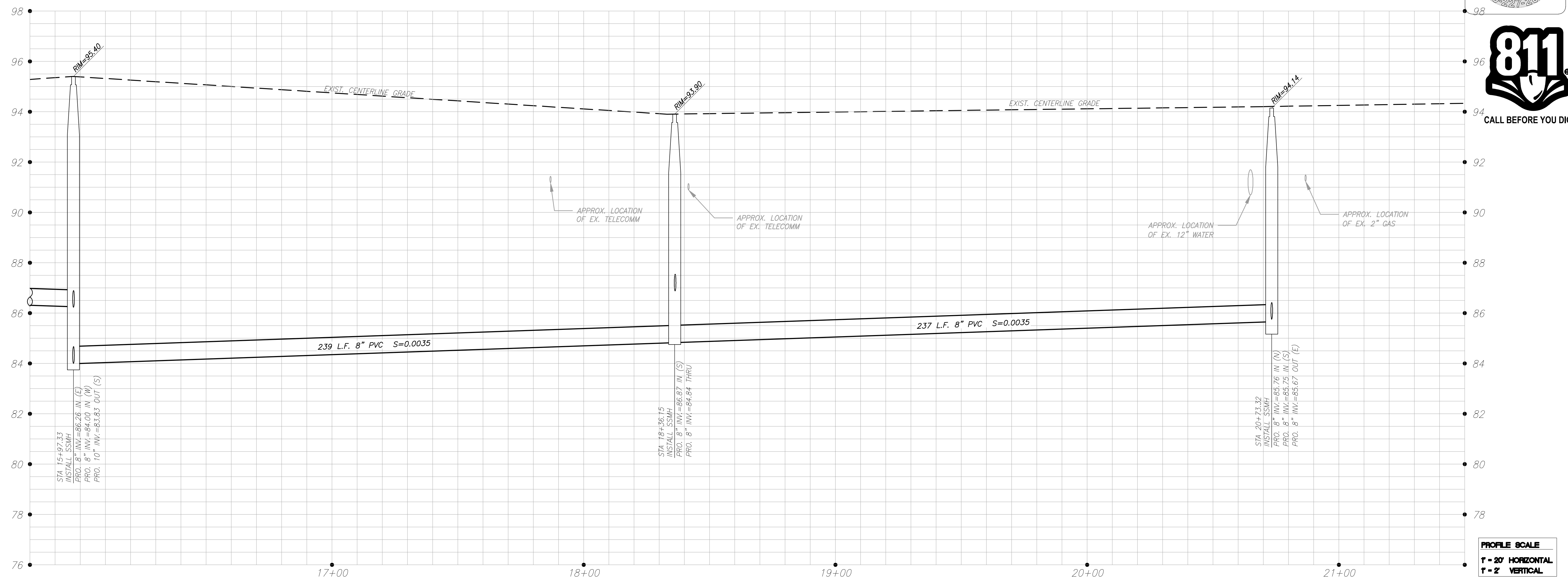
**PROFILE SCALE**  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL



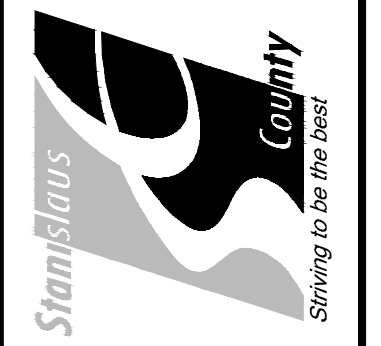
PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED

**CANAL STREET**  
(WEST OF BENSON AVE)



**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358

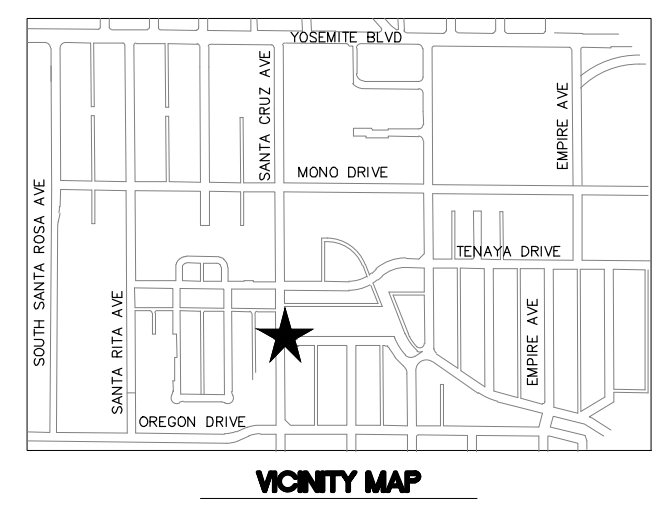
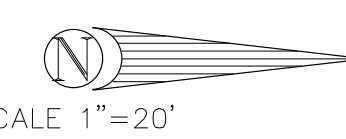
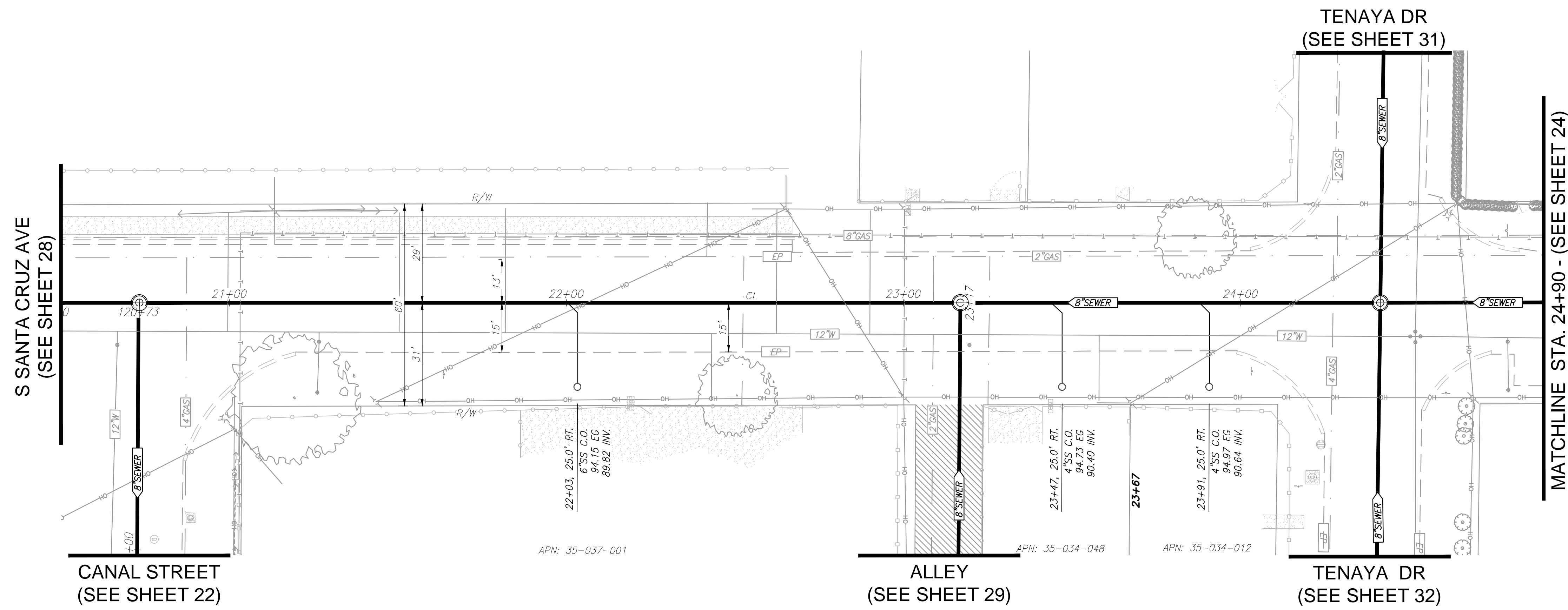


CANAL STREET  
STA. 16+50 TO STA. 20+73  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK&LC  
CK BY PK&LC  
SCALE VARIES

SHEET NUMBER  
**22**  
OF 75 SHEETS

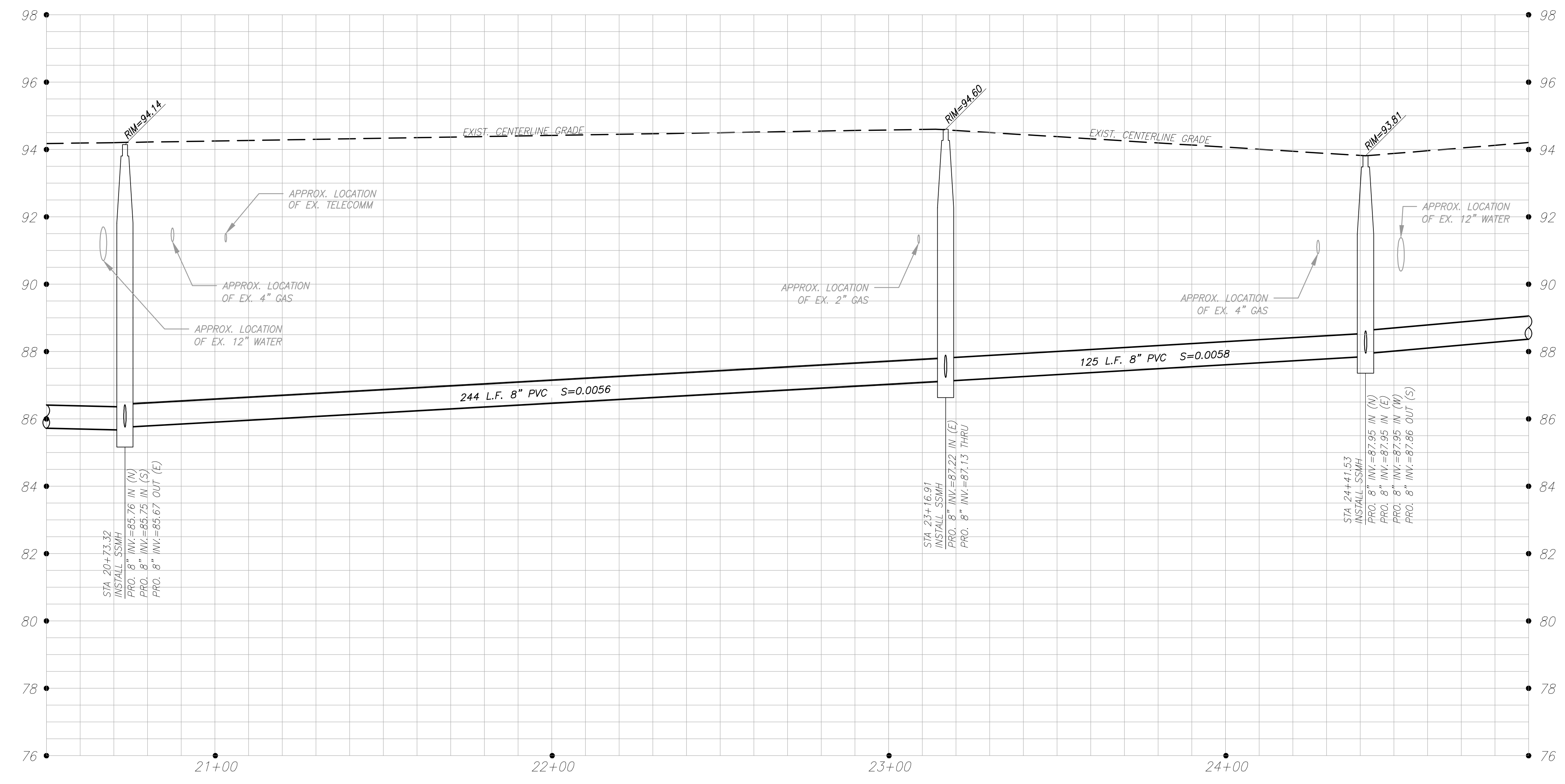
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 C:\Users\jfranco\Documents\Projects\16+50 to 20+73 - Canal Street Sewer Improvements.dwg



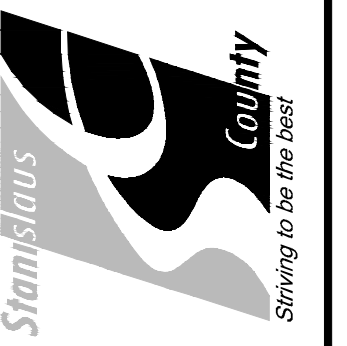
PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED

# S SANTA CRUZ AVE



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



S SANTA CRUZ AVENUE  
 STA. 20+73 TO STA. 24+90  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

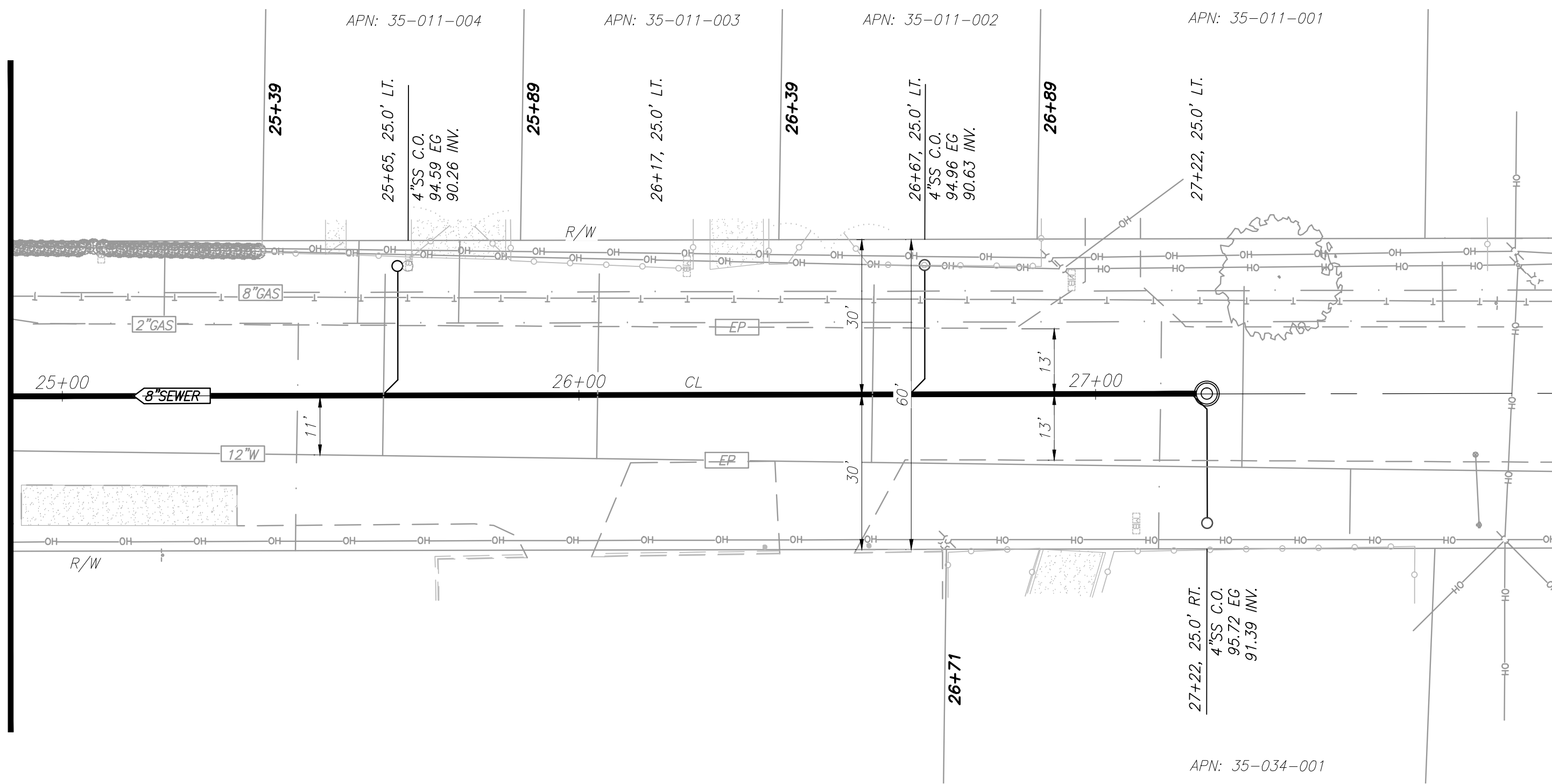
JOB NO: UPPSWR01  
 DATE: 06/07/2016  
 DR BY: PK&LC  
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 SCALE: VARIES

PROFILE SCALE  
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 1" = 2' VERTICAL

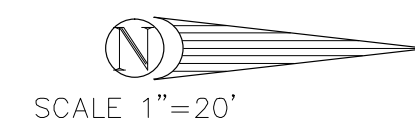
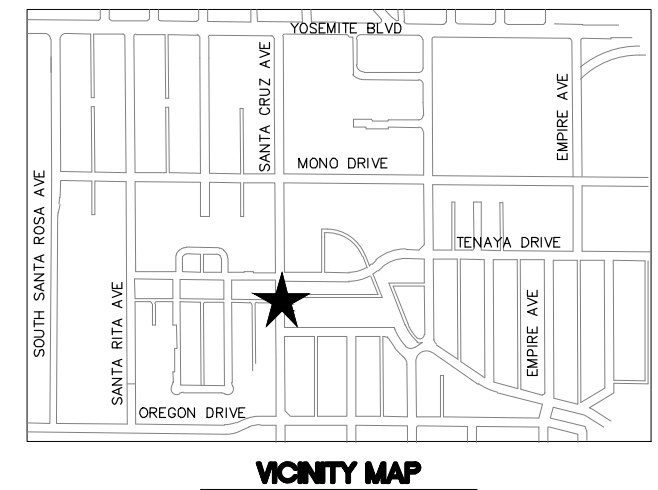
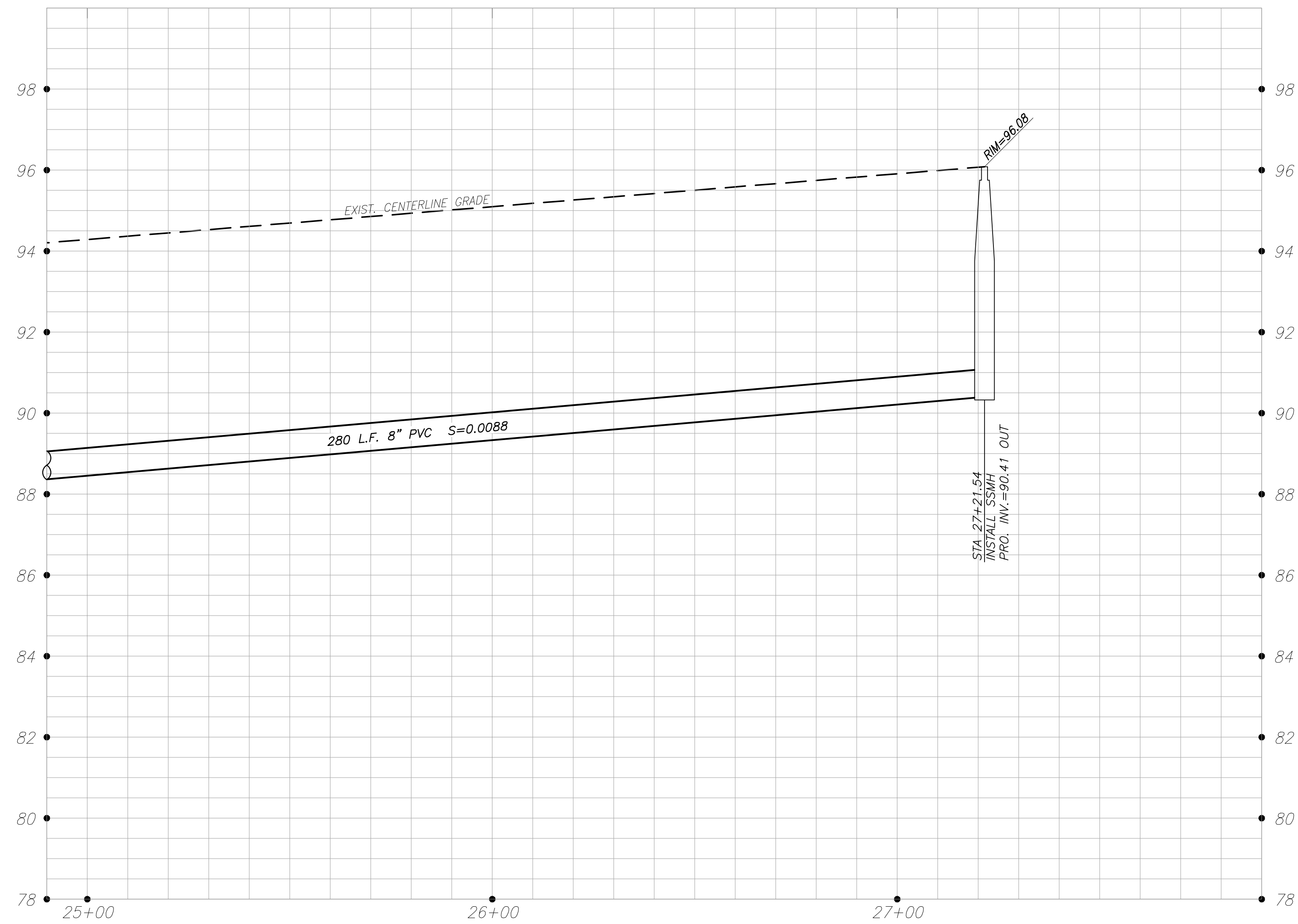
SHEET NUMBER  
**23**  
 OF 75 SHEETS

06/27/2016 11:23am C:\Users\jfranco\Documents\Projects\2016\20-14\_Brasserie\_Avenue\_Main\_and\_Submain.dwg

MATCHLINE STA. 24+90 - (SEE SHEET 23)



S SANTA CRUZ AVE



SCALE 1"=20'



PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



S. SANTA CRUZ AVENUE  
 STA. 24+90 TO STA. 27+22  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO. UPPSWR01  
 DATE 06/07/2016  
 DR BY PK&LC  
 CK BY PK&LC  
 SCALE VARIES

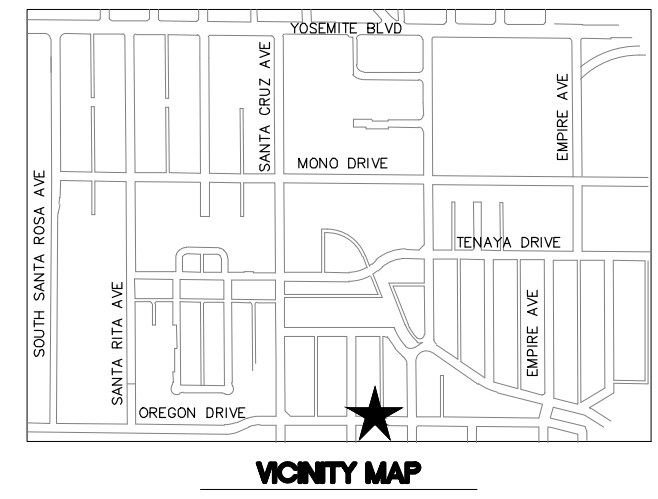
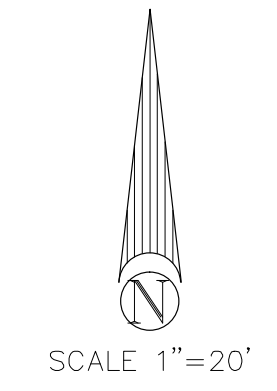
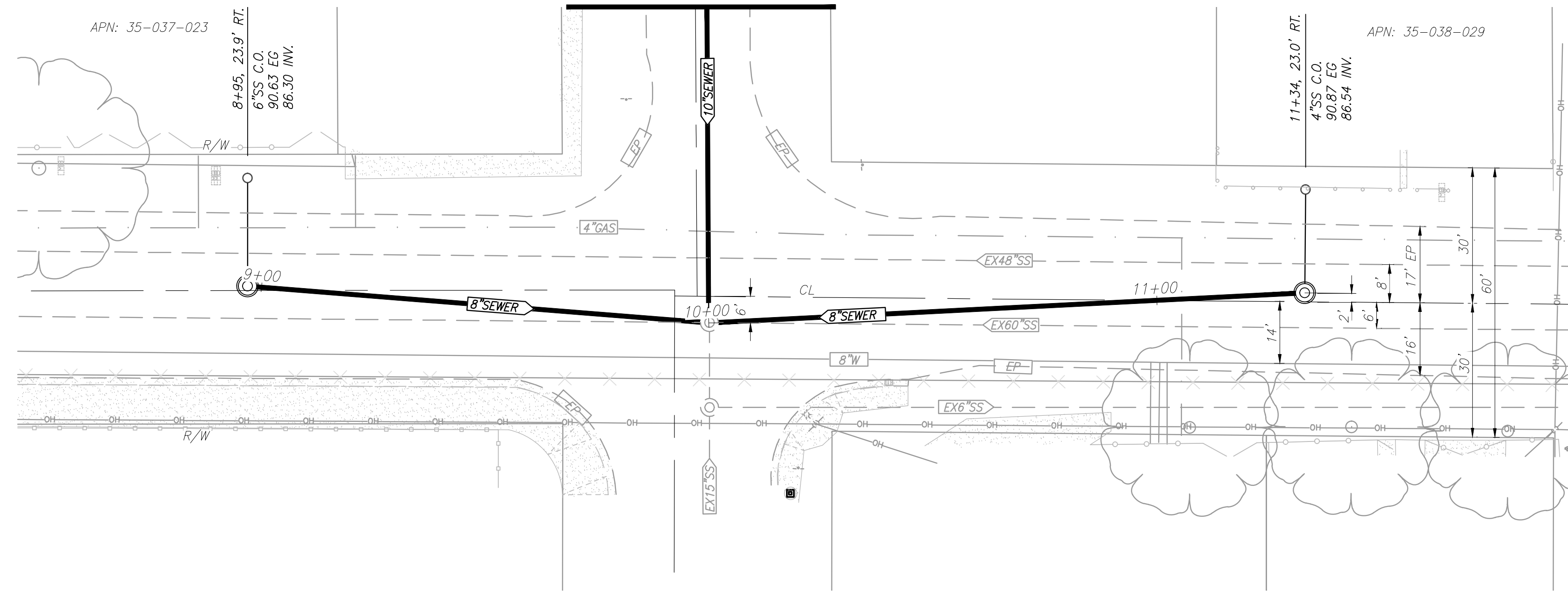
PROFILE SCALE  
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 1" = 2' VERTICAL

SHEET NUMBER  
**24**  
 OF 75 SHEETS

C:\Users\jfranco\Documents\Projects\2016\2016-14\_Branco\_Avenue\_Main\_and\_Submain.dwg  
 27, 2016, 11:23am



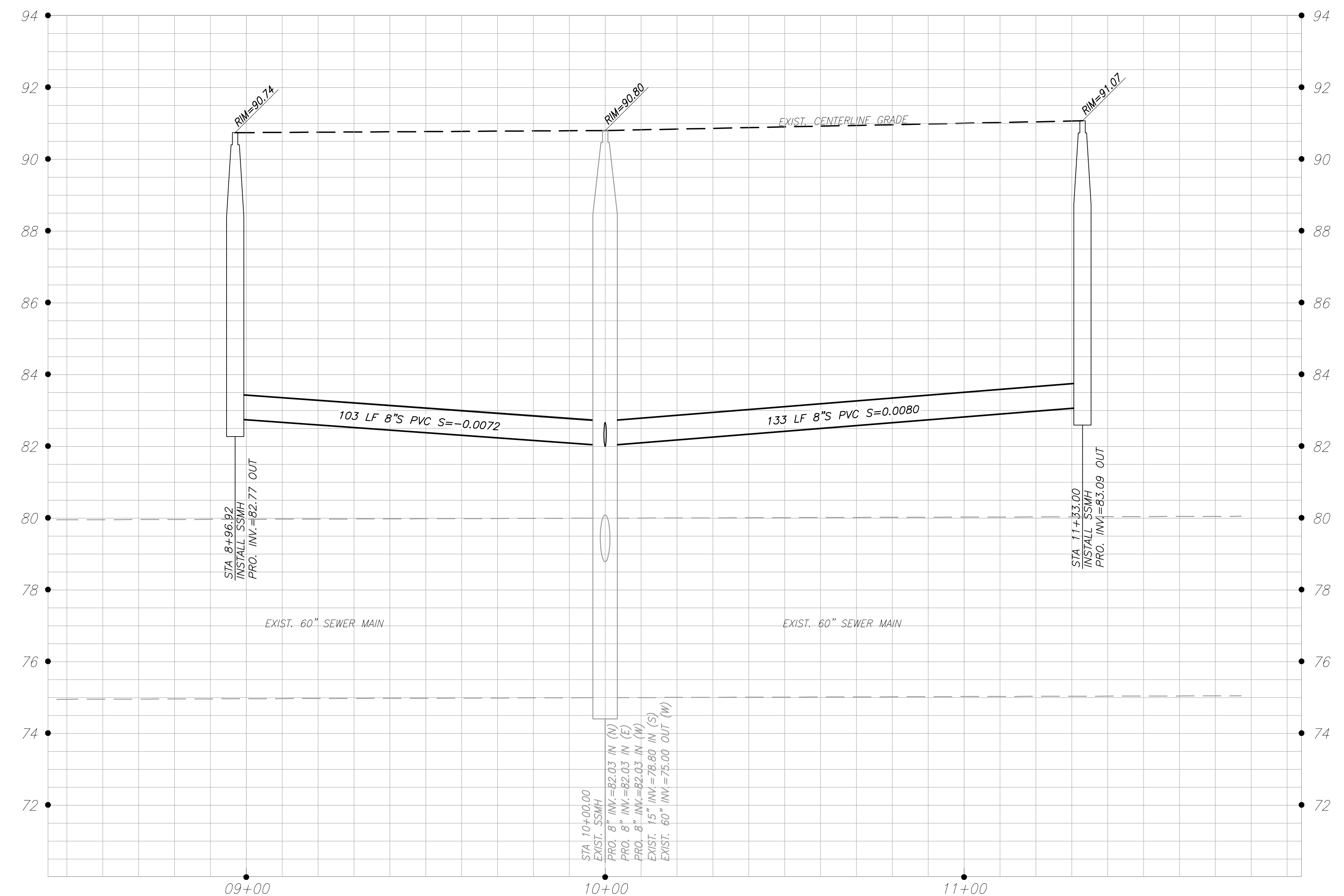
BENSON AVENUE MAIN  
(SEE SHEET 20)



PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED

OREGON DRIVE



**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358

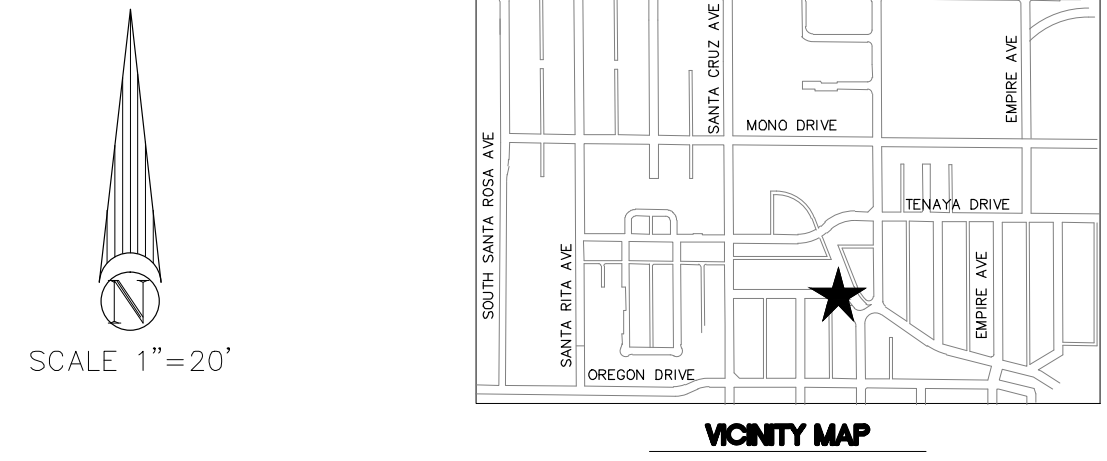
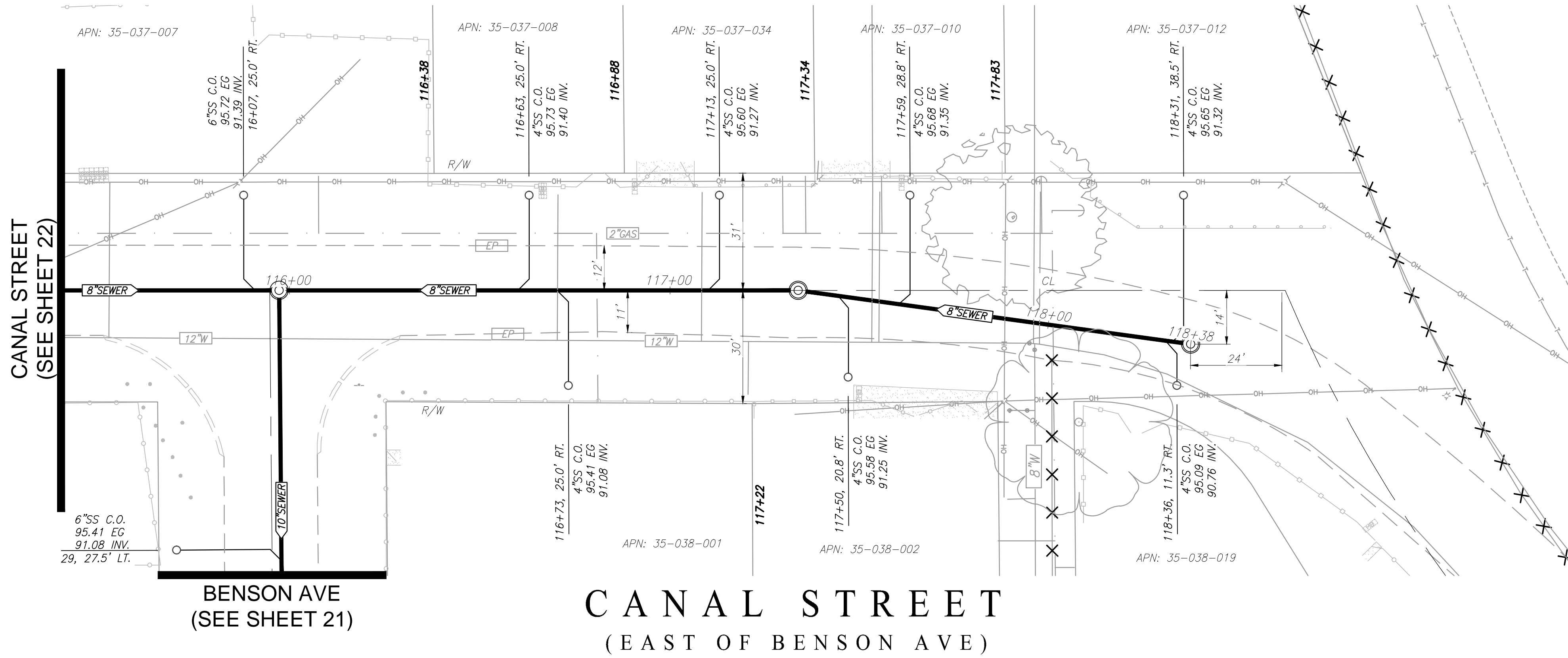
OREGON DRIVE  
STA. 08+97 TO STA. 11+33  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PKM/C  
CK BY PKM/C  
SCALE VARIES

SHEET NUMBER  
**25**  
OF 75 SHEETS

PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL

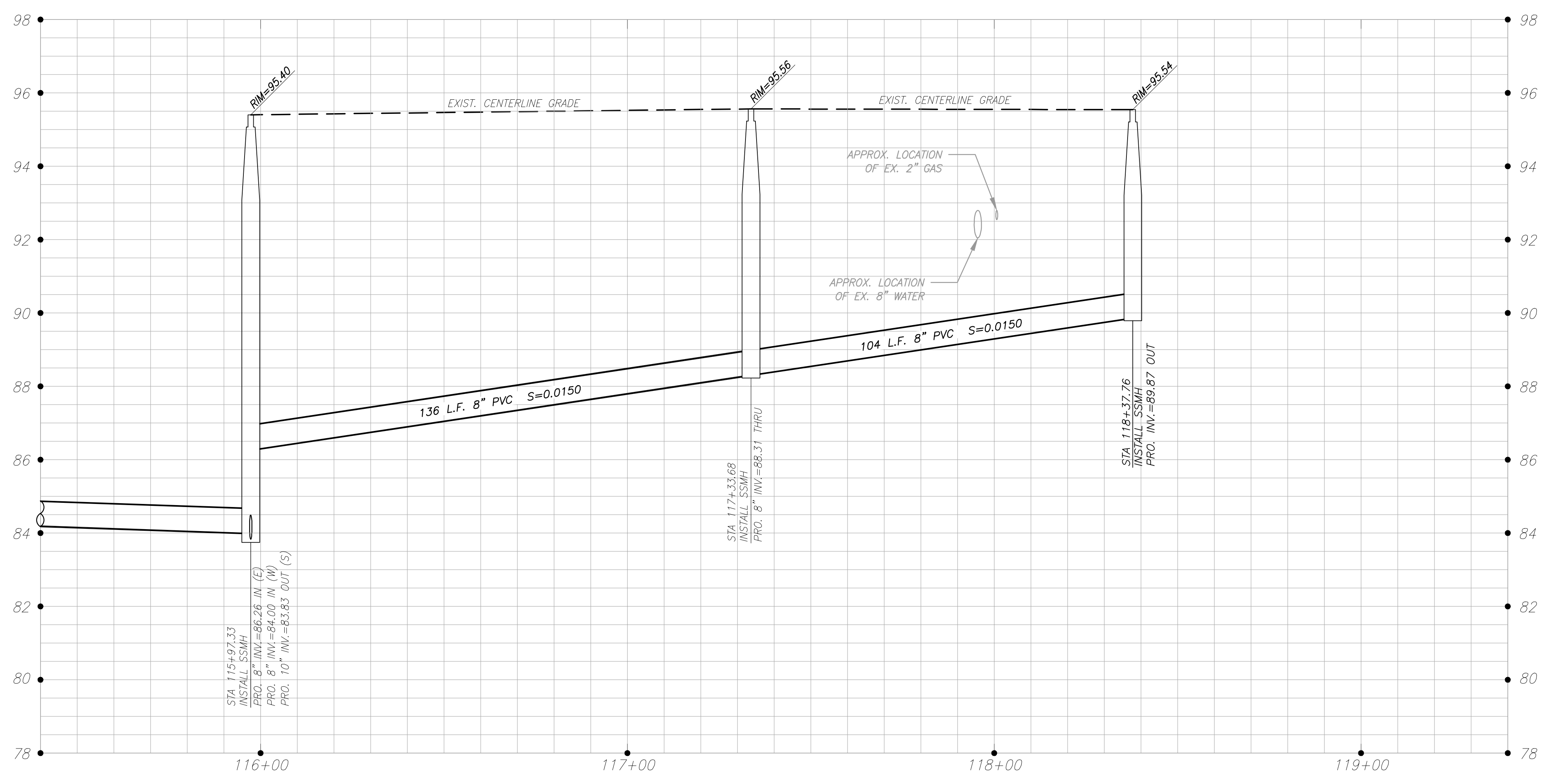
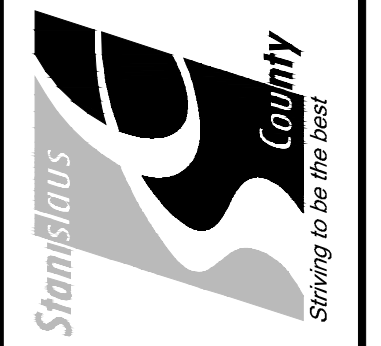
06/27/2016 11:24am C:\Users\jfranco\Documents\Projects\Benson Ave\Benson Ave.dwg



PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED

**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



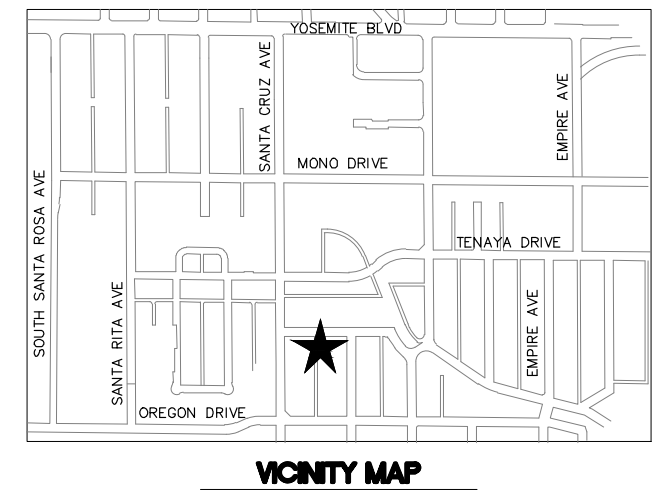
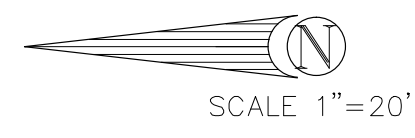
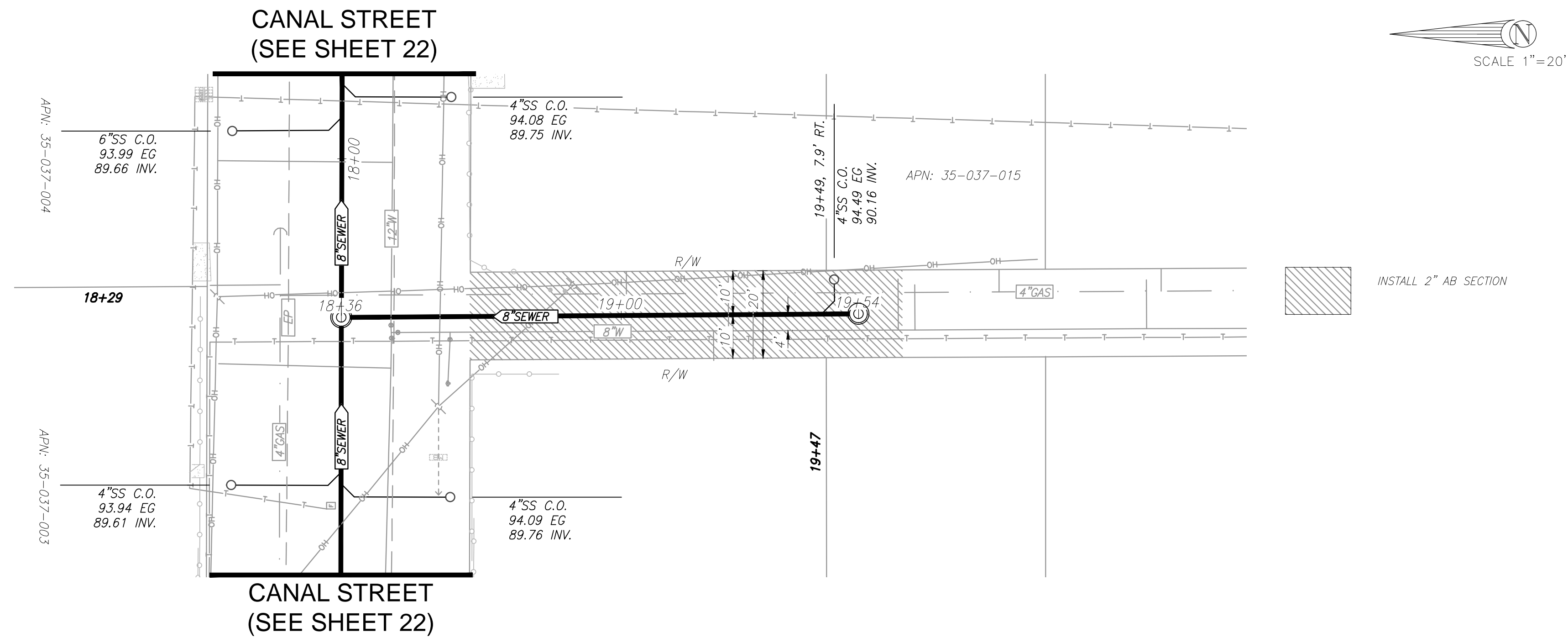
**PROFILE SCALE**  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL

CANAL STREET  
 STA. 115+97 TO STA. 118+38  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

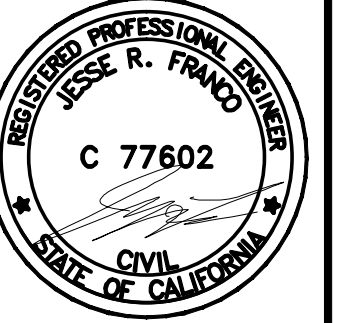
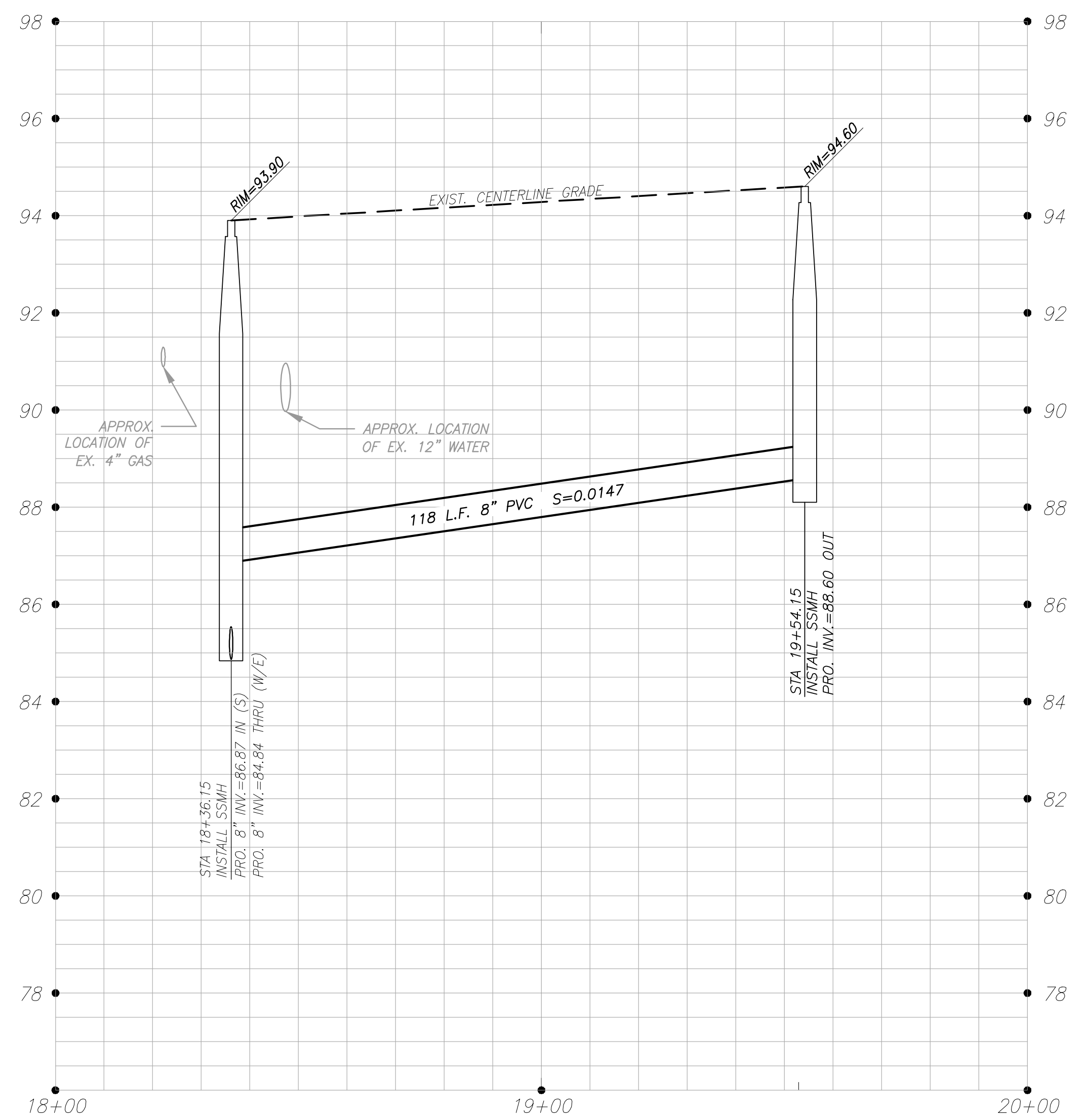
JOB NO. UPPSWR01  
 DATE 06/07/2016  
 DR BY PK/KLC  
 CK BY PK/KLC  
 SCALE VARIES

SHEET NUMBER  
**26**  
 OF 75 SHEETS

06/27/2016 11:24am  
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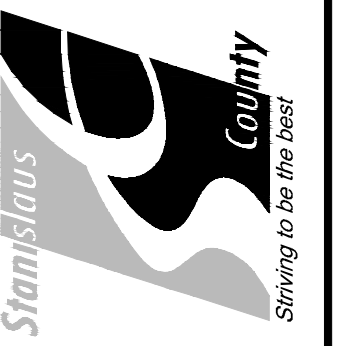
## ALLEY BLOCK 2068 BETWEEN BENSON AVE AND SANTA CRUZ AVE



PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED

**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



BLOCK 2068 ALLEY  
STA. 18+36 TO STA. 19+54  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO. UPPSWR01  
DATE 06/07/2016  
DR BY PK.M.C.  
CK BY PK.M.C.  
SCALE VARIES

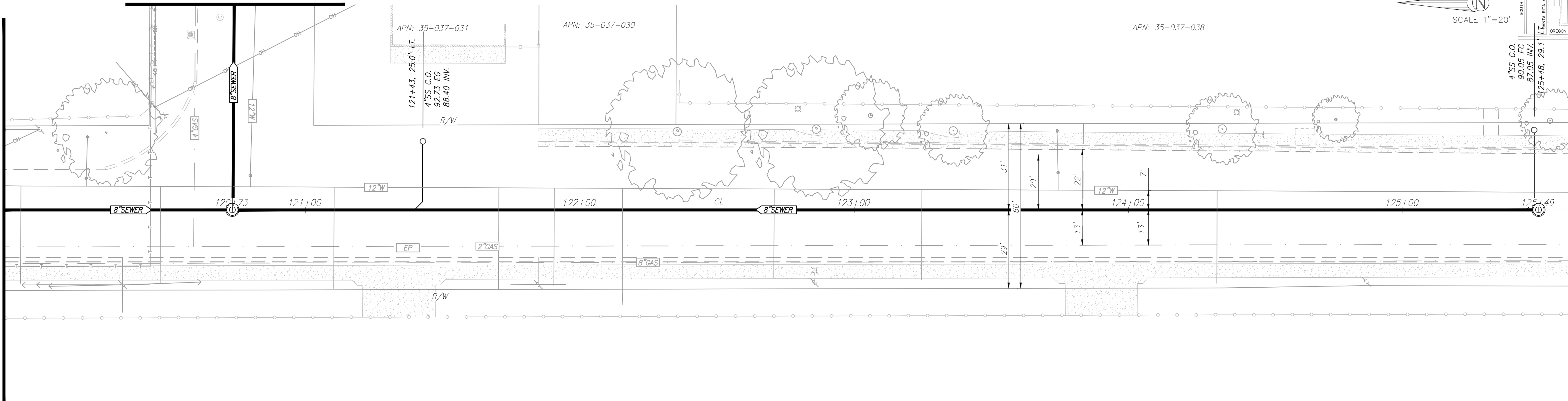
**PROFILE SCALE**  
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1" = 2' VERTICAL

SHEET NUMBER  
**27**  
OF 75 SHEETS

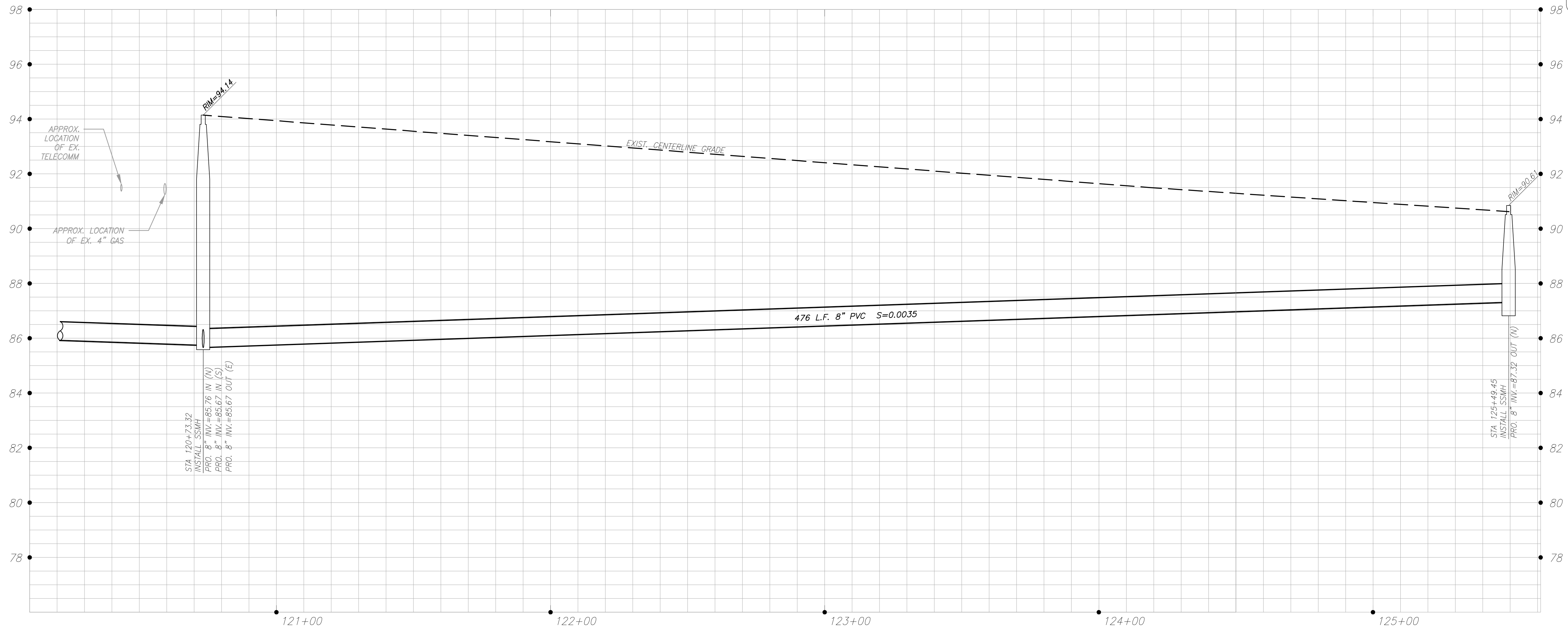
C:\Users\jfranco\Documents\Projects\2016\2016-14\_Benson\_Avenue\_Main\_and\_Submission.dwg  
 27, 2016, 1:25pm

S SANTA CRUZ AVENUE  
(SEE SHEET 23)

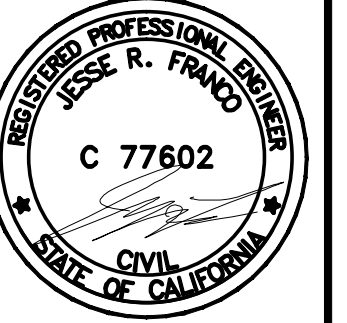
CANAL STREET  
(SEE SHEET 22)



S SANTA CRUZ AVE



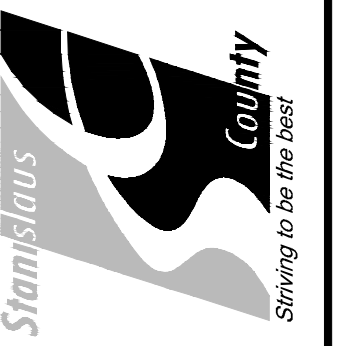
PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL



PREPARED UNDER THE DIRECTION OF:

NO.	REVISIONS	DATE	APPROVED

**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358

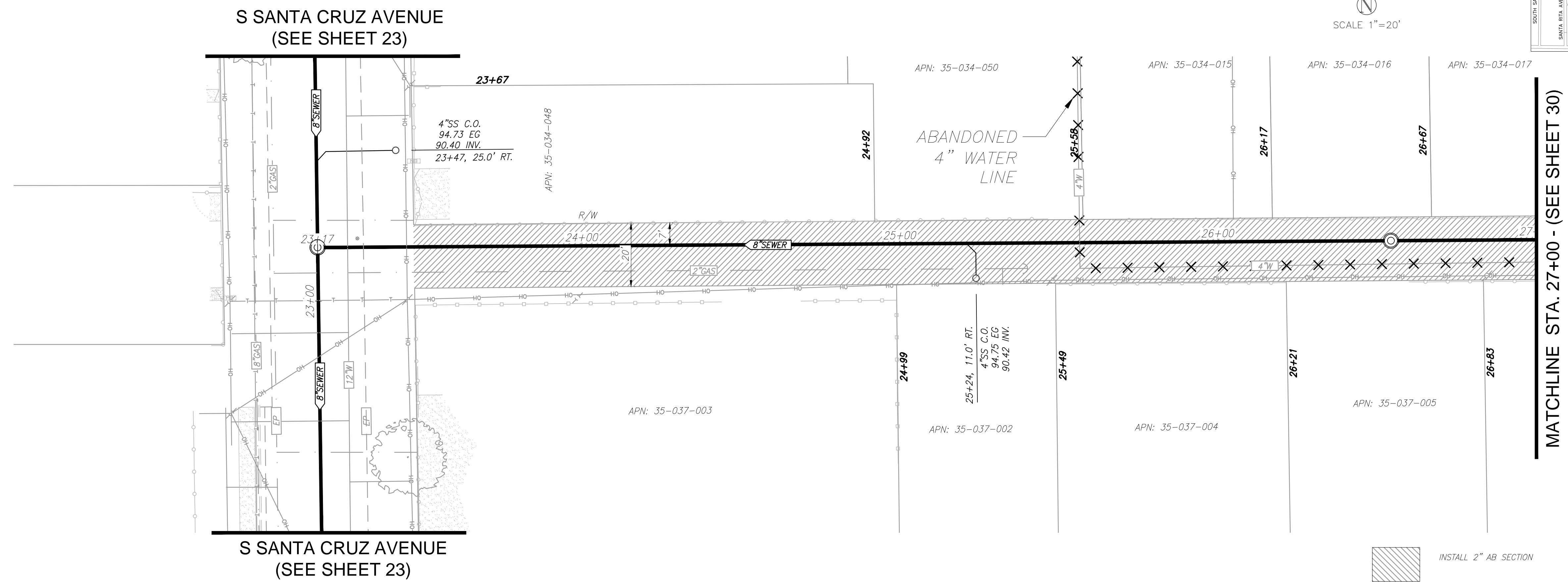
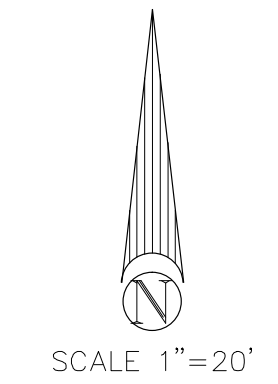
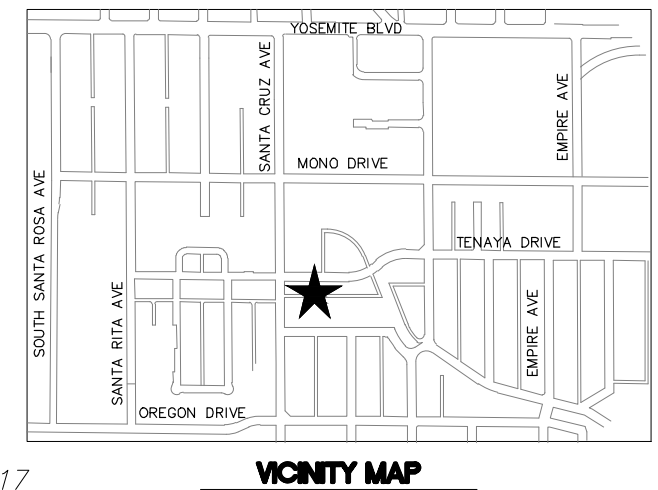
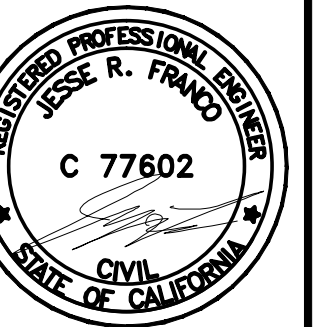


S SANTA CRUZ AVENUE  
STA. 120+73 TO STA. 124+18  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

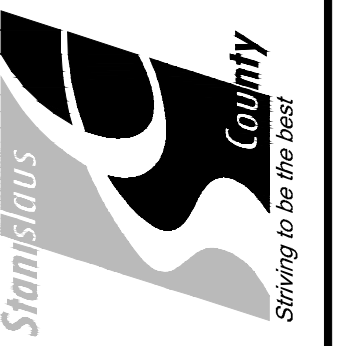
JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK&LC  
CK BY PK&LC  
SCALE VARIES

SHEET NUMBER  
**28**  
OF 75 SHEETS

04/27/2016 11:25pm  
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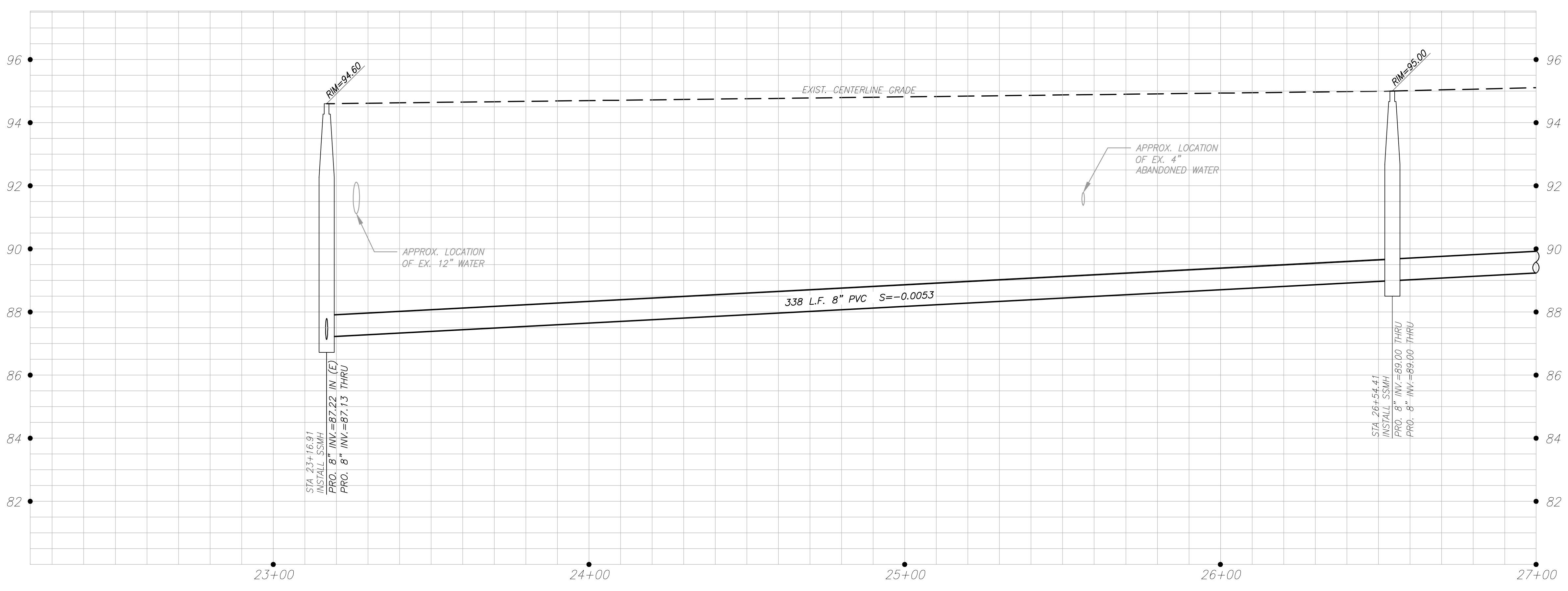
**BLOCK 2066 ALLEY**  
(EAST OF S SANTA CRUZ AVE)



**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358

PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED



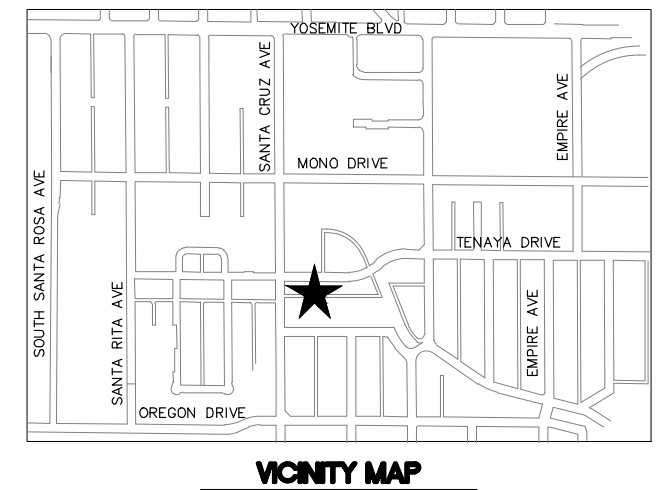
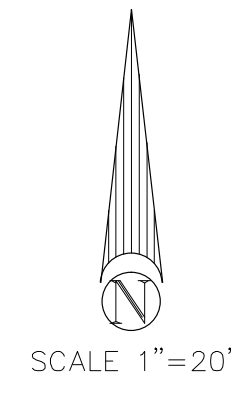
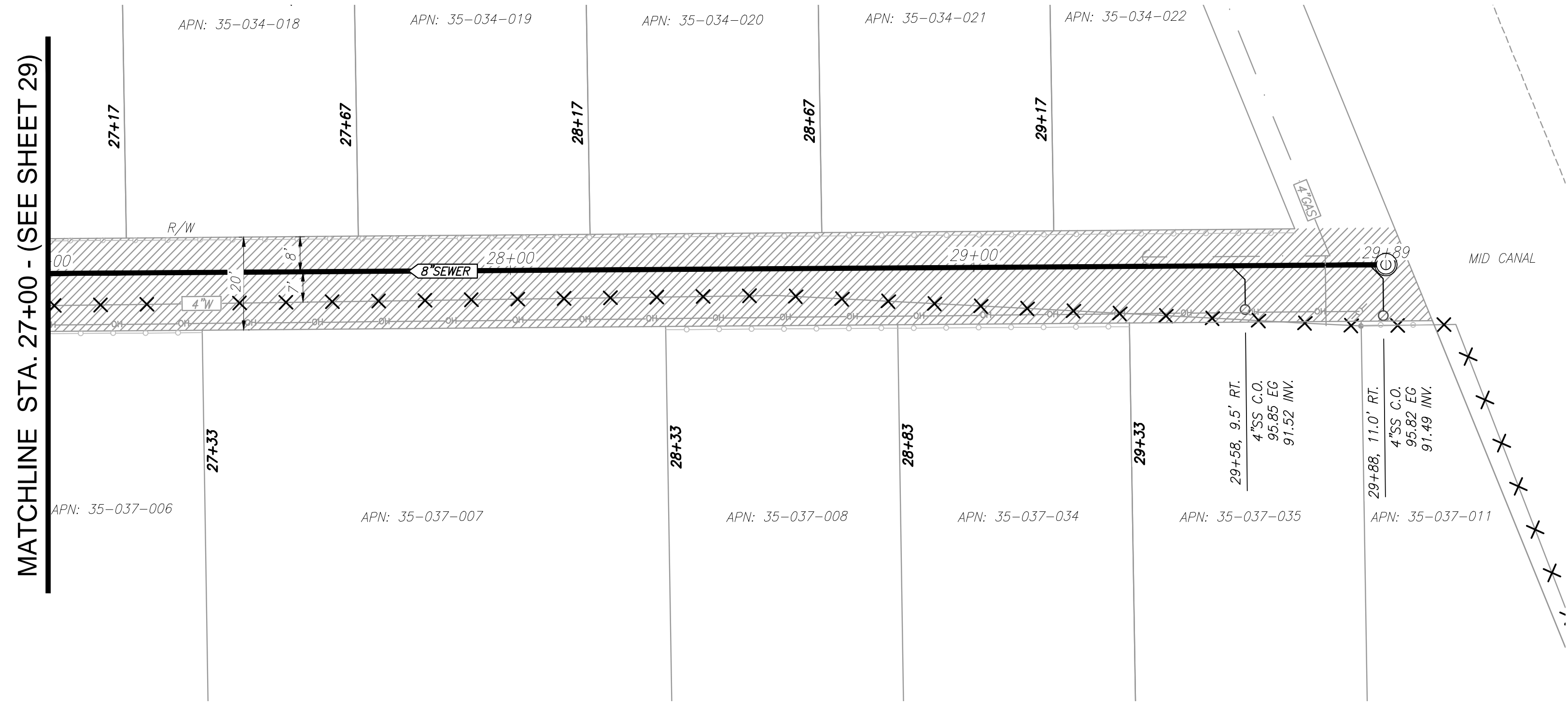
**PROFILE SCALE**  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL

BLOCK 2066 ALLEY  
STA. 23+17 TO STA. 27+00  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PKM/C  
CK BY PKM/C  
SCALE VARIES

SHEET NUMBER  
**29**  
OF 75 SHEETS

06/27/2016 11:25pm  
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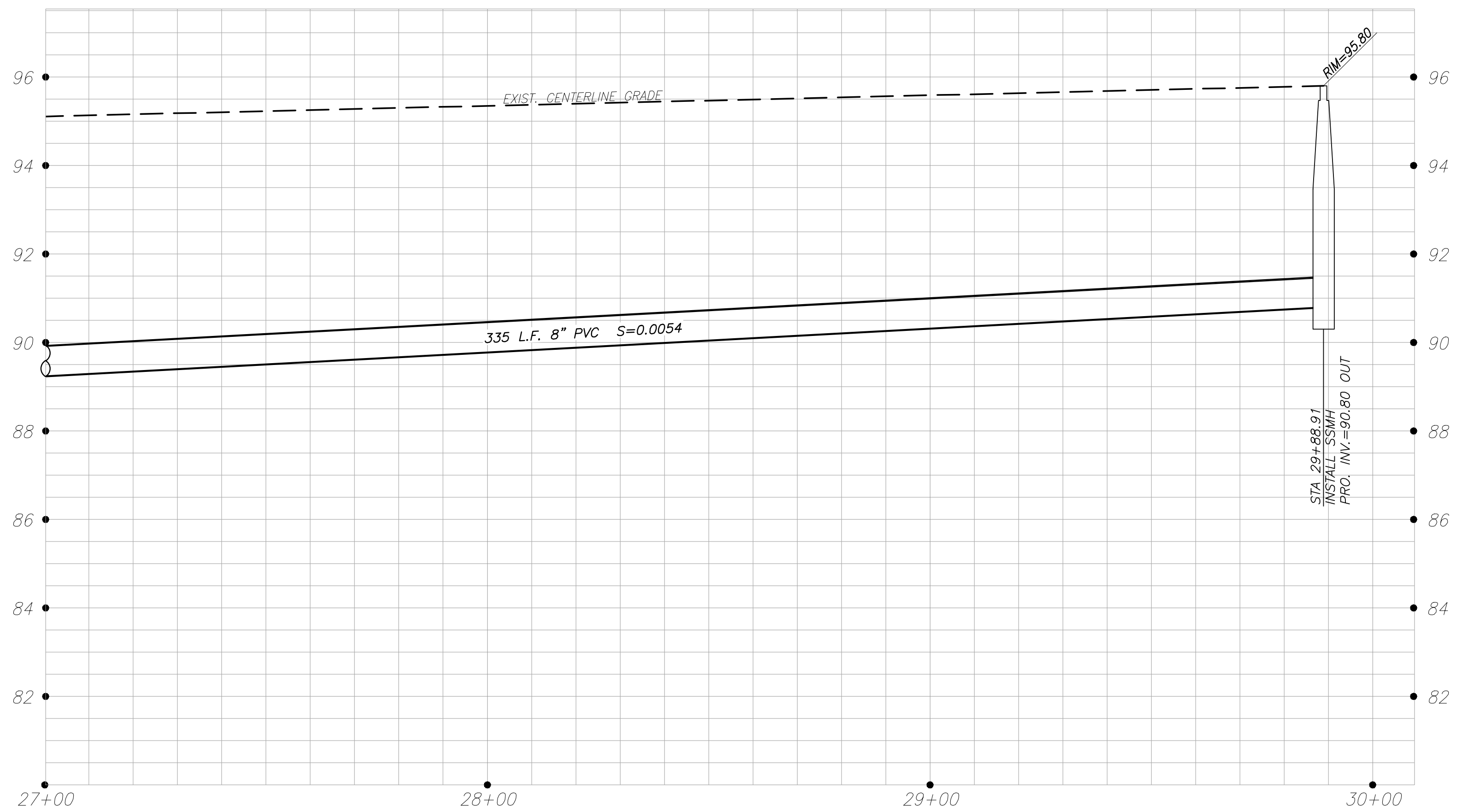


NO	DESCRIPTIONS	DATE	APPROVED

**BLOCK 2066 ALLEY**  
(EAST OF S SANTA CRUZ AVE)



**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



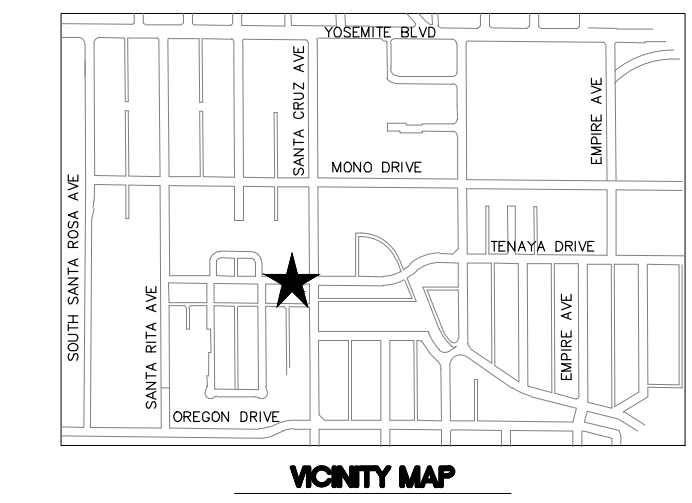
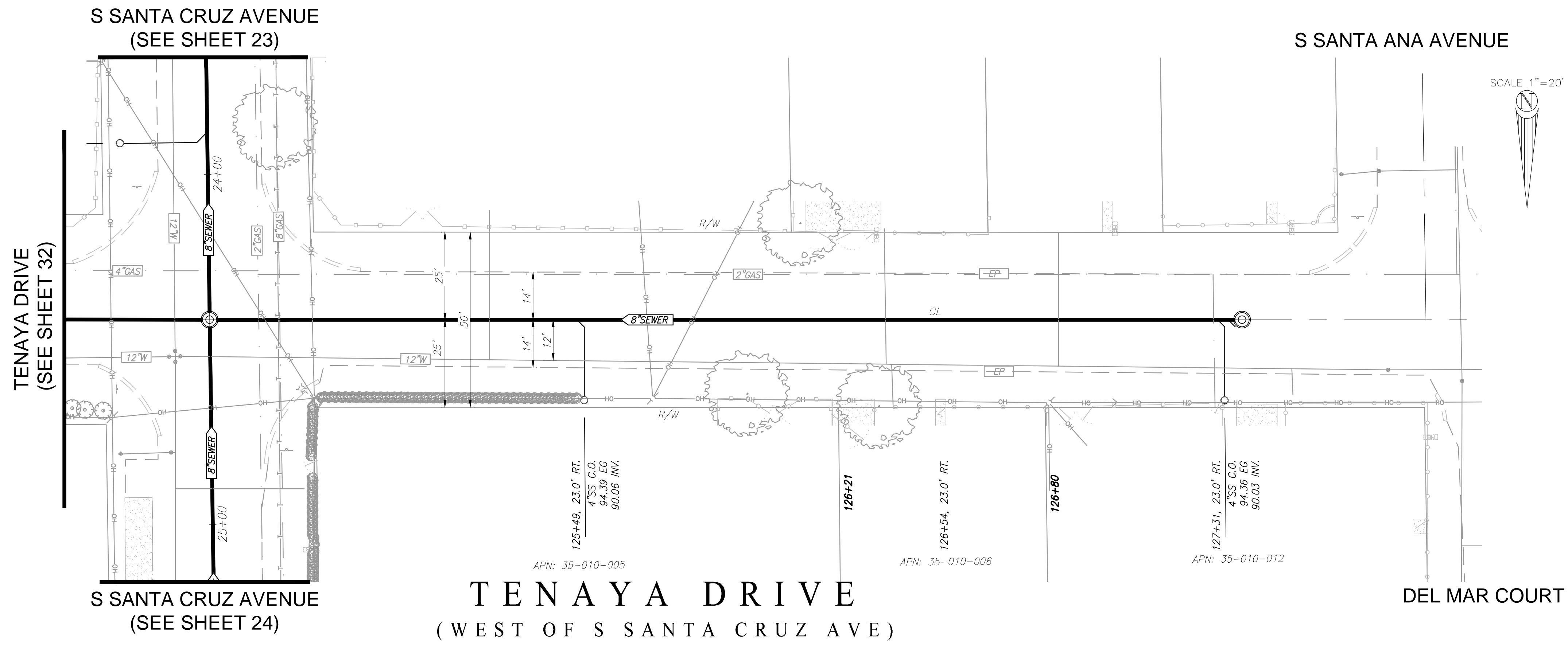
**PROFILE SCALE**  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL

BLOCK 2066 ALLEY  
STA. 27+00 TO STA. 29+89  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO	UPPSWR01
DATE	06/07/2016
DR BY	PK&LC
CK BY	PK&LC
SCALE	VARIABLE

SHEET NUMBER  
**30**  
OF 75 SHEETS

06/27/2016 11:26am C:\Users\jfranco\Documents\Projects\2016\20-14\_Business\_Avenue\_Main\_and\_Submission.dwg

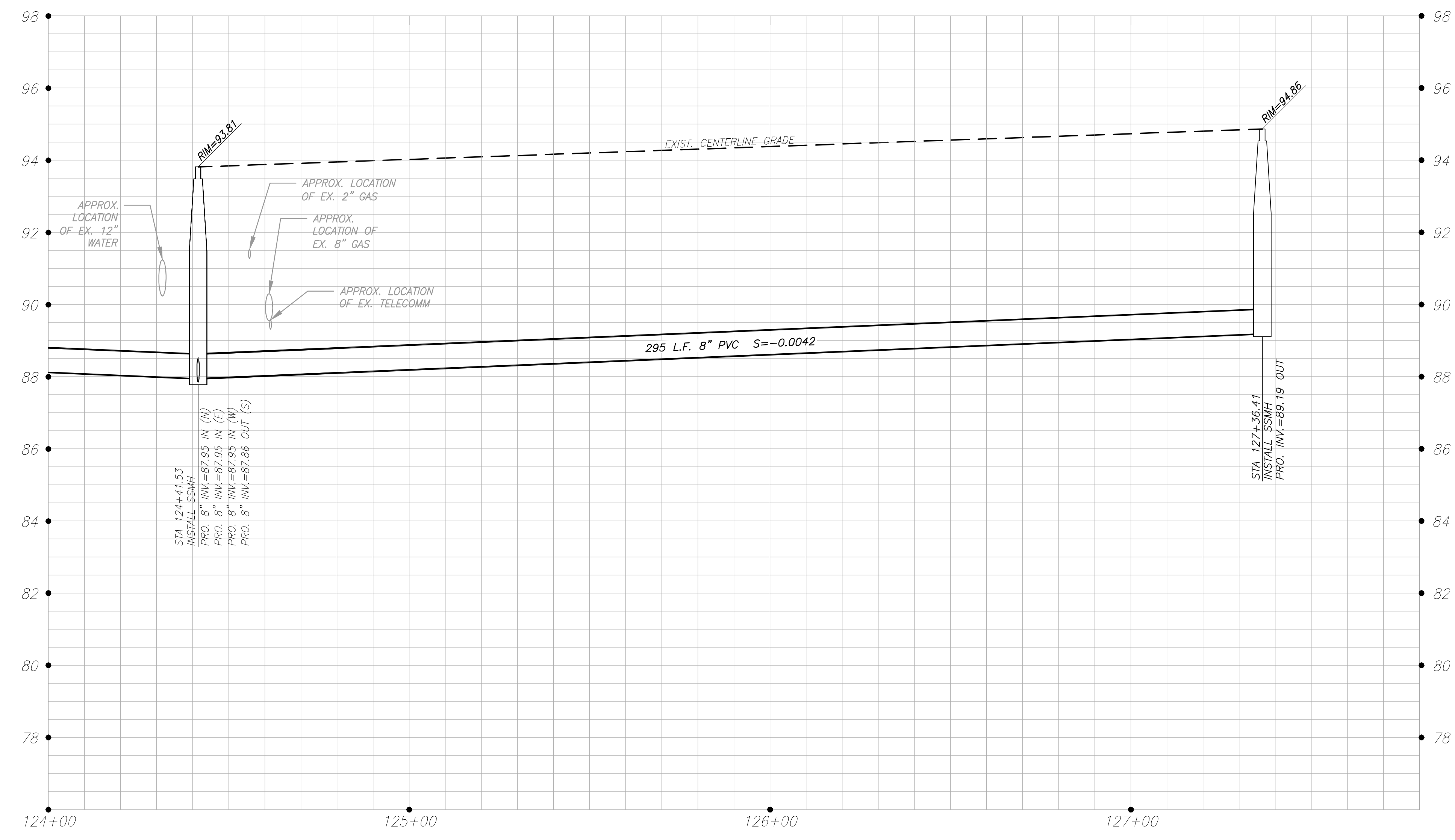
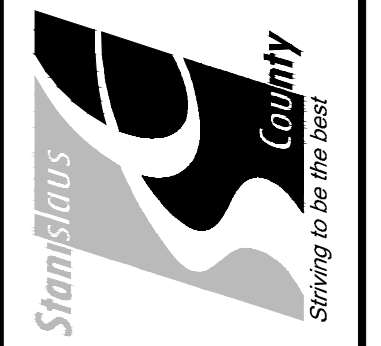


PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



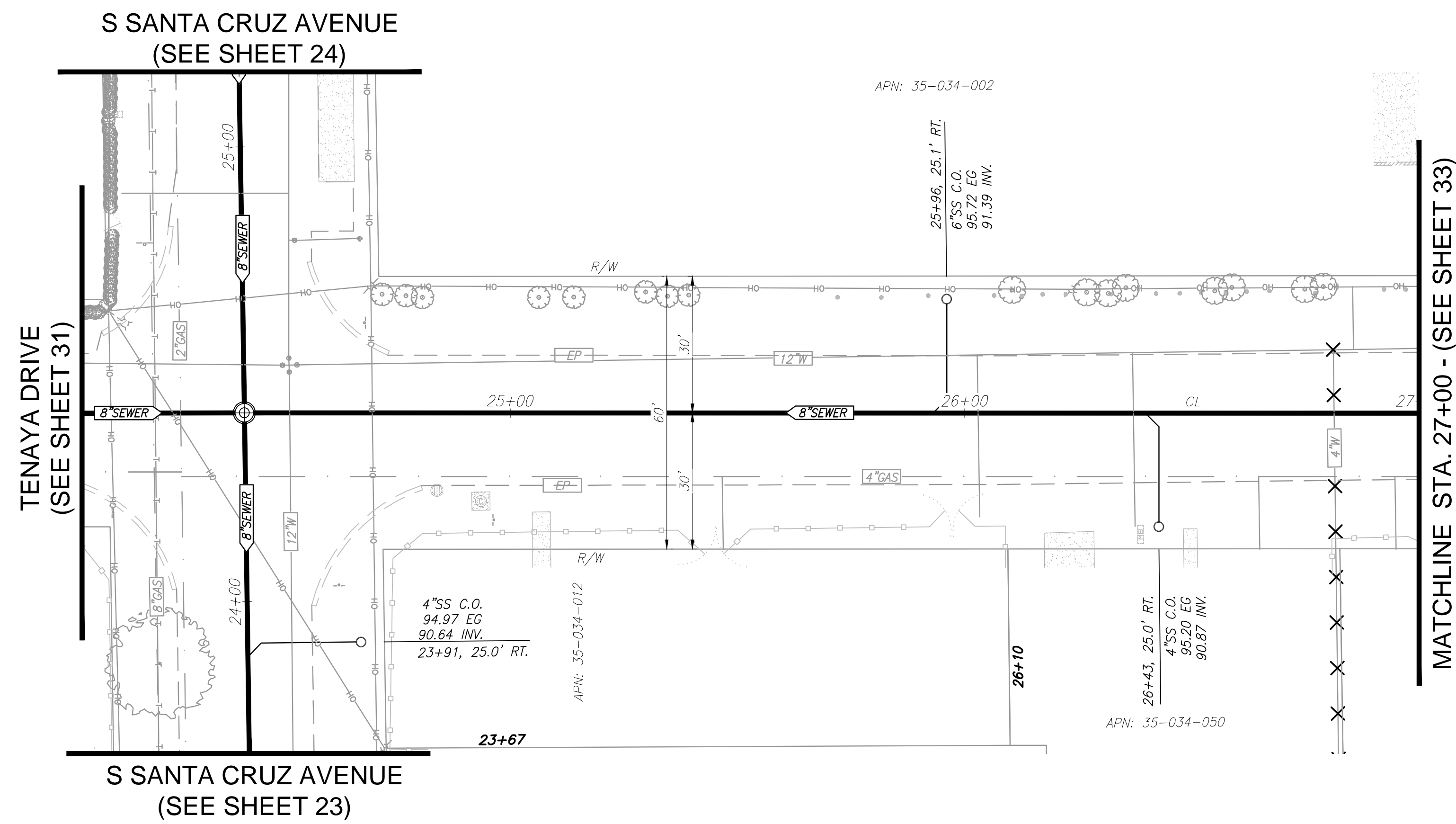
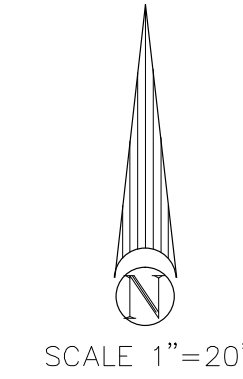
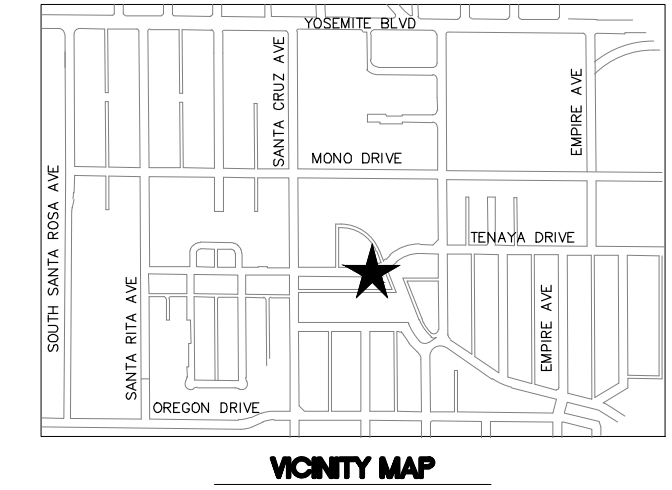
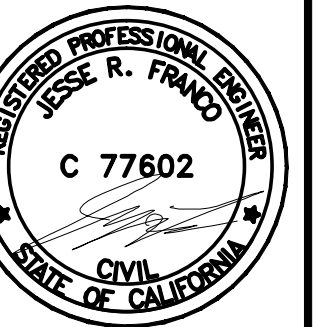
**PROFILE SCALE**  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL

TENAYA DRIVE  
 STA. 124+42 TO STA. 127+36  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

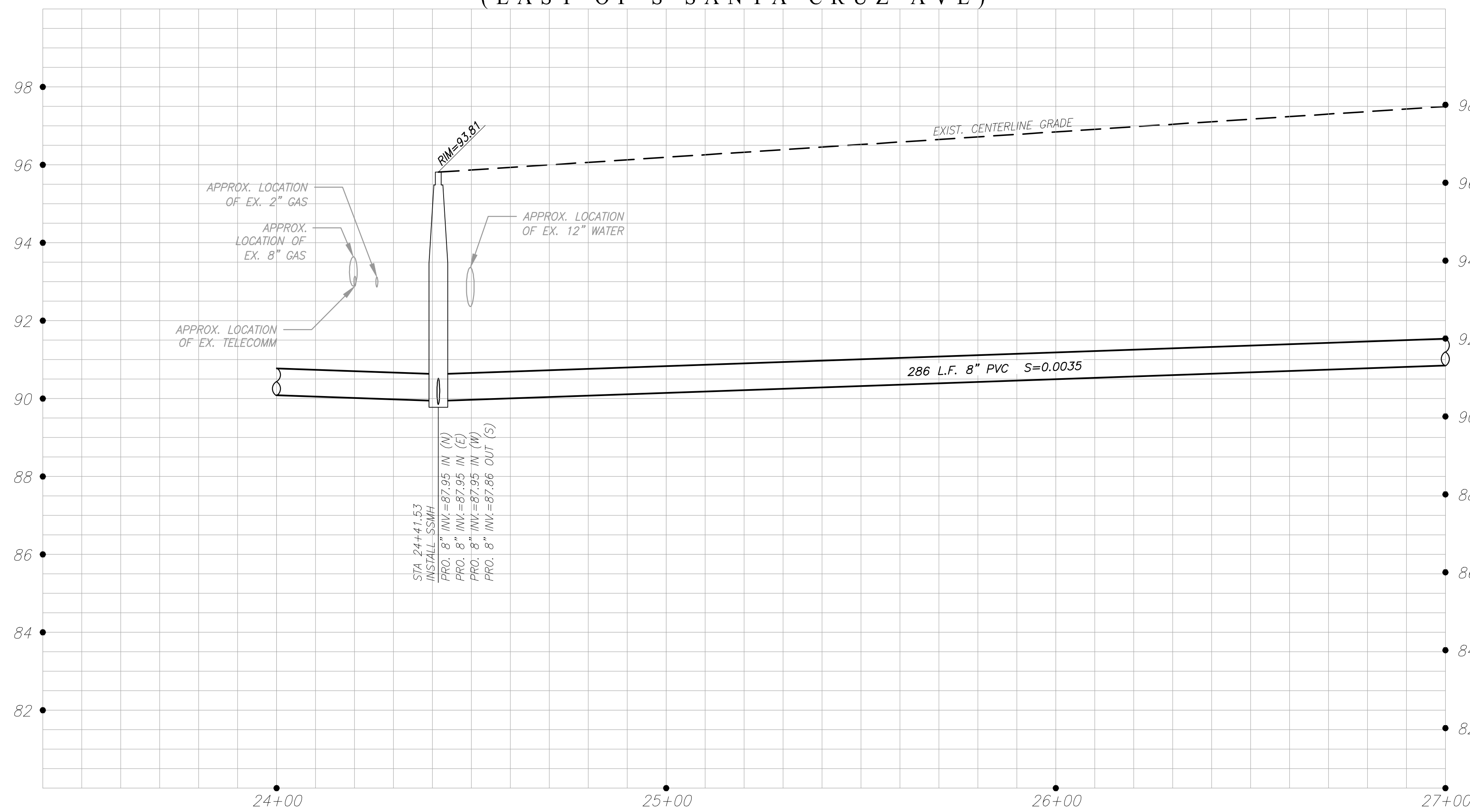
JOB NO. UPPSWR01  
 DATE 06/07/2016  
 DR BY PK&L/C  
 CK BY PK&L/C  
 SCALE VARIES

SHEET NUMBER  
**31**  
 OF 75 SHEETS

C:\Users\jfranco\Documents\Projects\Tenaya\Tenaya.dwg, 5/12/16, 2:20:14 PM, Benicio, Main and Submittal.dwg



TENAYA DRIVE  
(EAST OF S SANTA CRUZ AVE)



PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED

**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



TENAYA DRIVE  
STA. 24+42 TO STA. 27+00  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

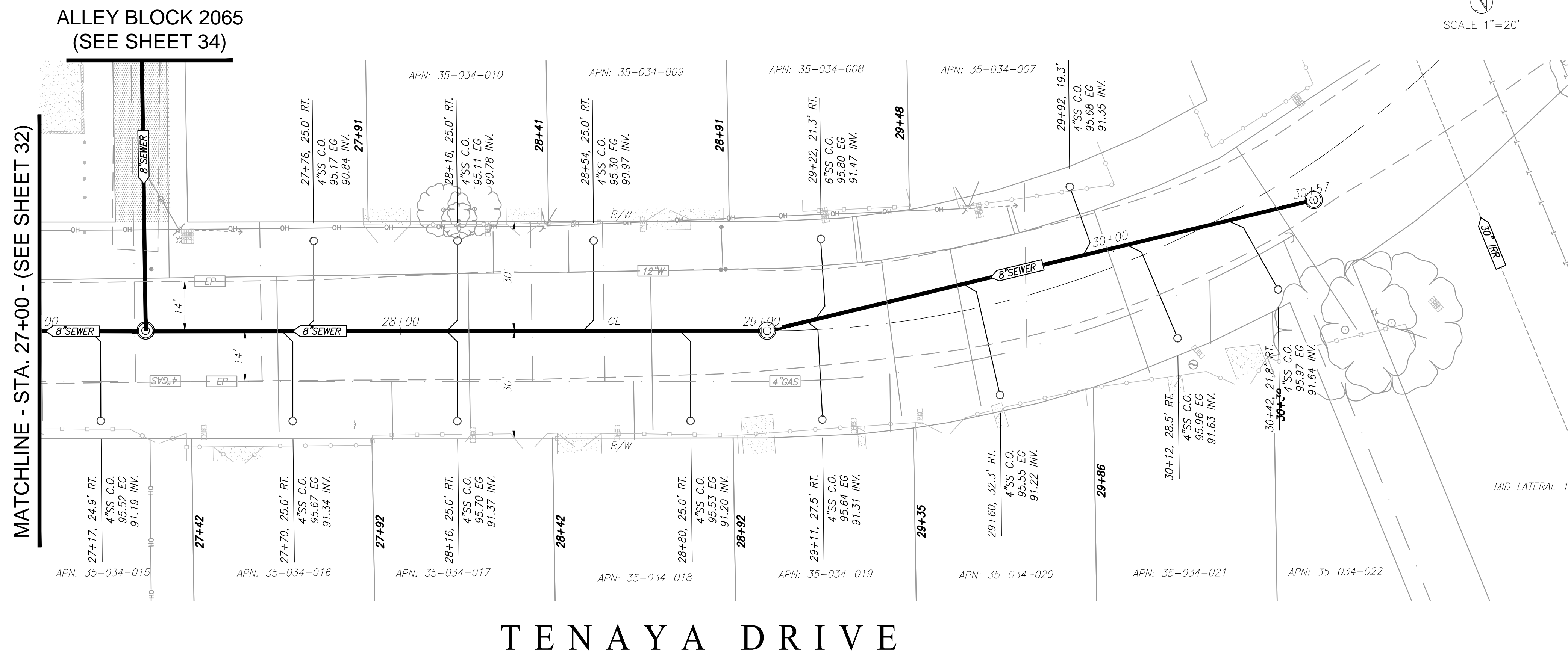
JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK&LC  
CK BY PK&LC  
SCALE VARIES

PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL

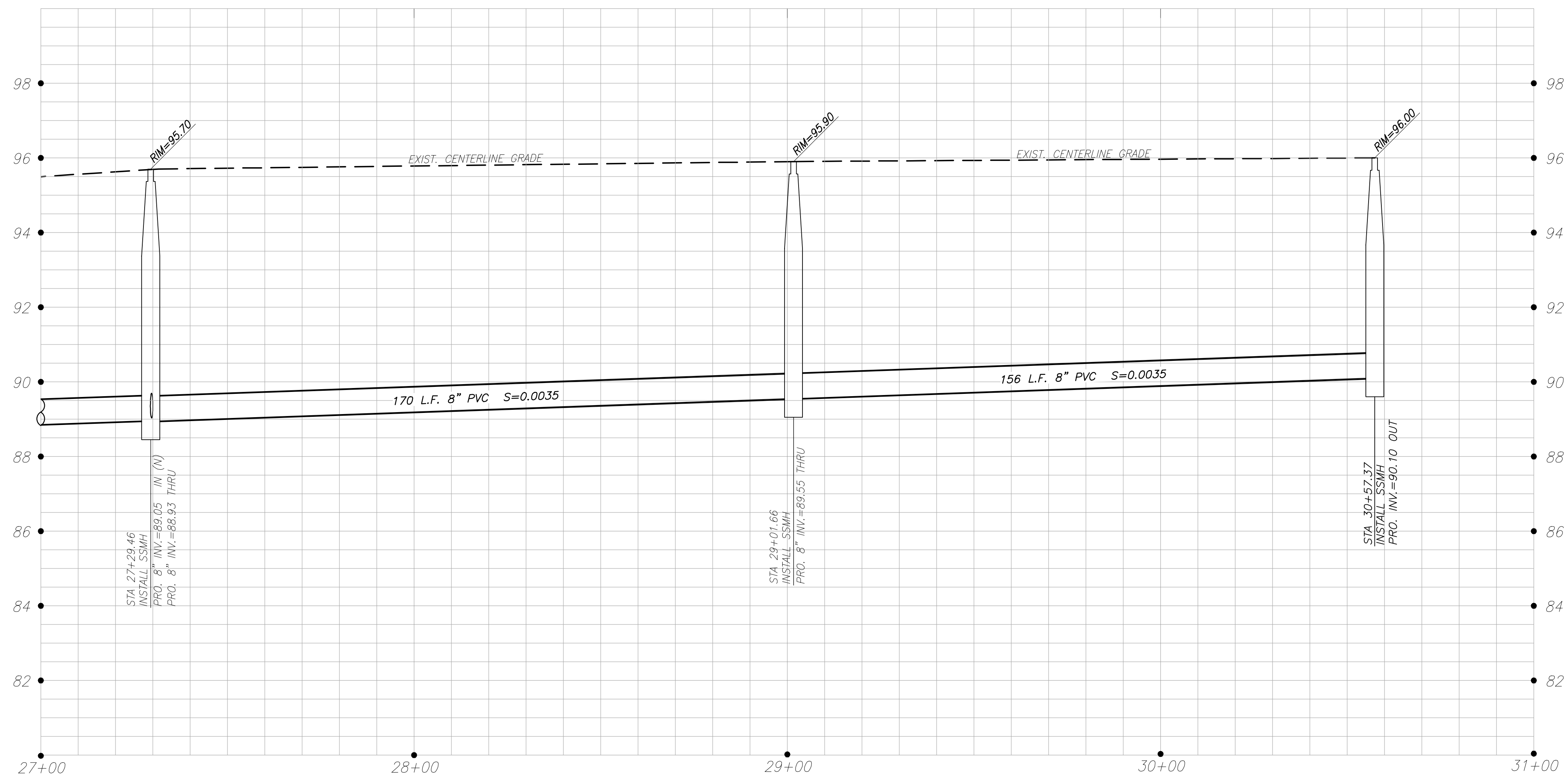
SHEET NUMBER  
**32**  
OF 75 SHEETS



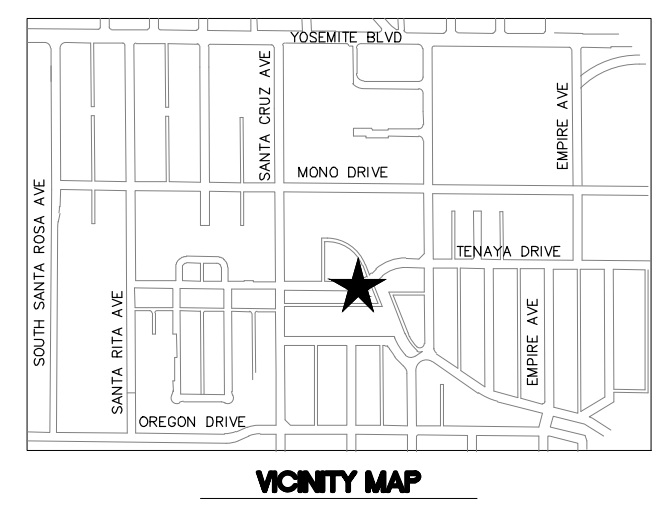
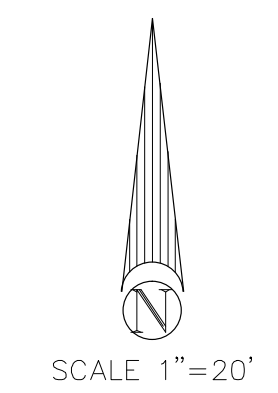
06/27/2016 11:27am  
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### TENAYA DRIVE



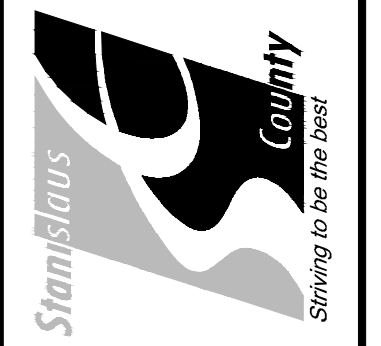
**PROFILE SCALE**  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL



NO	DESCRIPTIONS	DATE	APPROVED



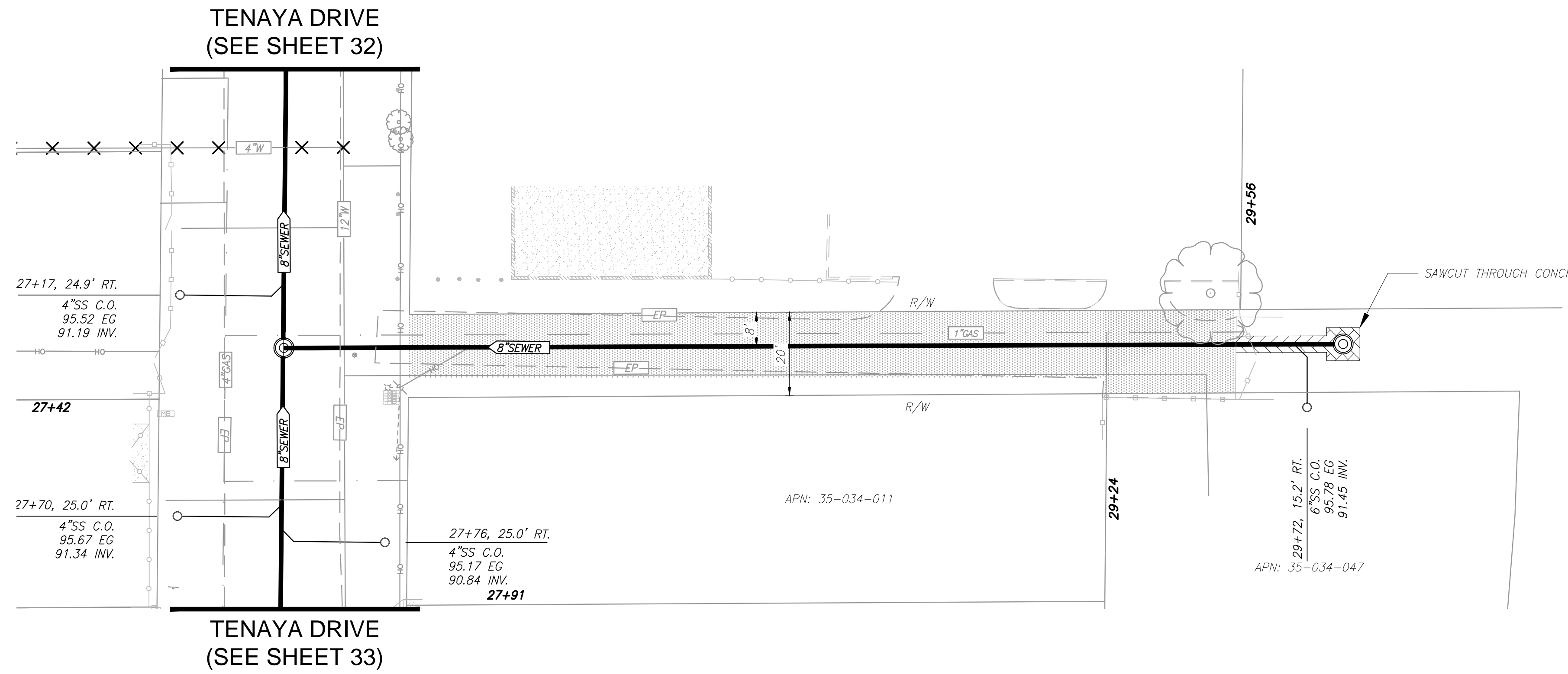
**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



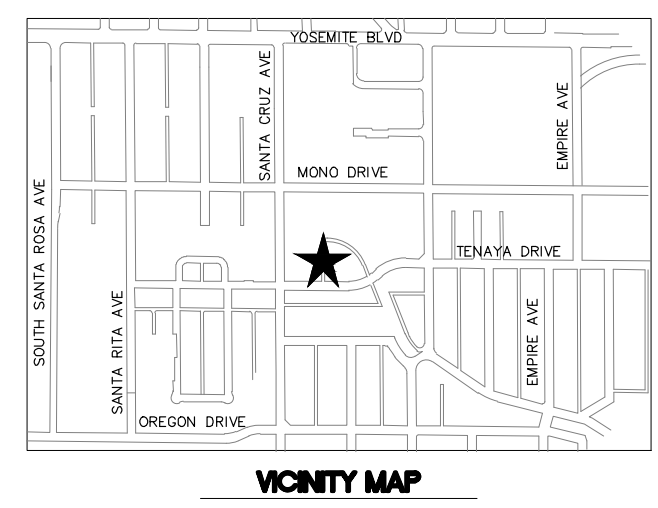
TENAYA DRIVE  
 STA. 27+00 TO STA. 30+57  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO UPPSWR01  
 DATE 06/07/2016  
 DR BY PK&LC  
 CK BY PK&LC  
 SCALE VARIES

SHEET NUMBER  
**33**  
 OF 75 SHEETS

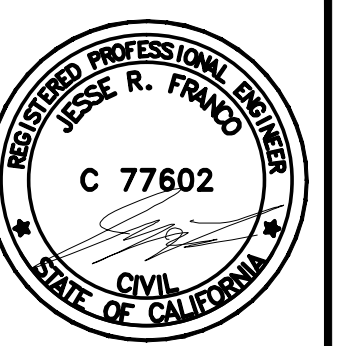
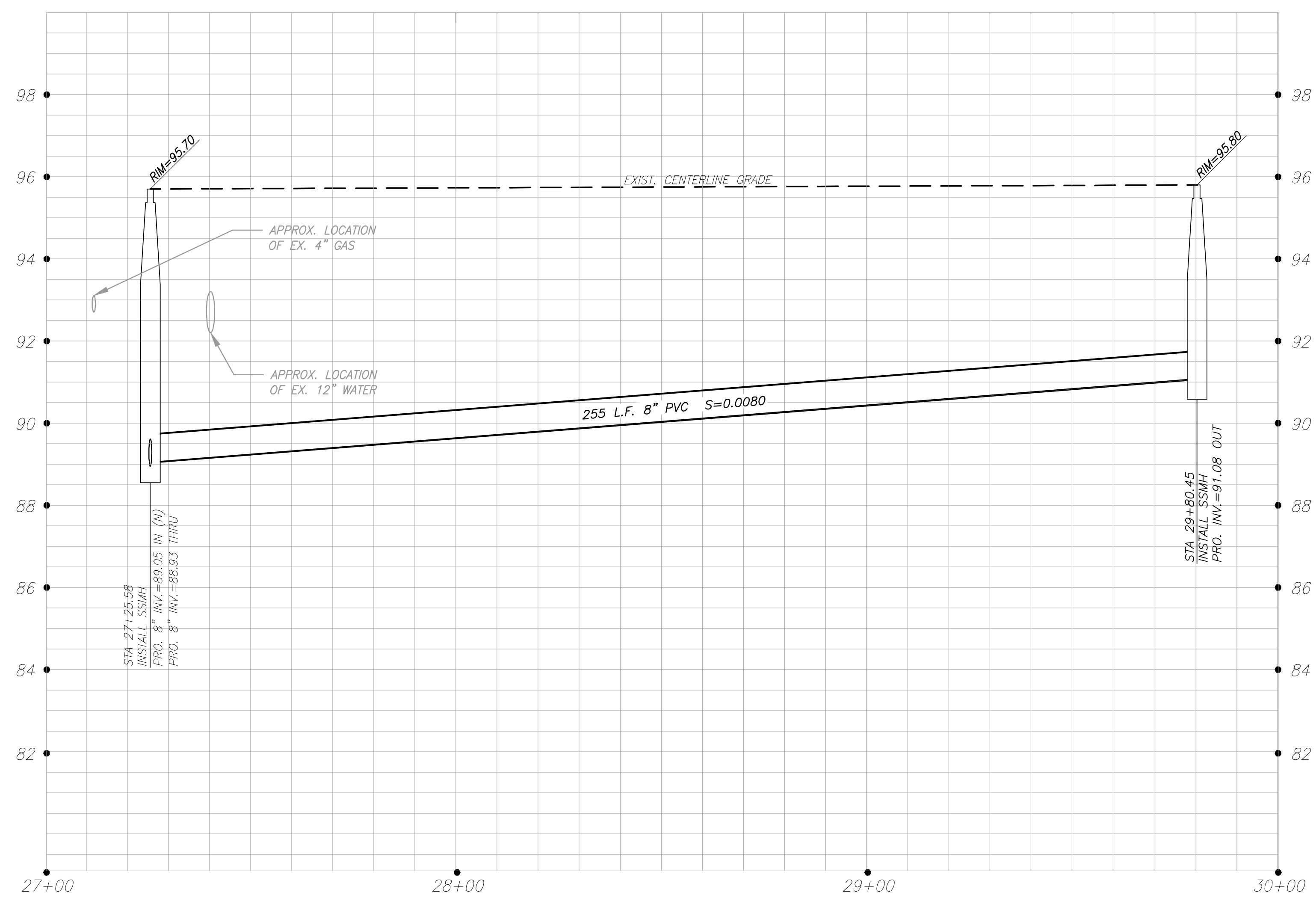


SCALE 1"=20'



- REMOVE AND REPLACE AC PAVEMENT (TYP.)
- REMOVE AND REPLACE CONCRETE (TYP.)

# ALLEY BLOCK 2065



PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED

**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



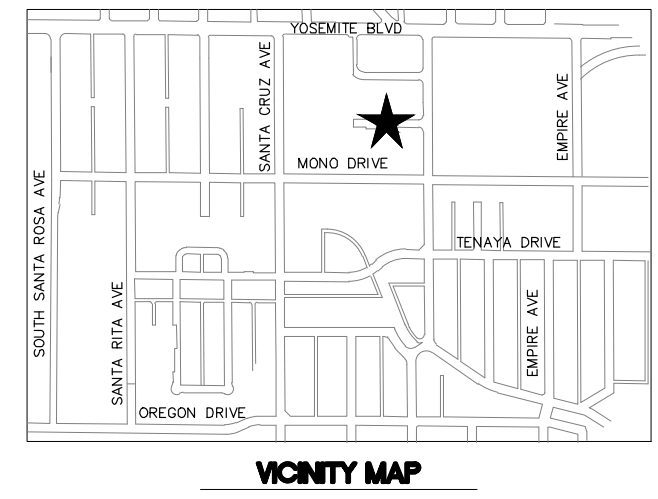
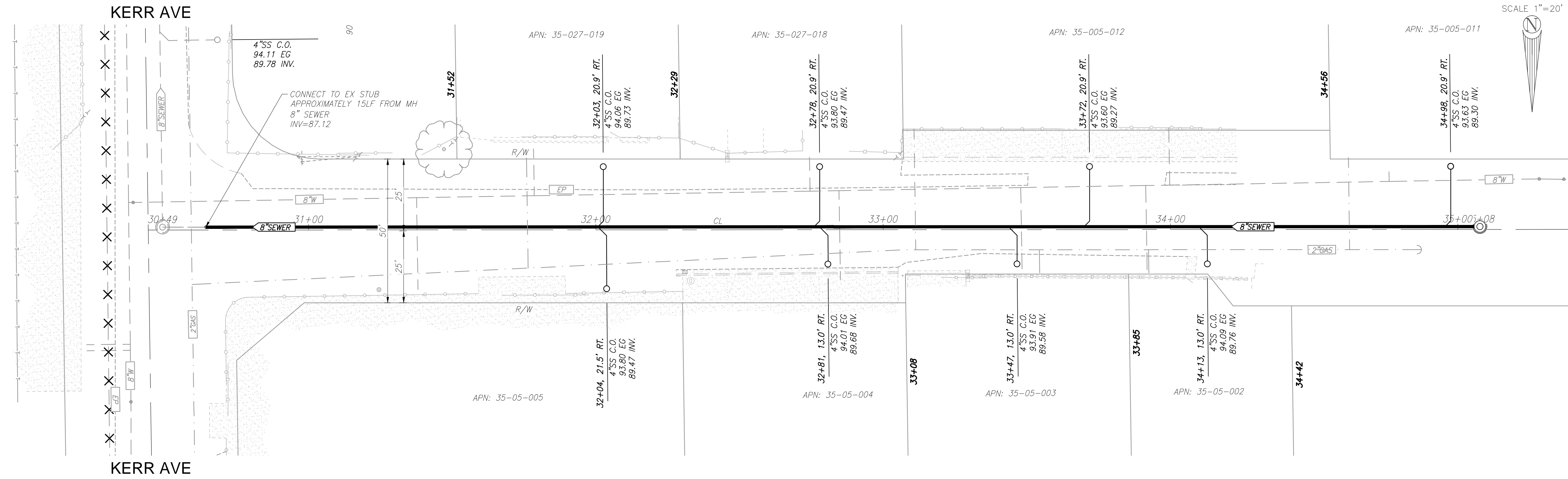
BLOCK 2065 ALLEY  
 STA. 27+26 TO STA. 29+80  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO. UPPSWR01  
 DATE 06/07/2016  
 DR BY PK/M/C  
 CK BY PK/M/C  
 SCALE VARIES

PROFILE SCALE  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL

SHEET NUMBER  
**34**  
 OF 75 SHEETS

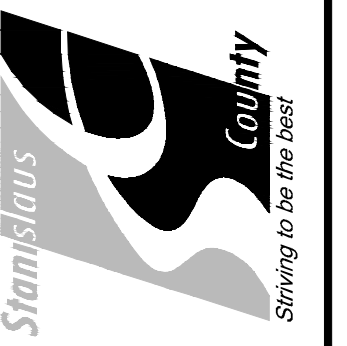
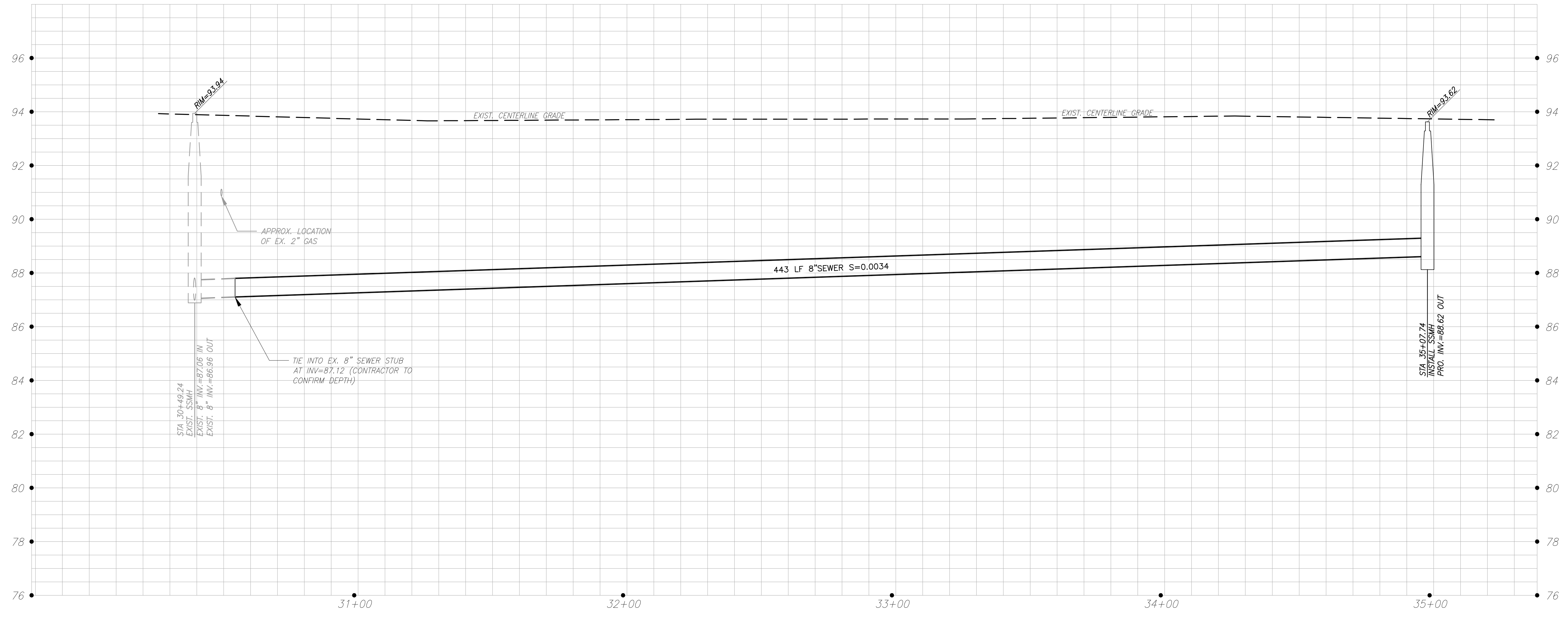
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PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED

PAGE COURT



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358

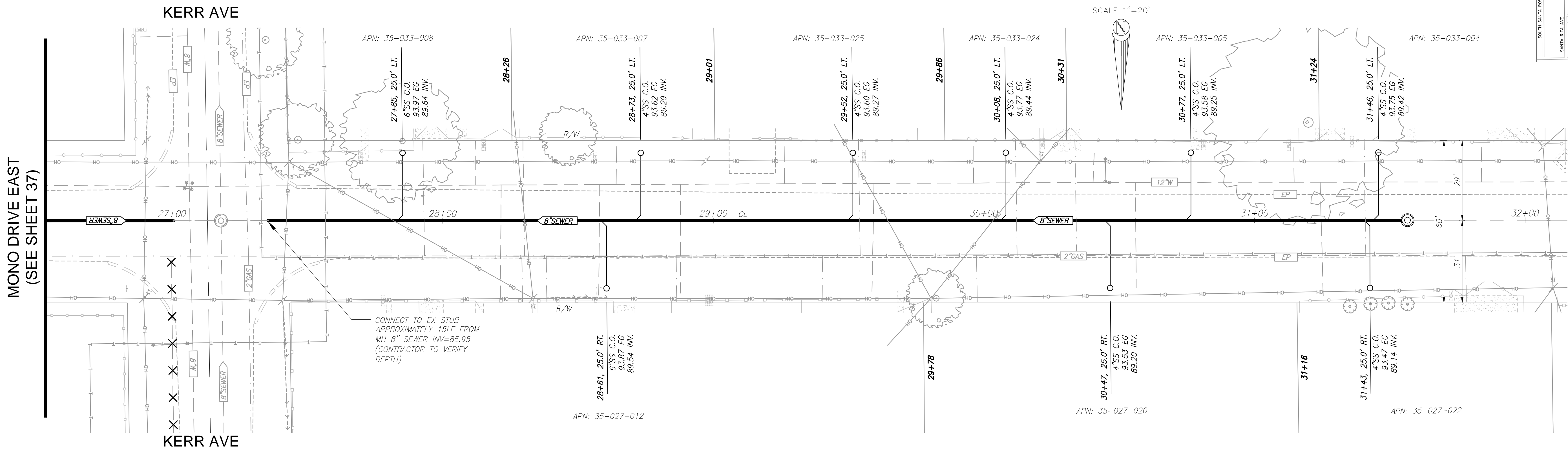
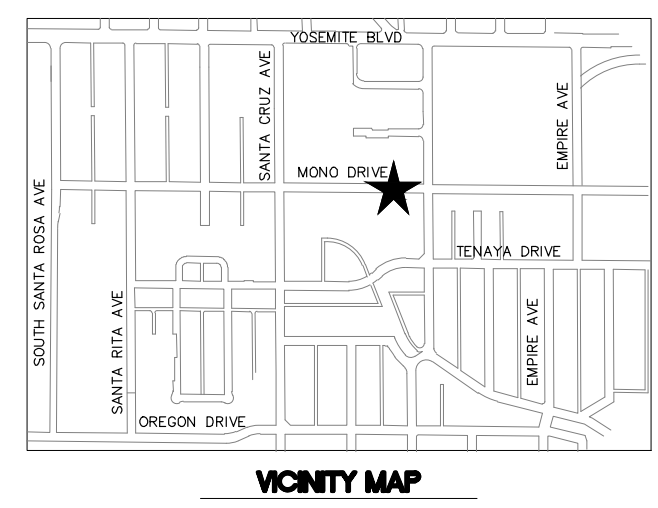
PAGE COURT  
 STA. 30+49 TO STA. 35+08  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO UPPSWR01  
 DATE 06/07/2016  
 DR BY PK&LC  
 CK BY PK&LC  
 SCALE VARIES

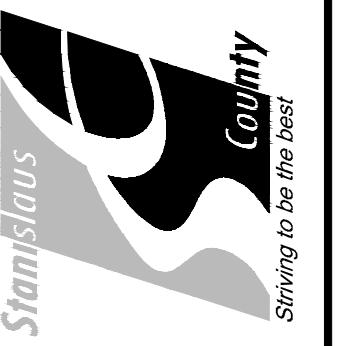
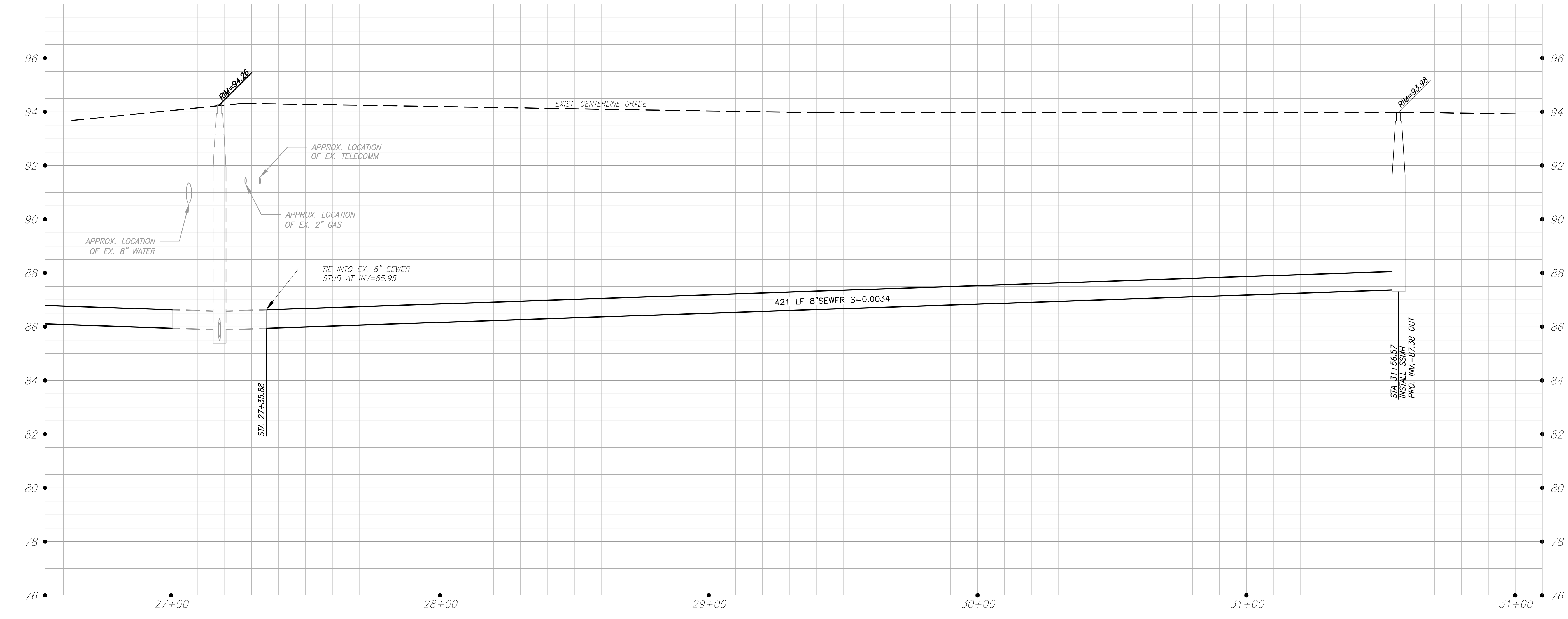
SHEET NUMBER  
**35**  
 OF 75 SHEETS

PROFILE SCALE  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL

C:\Users\jfranco\OneDrive\Documents\Projects\Kerr Ave\Kerr Ave.dwg, 35-48 Kerr Main.dwg  
 27, 2016, 4:50pm



## MONO DRIVE (WEST OF KERR)



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358

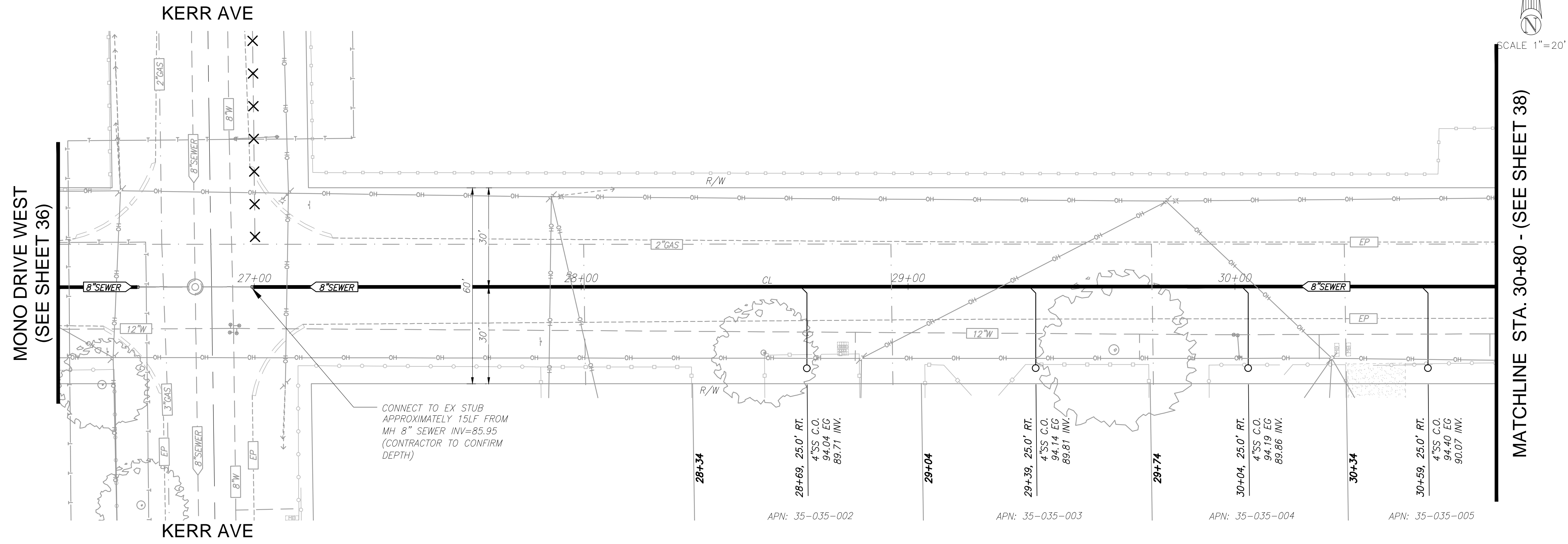
MONO DRIVE  
 STA. 27+18 TO STA. 31+57  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO UPPSWR01  
 DATE 06/07/2016  
 DR BY PK&LC  
 CK BY PK&LC  
 SCALE VARIES

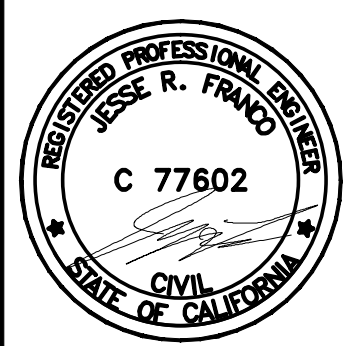
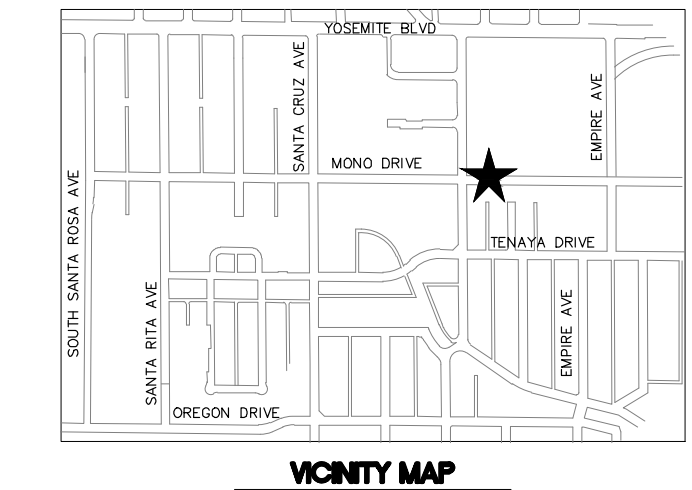
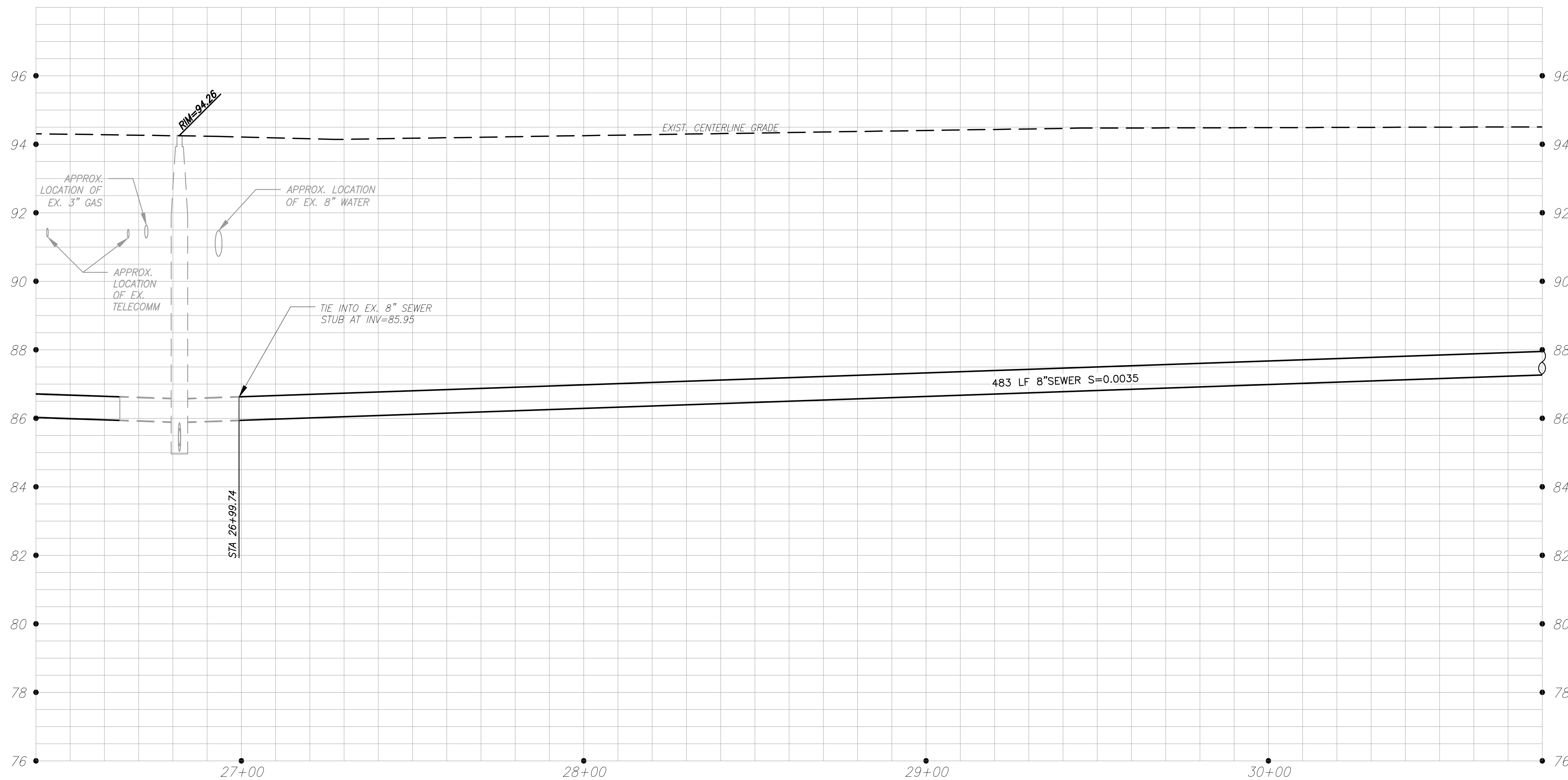
SHEET NUMBER  
**36**  
 OF 75 SHEETS

**PROFILE SCALE**  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL

06/27/2016 4:50pm C:\Users\pkandl\OneDrive\Documents\Projects\2016\1666A\PC\_35-48\_Kerr\_Mono.dwg



**MONO DRIVE  
(EAST OF KERR AVE)**

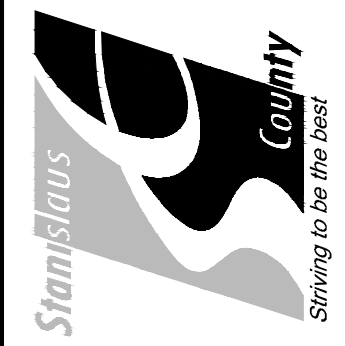


PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



MONO DRIVE  
 STA. 26+40 TO STA. 30+80  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

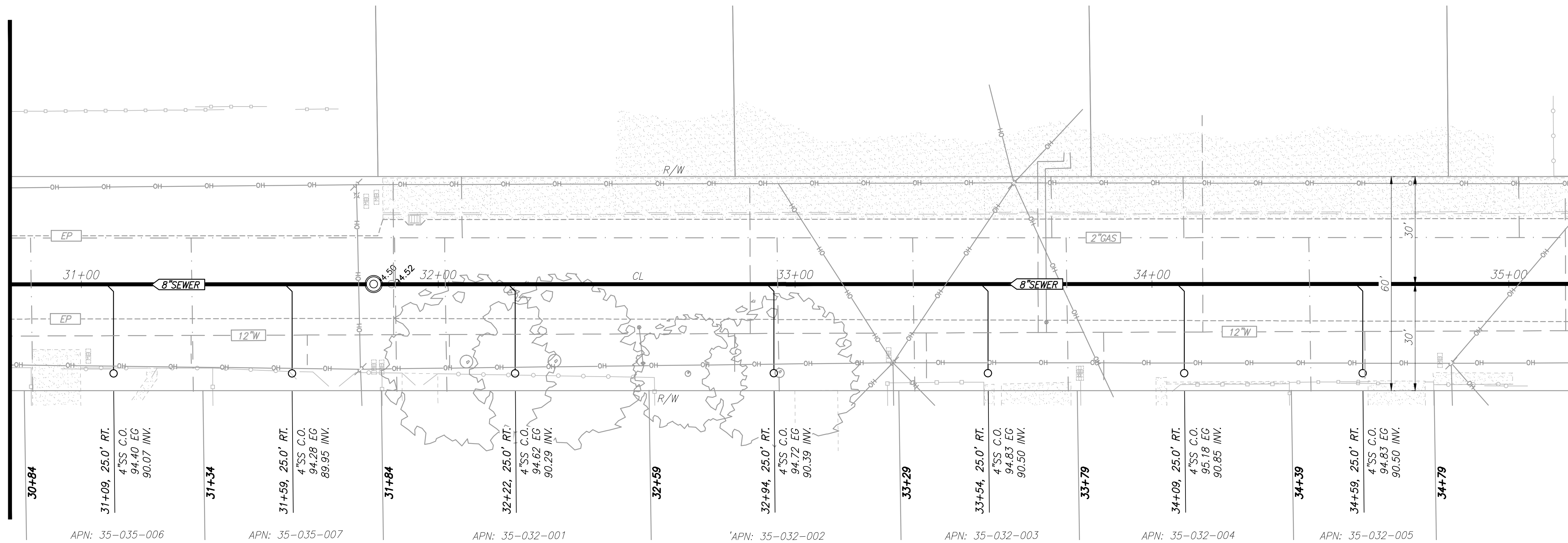
JOB NO. UPPSWR01  
 DATE 06/07/2016  
 DR BY PK&L/C  
 CK BY PK&L/C  
 SCALE VARIES

SHEET NUMBER  
**37**  
 OF 75 SHEETS

**PROFILE SCALE**  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL

04/27/2016 4:50pm  
 C:\Users\jfranco\Documents\Projects\Kerr\Kerr\Kerr\Kerr.dwg

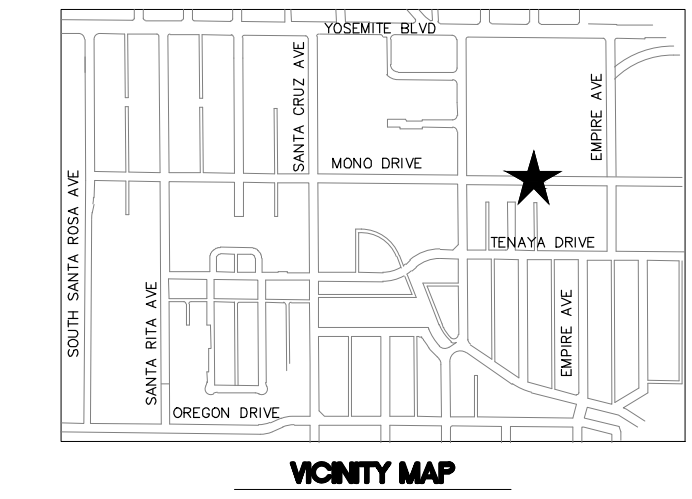
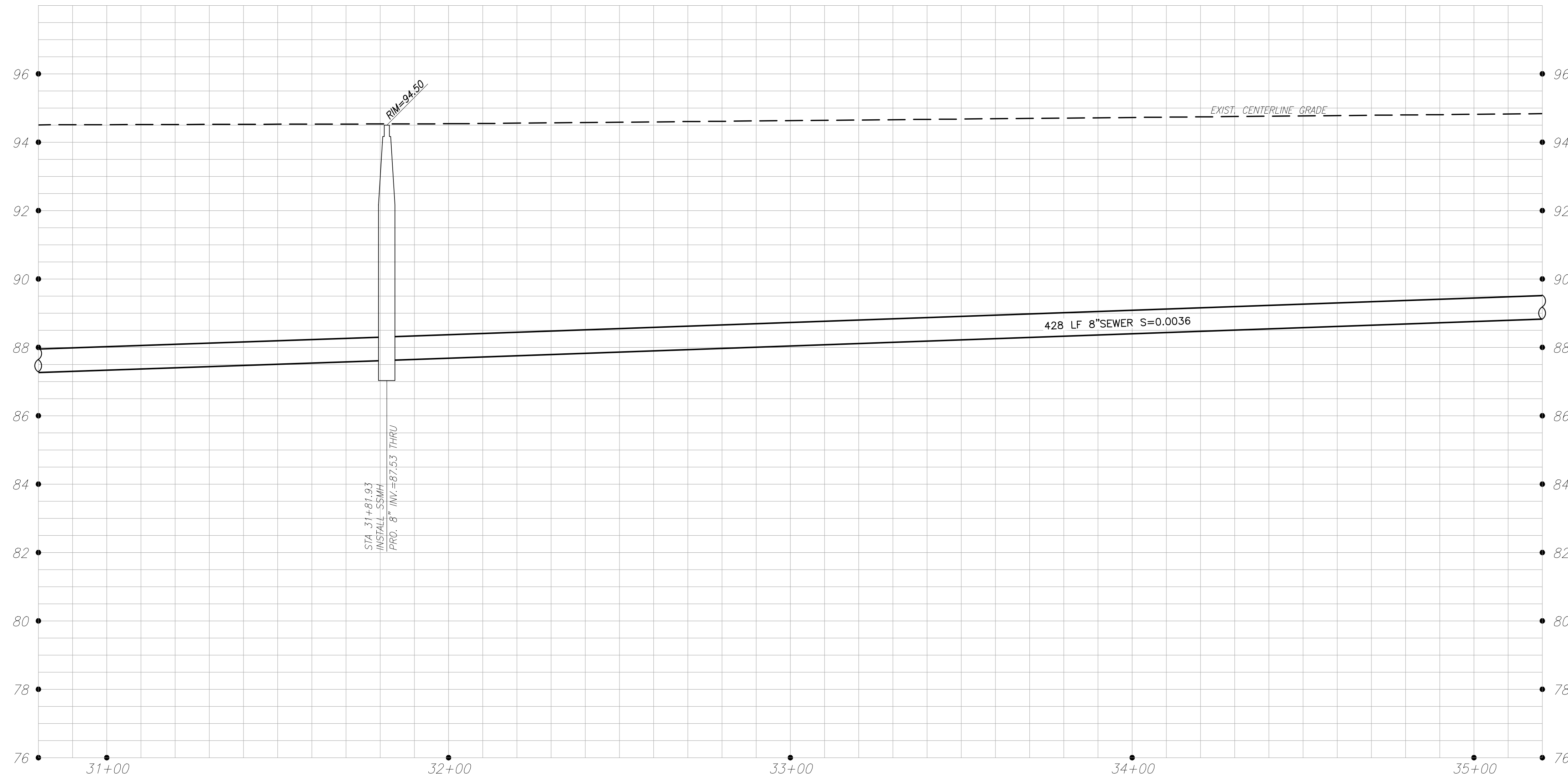
MATCHLINE STA. 30+80 - (SEE SHEET 37)



SCALE 1"=20'

MATCHLINE STA. 35+20 - (SEE SHEET 39)

# MONO DRIVE (EAST OF KERR AVE)

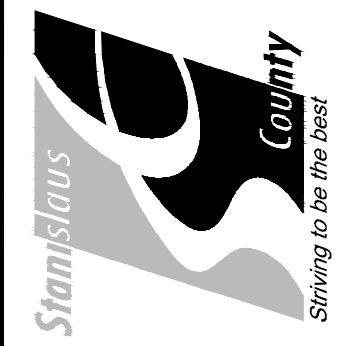


PREPARED UNDER THE DIRECTION OF:

NO	DESCRIPTIONS	DATE	APPROVED



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



MONO DRIVE  
 STA. 30+80 TO STA. 35+20  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

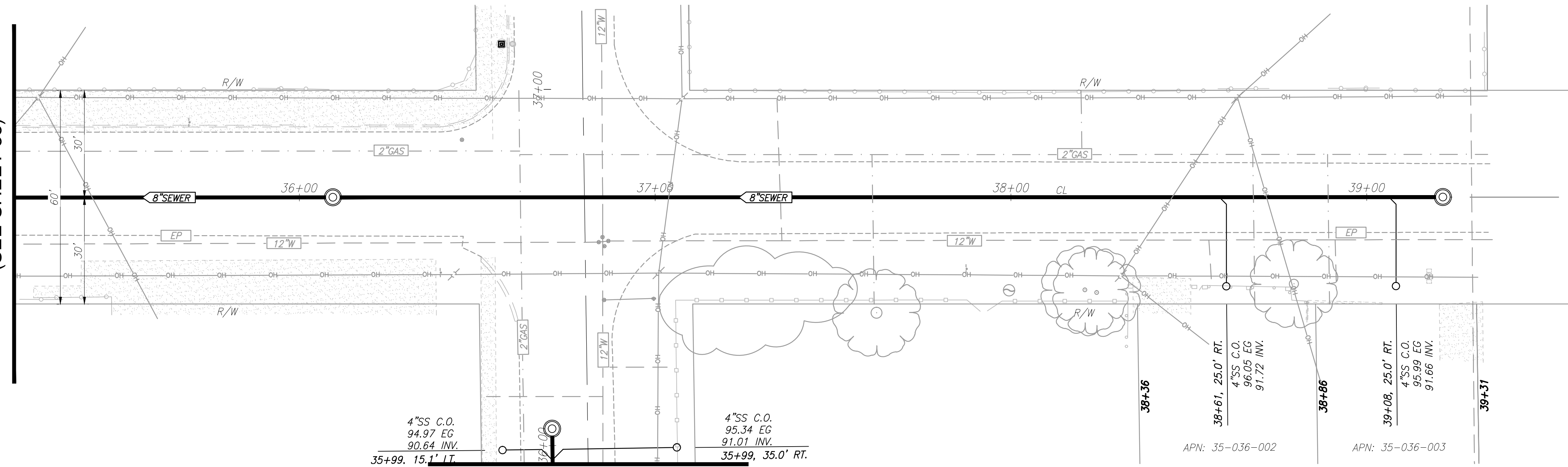
JOB NO UPPSWR01  
 DATE 06/07/2016  
 DR BY PKMLC  
 CK BY PKMLC  
 SCALE VARIES

SHEET NUMBER  
**38**  
 OF 75 SHEETS

PROFILE SCALE  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL

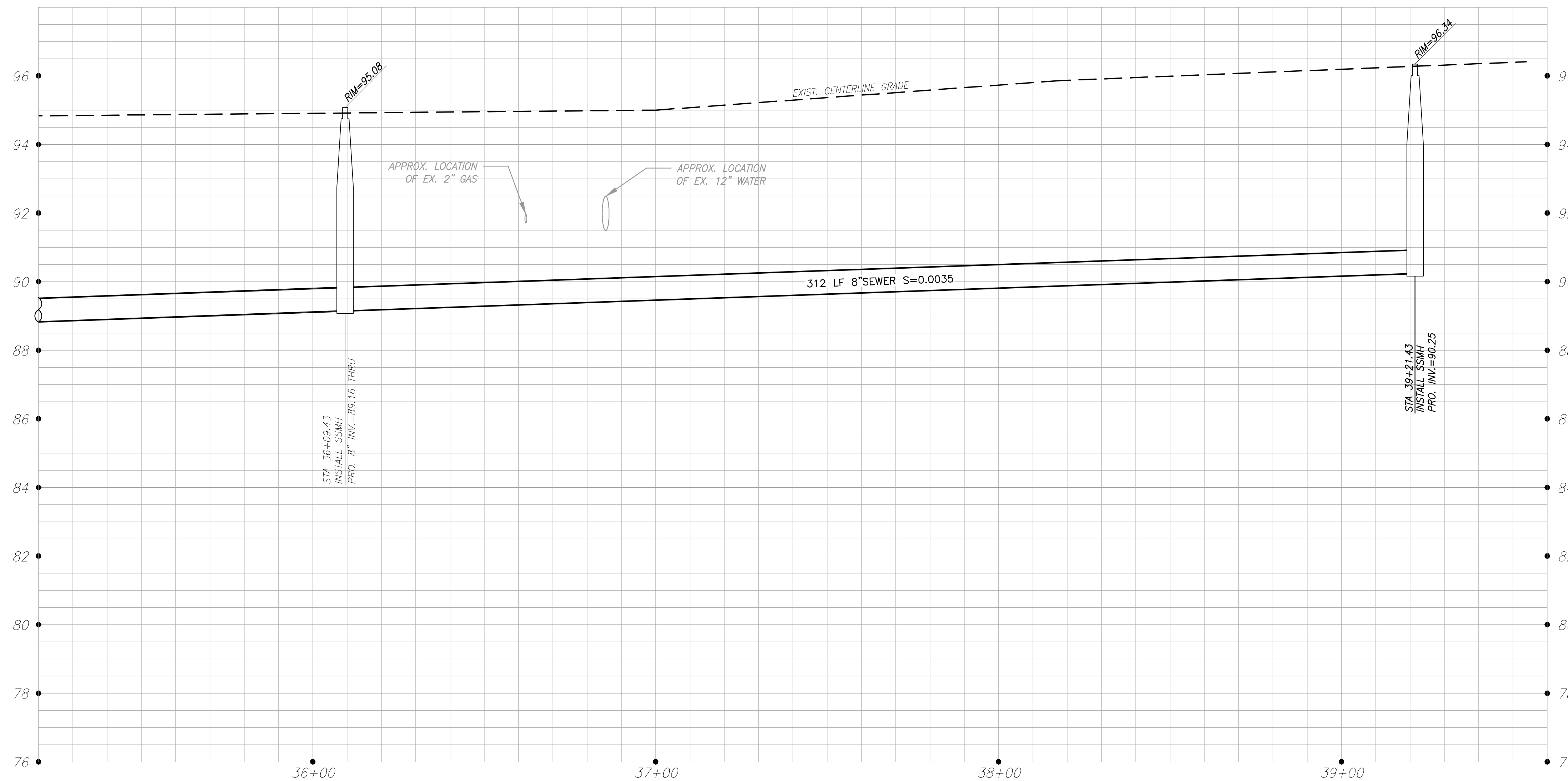
Doc: \\mwa\corporate\apps\l\proj\16\1606\160607\160607.dwg, 35-48 Kerr Mono.dwg  
 27, 2016, 4:50pm

MATCHLINE STA. 35+20  
(SEE SHEET 38)



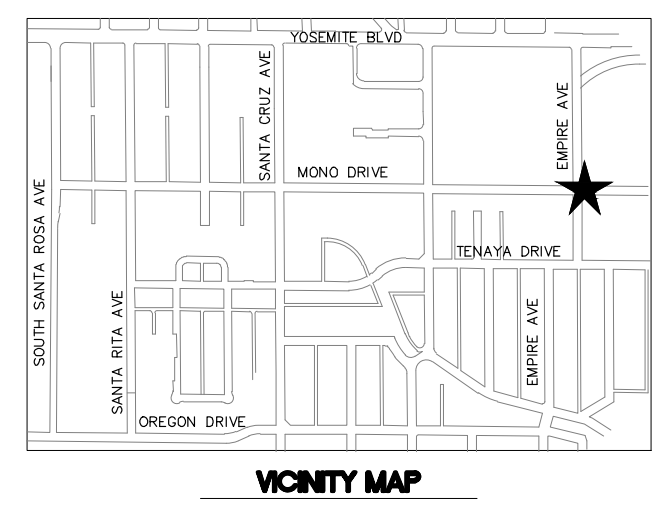
EMPIRE AVENUE  
(SEE SHEET 45)

MONO DRIVE  
(EAST OF KERR AVE)

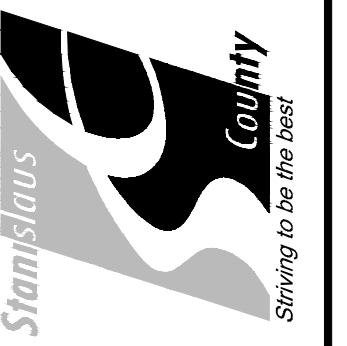


PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL

SCALE 1" = 20'



NO.	DESCRIPTIONS	DATE	APPROVED



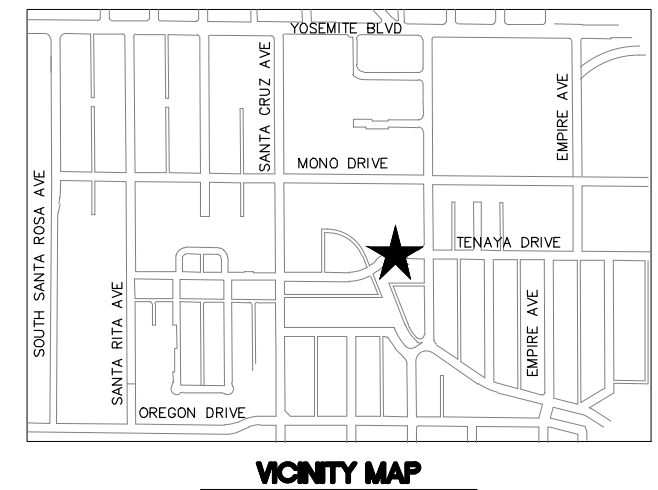
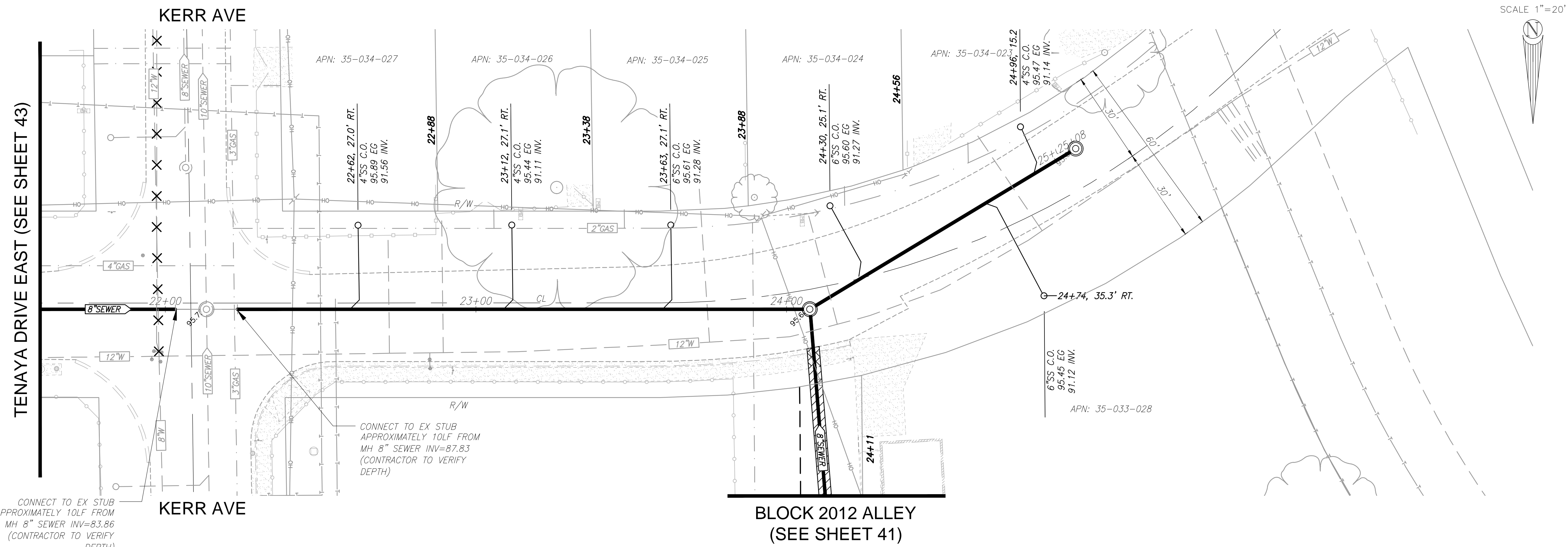
STANISLAUS COUNTY  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358

MONO DRIVE  
STA. 35+20 TO STA. 39+21  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK&L/C  
CK BY PK&L/C  
SCALE VARIES

SHEET NUMBER  
**39**  
OF 75 SHEETS

Doc: 27\_2016\_450pm - 450pm  
C:\Users\jfranco\Documents\Projects\2016\2664\PC\_35+48\_Kerr\_Mono.dwg



SCALE 1"=20'



NO.	DESCRIPTIONS	DATE	APPROVED

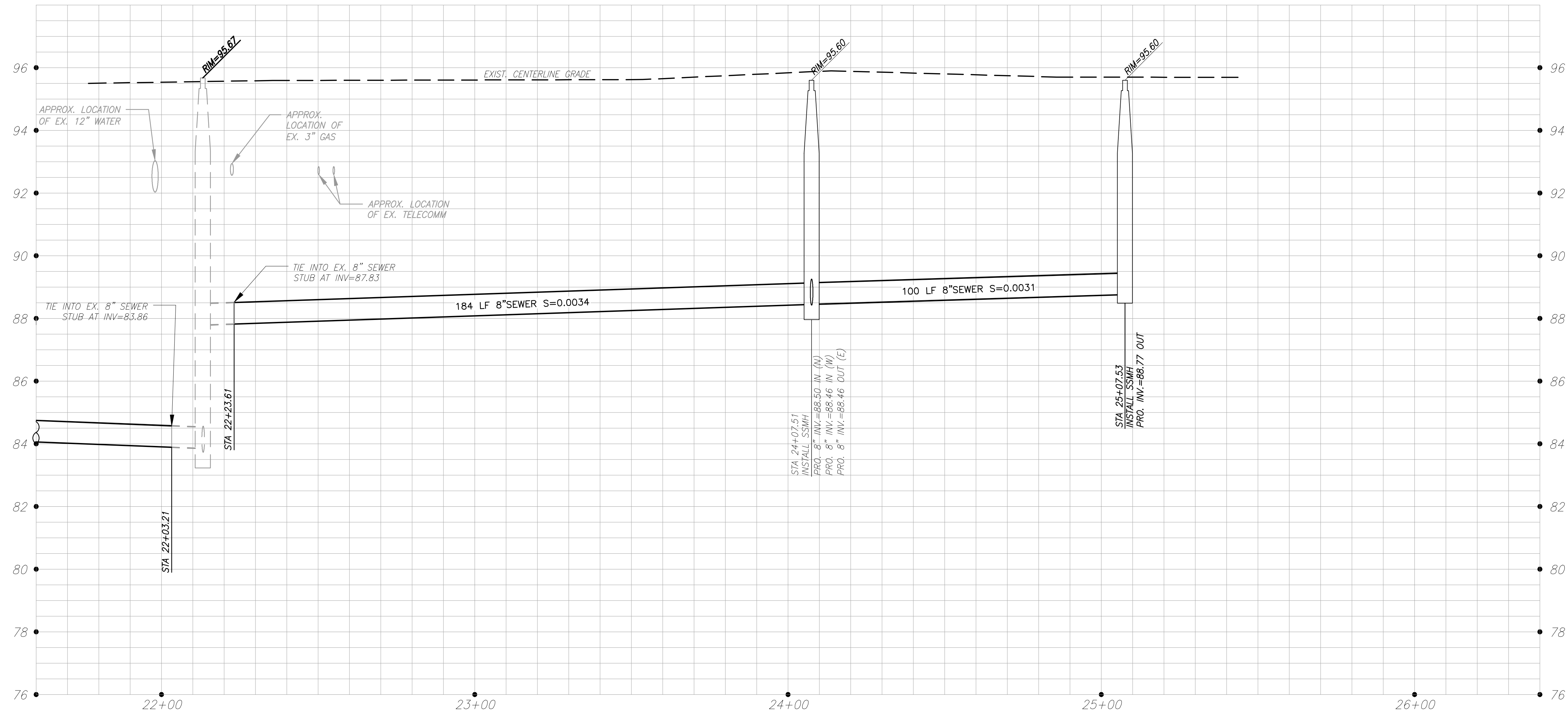
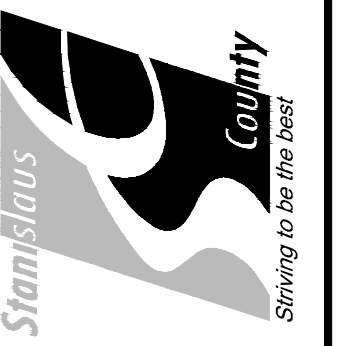
CONNECT TO EX STUB APPROXIMATELY 10LF FROM MH 8" SEWER INV=83.86 (CONTRACTOR TO VERIFY DEPTH)

CONNECT TO EX STUB APPROXIMATELY 10LF FROM MH 8" SEWER INV=87.83 (CONTRACTOR TO VERIFY DEPTH)

## TENAYA DRIVE (WEST OF KERR AVE)



**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL

TENAYA DRIVE  
STA. 21+60 TO STA. 25+05  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

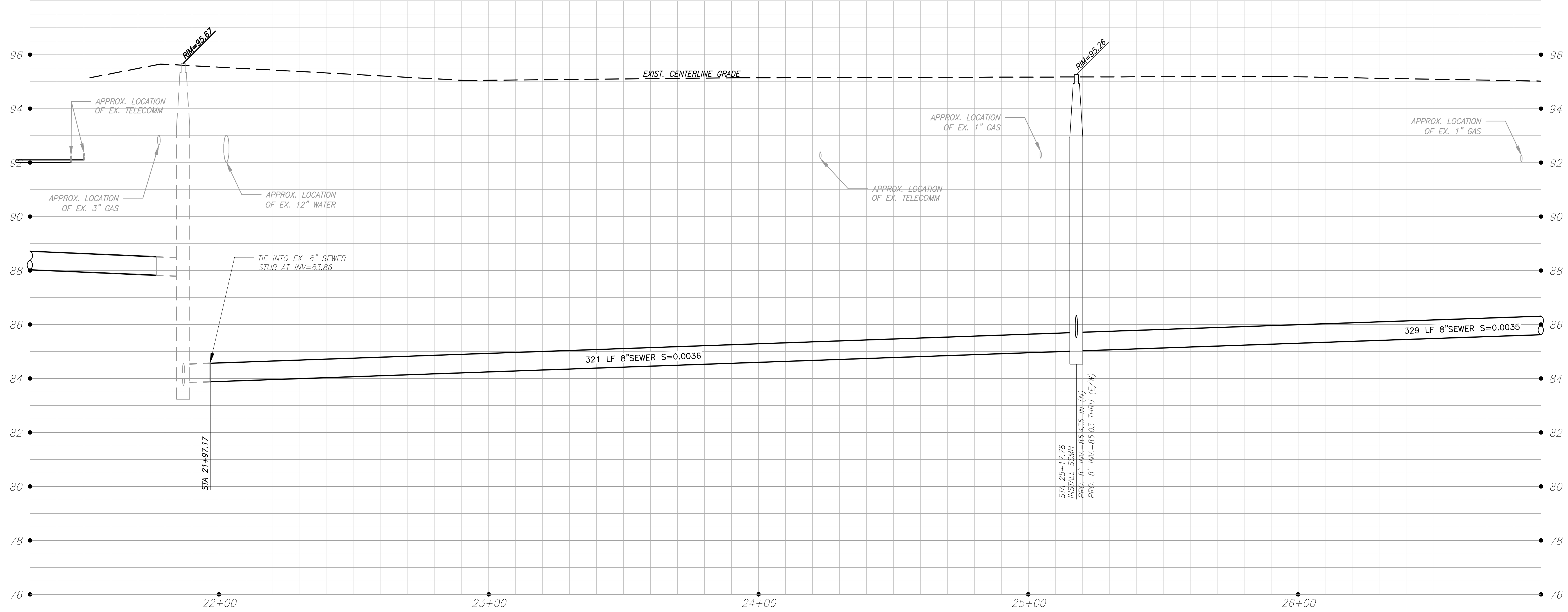
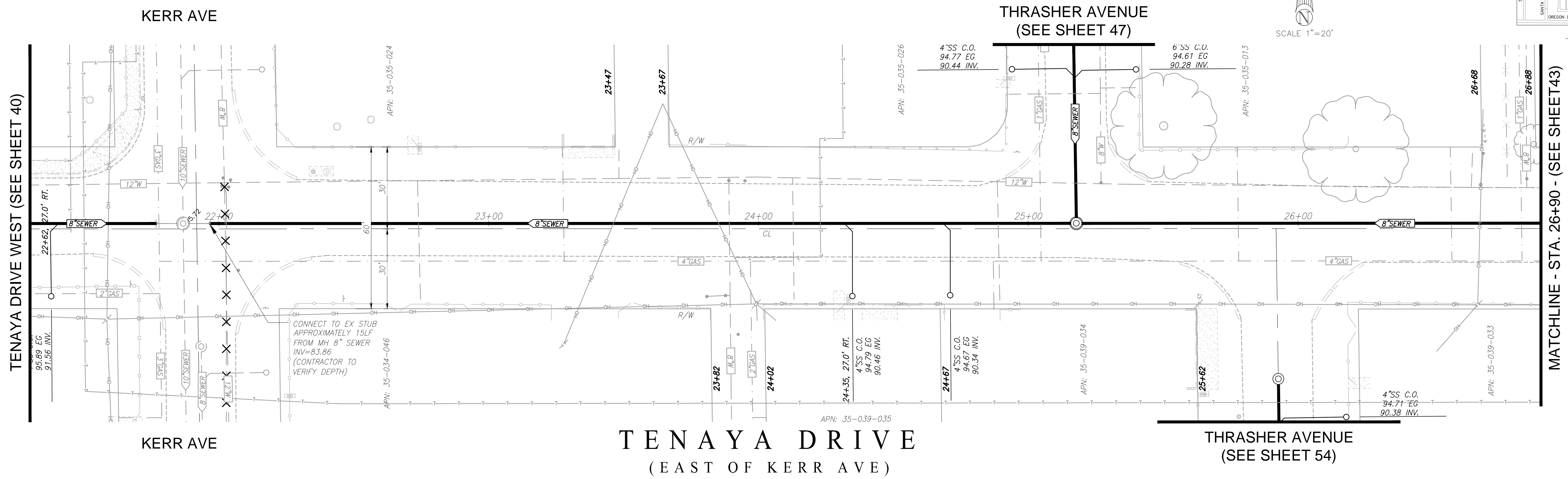
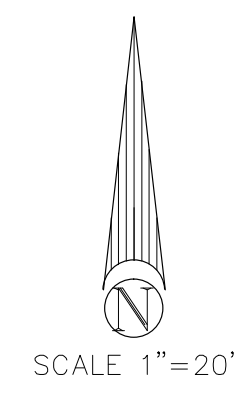
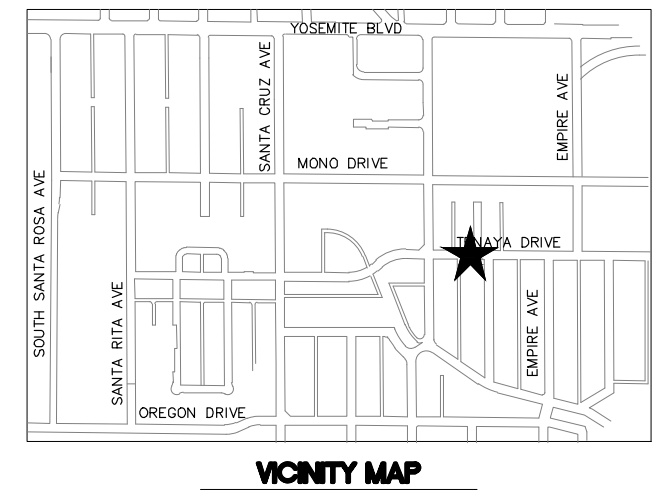
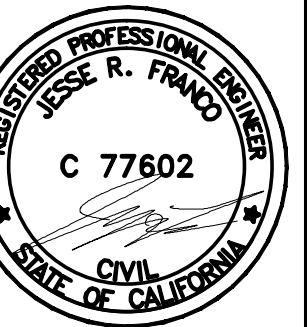
JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK&L/C  
CK BY PK&L/C  
SCALE VARIES

SHEET NUMBER  
**40**  
OF 75 SHEETS

04/27/2016 4:50pm  
 C:\Users\jfranco\Documents\Projects\Tenaya\Tenaya.dwg 35-48 Kerr Mod.dwg



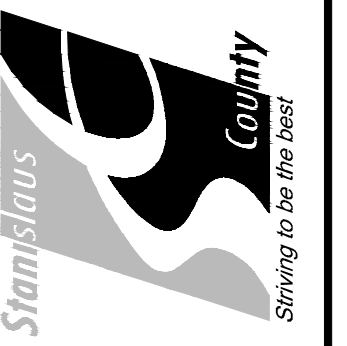




PREPARED UNDER THE DIRECTION OF:

NO.	REVISIONS	DATE	APPROVED

**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



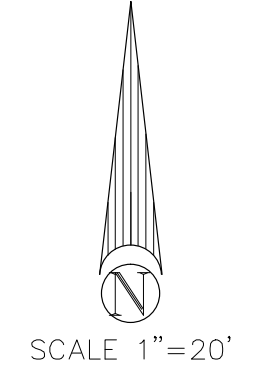
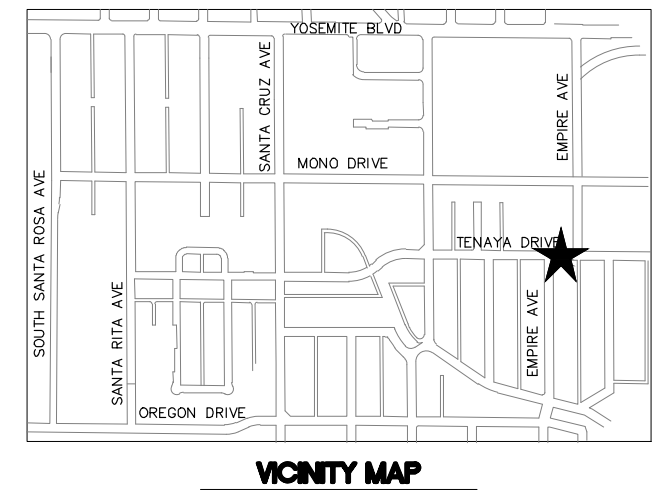
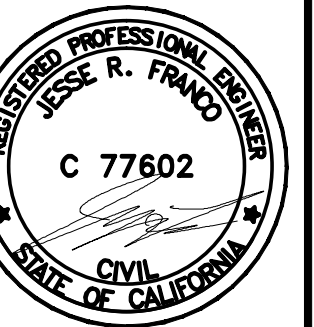
TENAYA DRIVE  
 STA. 21+30 TO STA. 26+90  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO: UPPSWR01  
 DATE: 06/07/2016  
 DR BY: PK&LC  
 CK BY: PK&LC  
 SCALE: VARIES

SHEET NUMBER  
**42**  
 OF 75 SHEETS

**PROFILE SCALE**  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL

04/27/2016 4:21pm C:\Users\jfranco\Documents\Projects\Tenaya\Tenaya.dwg 35-48 Kerr Main.dwg



NO	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



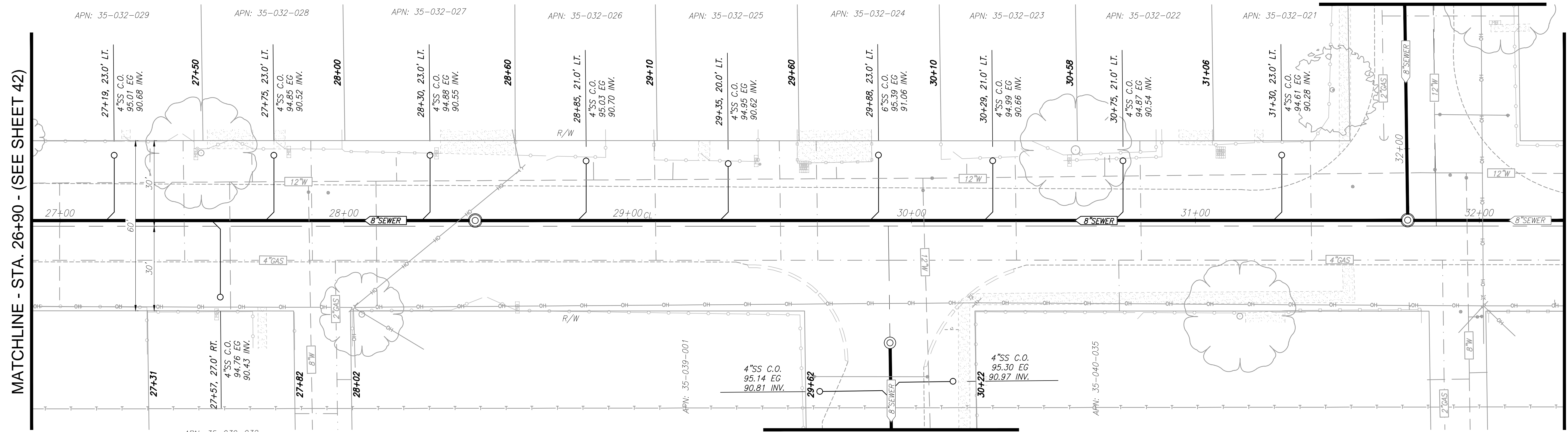
TENAYA DRIVE  
 STA. 26+90 TO STA. 32+30  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO UPPSWR01  
 DATE 06/07/2016  
 DR BY PK&LC  
 CK BY PK&LC  
 SCALE VARIES

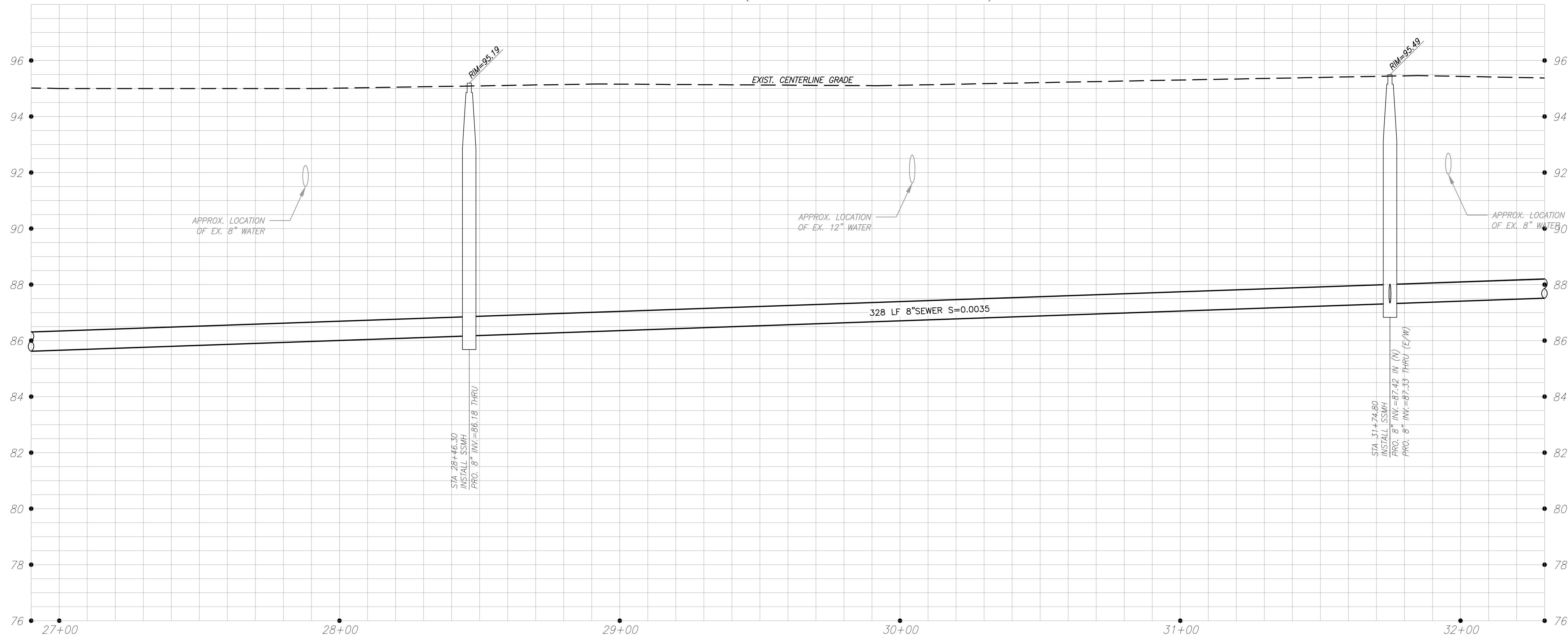
SHEET NUMBER  
**43**  
 OF 75 SHEETS

MATCHLINE - STA. 26+90 - (SEE SHEET 42)

MATCHLINE - STA. 32+30 - (SEE SHEET 44)

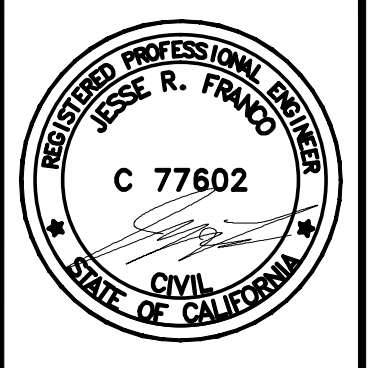
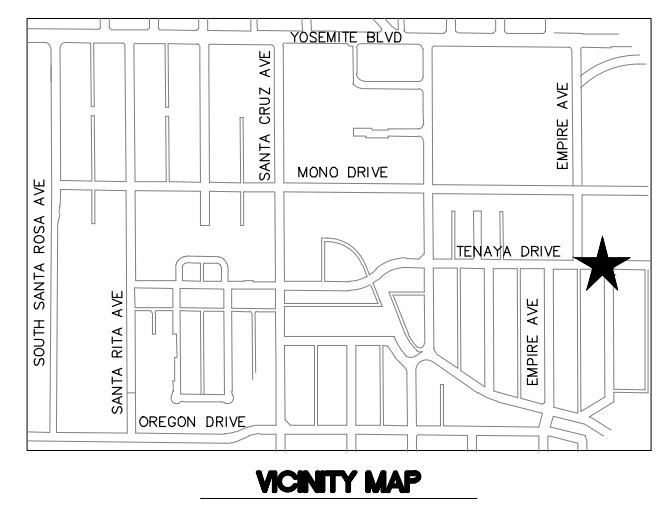
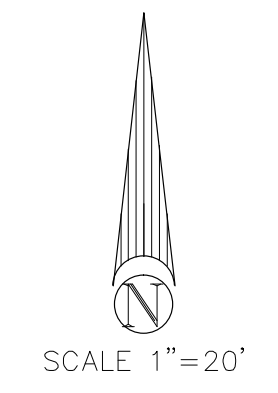
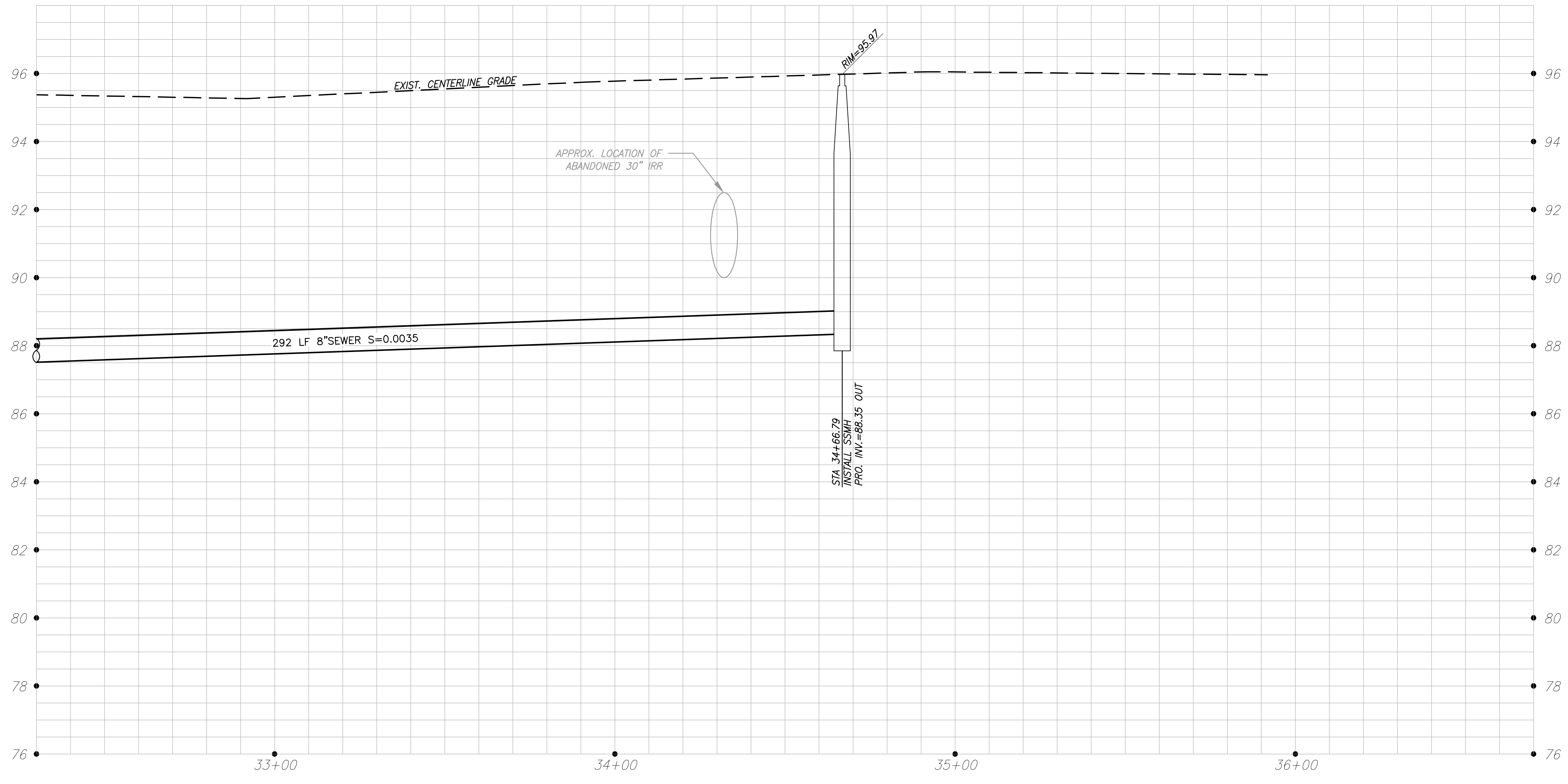
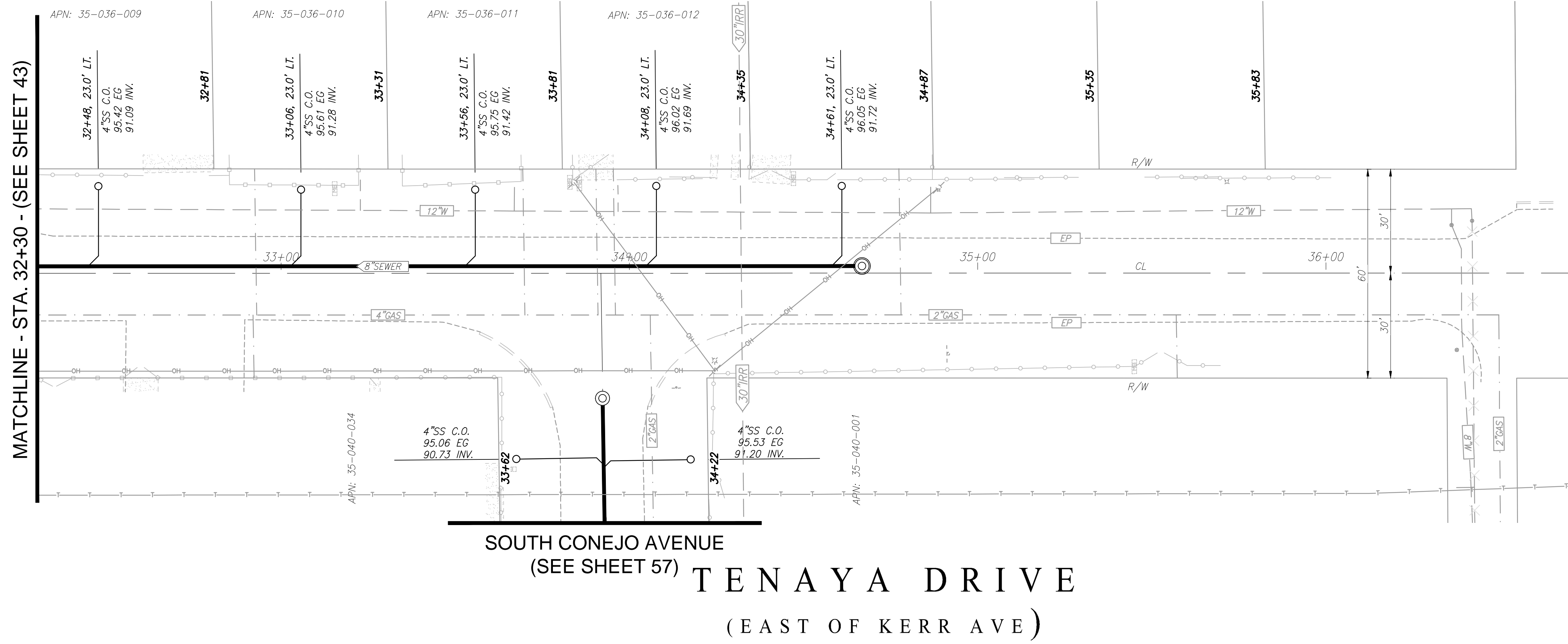


EMPIRE AVENUE (SEE SHEET 51)  
**TENAYA DRIVE**  
 (EAST OF KERR AVE)



PROFILE SCALE  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL

06/27/2016 4:21pm C:\Users\kerr\Documents\Projects\Tenaya Drive Sewer Improvements\Tenaya Drive Sewer Improvements.dwg 35-48 Kerr Mod.dwg

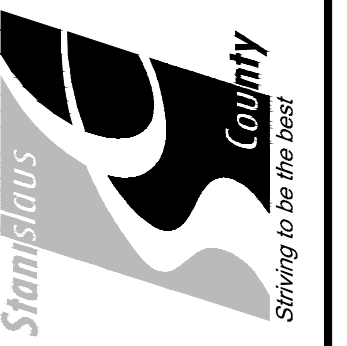


PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



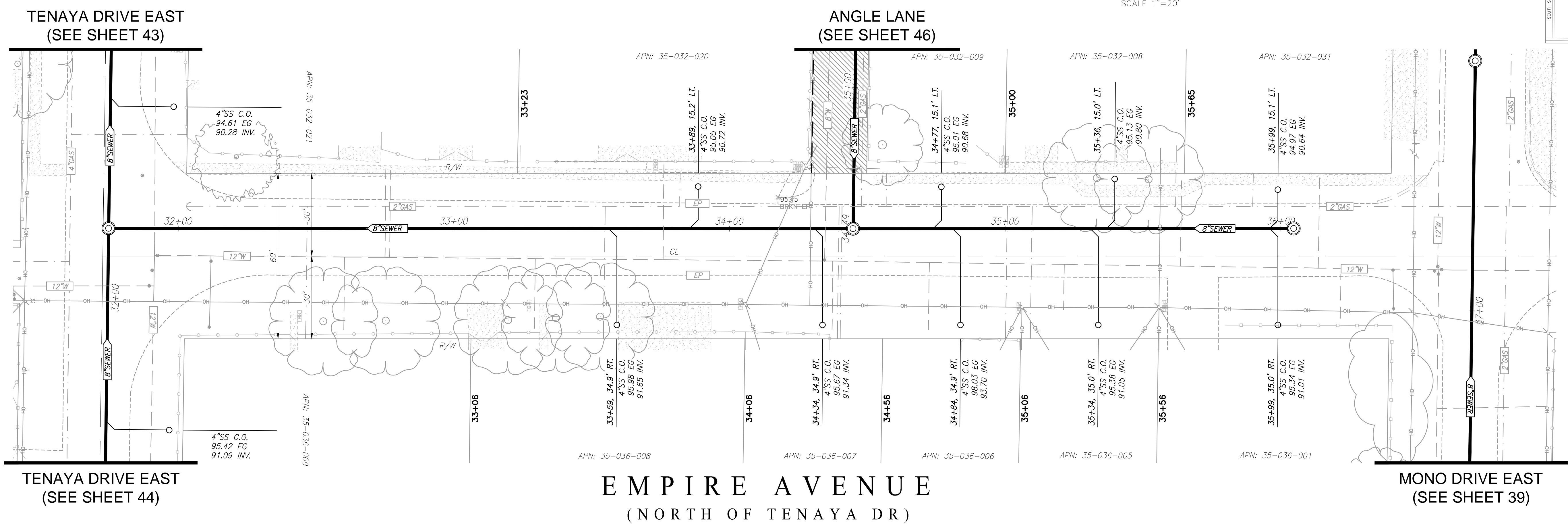
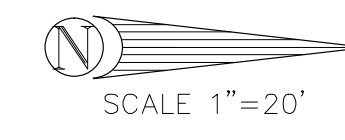
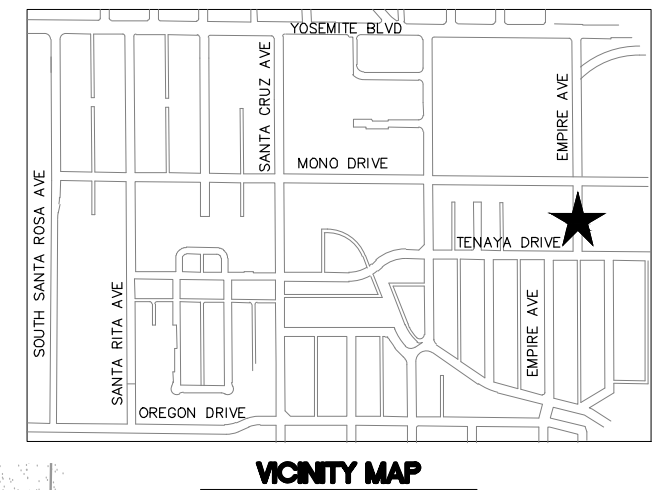
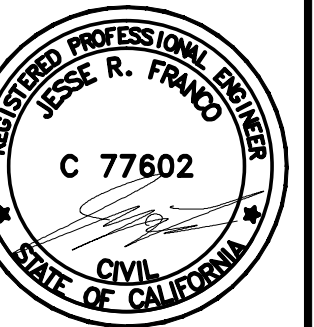
TENAYA DRIVE  
 STA. 32+30 TO STA. 34+67  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO: UPPSWR01  
 DATE: 06/07/2016  
 DR BY: PK&LC  
 CK BY: PK&LC  
 SCALE: VARIES

**PROFILE SCALE**  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL

SHEET NUMBER  
**44**  
 OF 75 SHEETS

06/27/2016 4:21pm C:\Users\jfranco\Documents\Projects\Tenaya\Tenaya.dwg 35+48 Kerr Mod.dwg

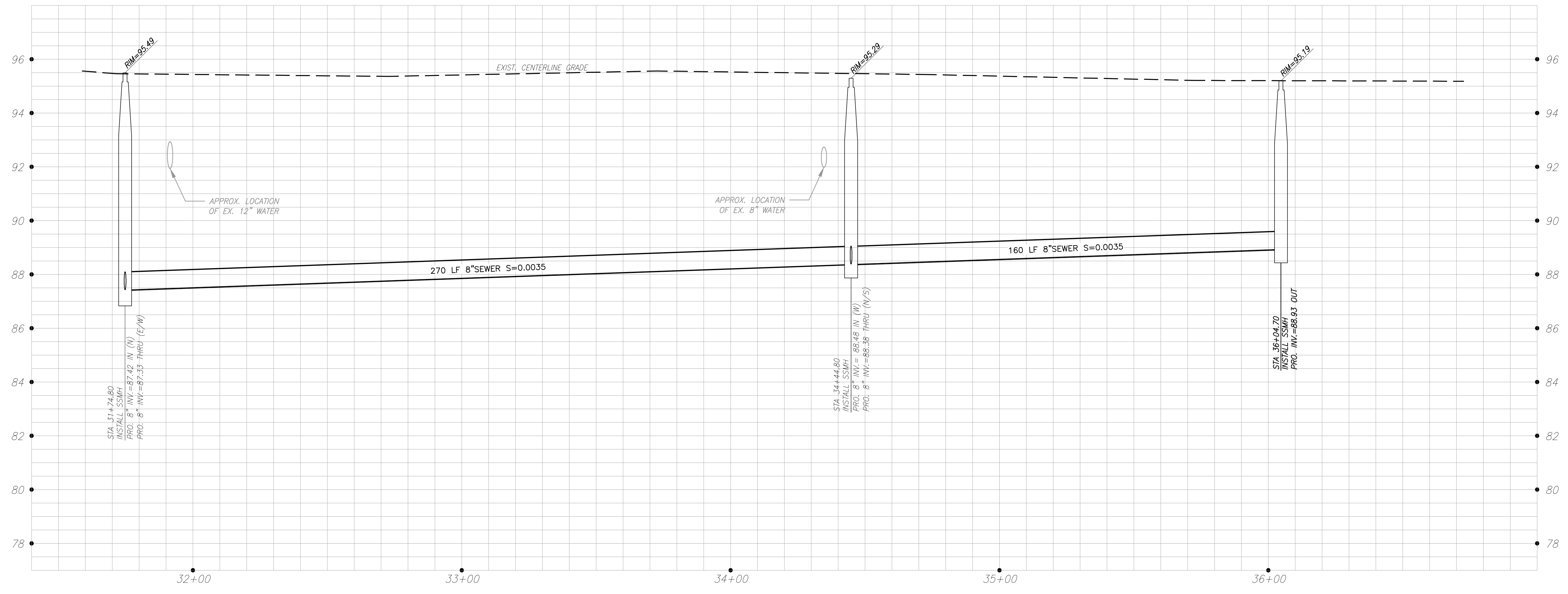


PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



**PROFILE SCALE**  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL

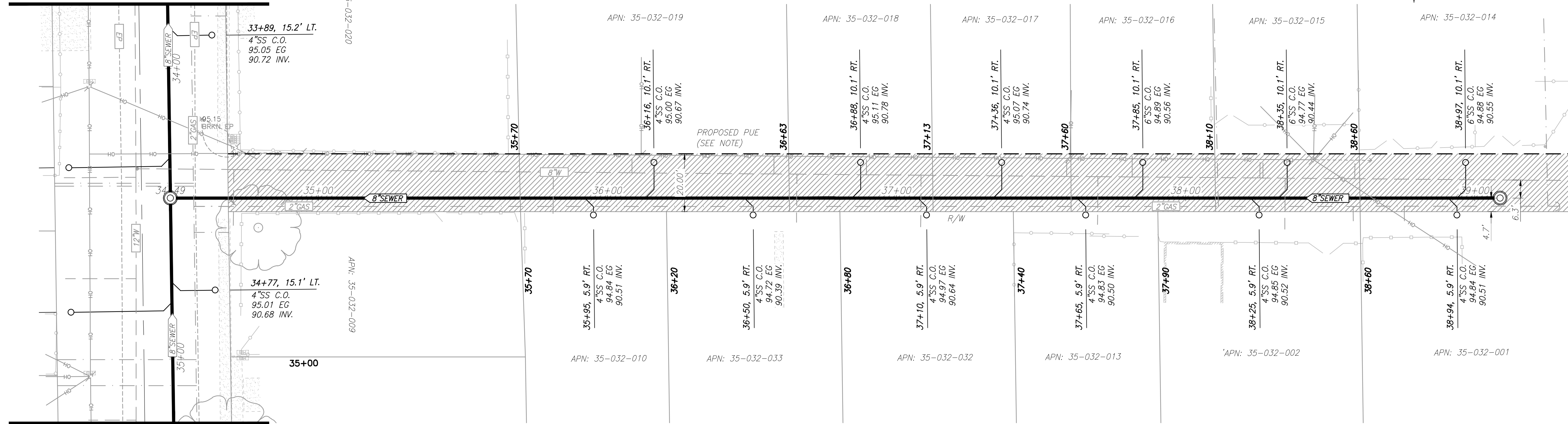
EMPIRE AVENUE  
 STA. 31+75 TO STA. 36+13  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO UPPSWR01  
 DATE 06/07/2016  
 DR BY PKM/C  
 CK BY PKM/C  
 SCALE VARIES

SHEET NUMBER  
**45**  
 OF 75 SHEETS

06/27/2016 4:51pm  
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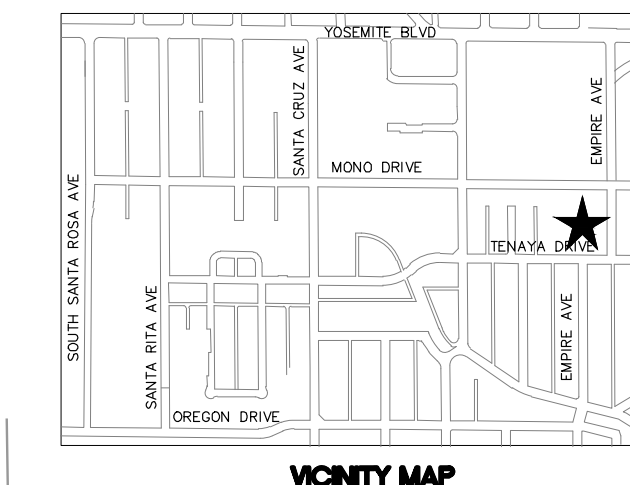
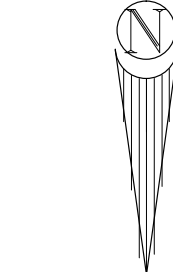
EMPIRE AVENUE  
(SEE SHEET 45)



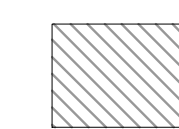
EMPIRE AVENUE  
(SEE SHEET 45)

ANGLE LANE

SCALE 1"=20'



VICINITY MAP

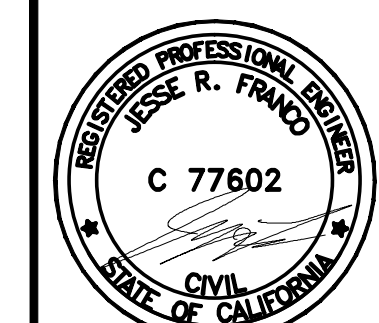


INSTALL 2" AB SECTION

NOTE: STANISLAUS COUNTY MUST ACQUIRE A SEWER EASEMENT PRIOR TO INSTALLATION OF SEWER MAIN. CONTACT ENGINEER OF RECORD PRIOR TO CONSTRUCTION.

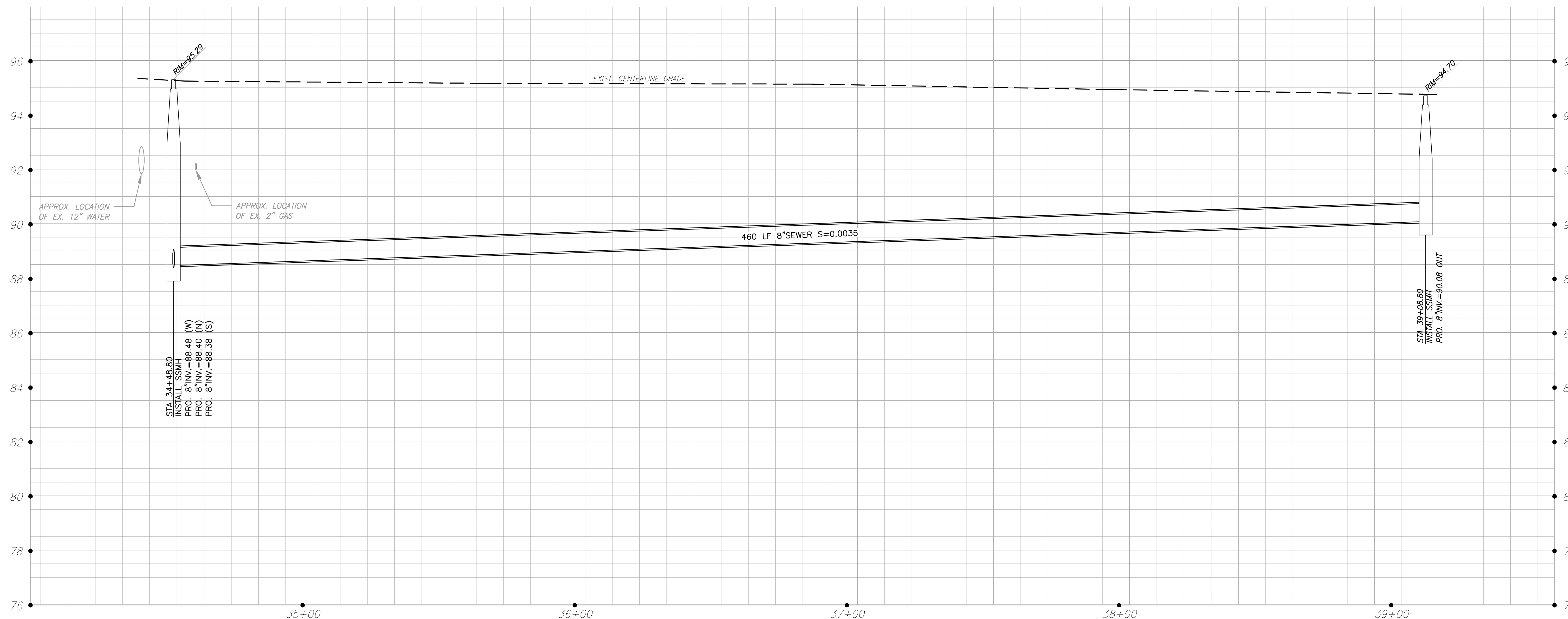


CALL BEFORE YOU DIG



NO.	DESCRIPTIONS	DATE	APPROVED

STANISLAUS COUNTY  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



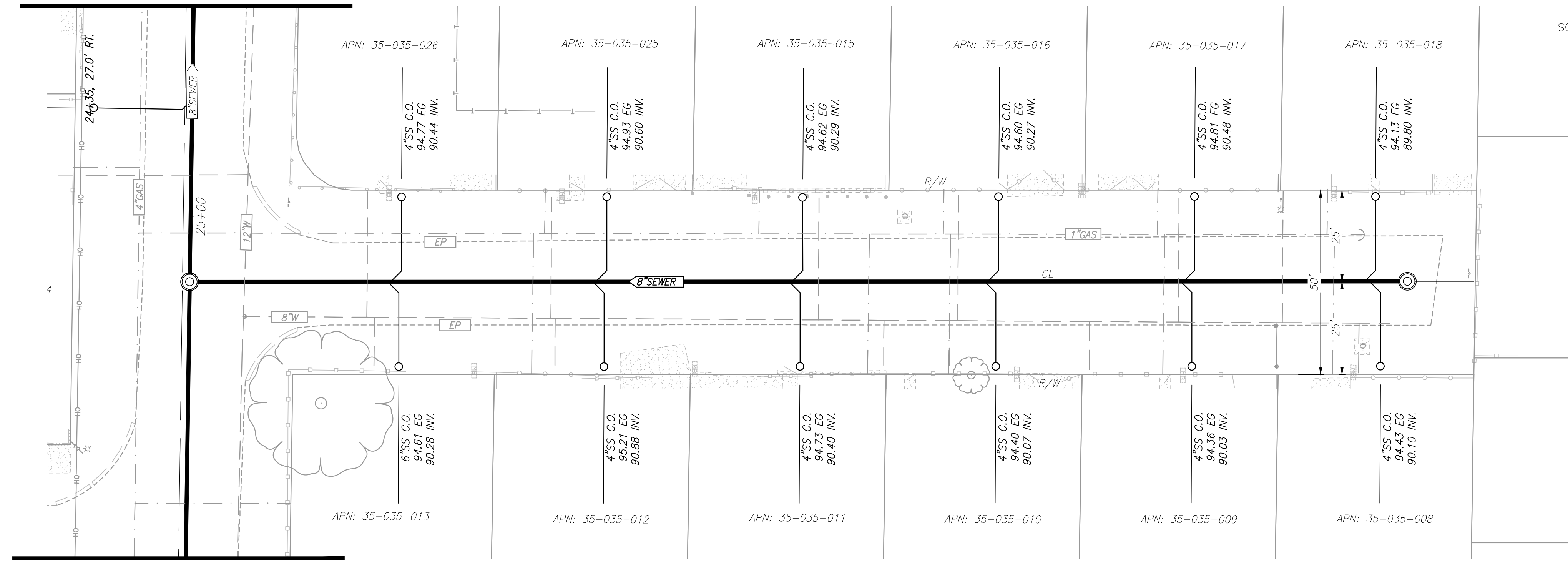
PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL

ANGLE LANE  
STA. 34+49 TO STA. 39+09  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PKMLC  
CK BY PKMLC  
SCALE VARIES

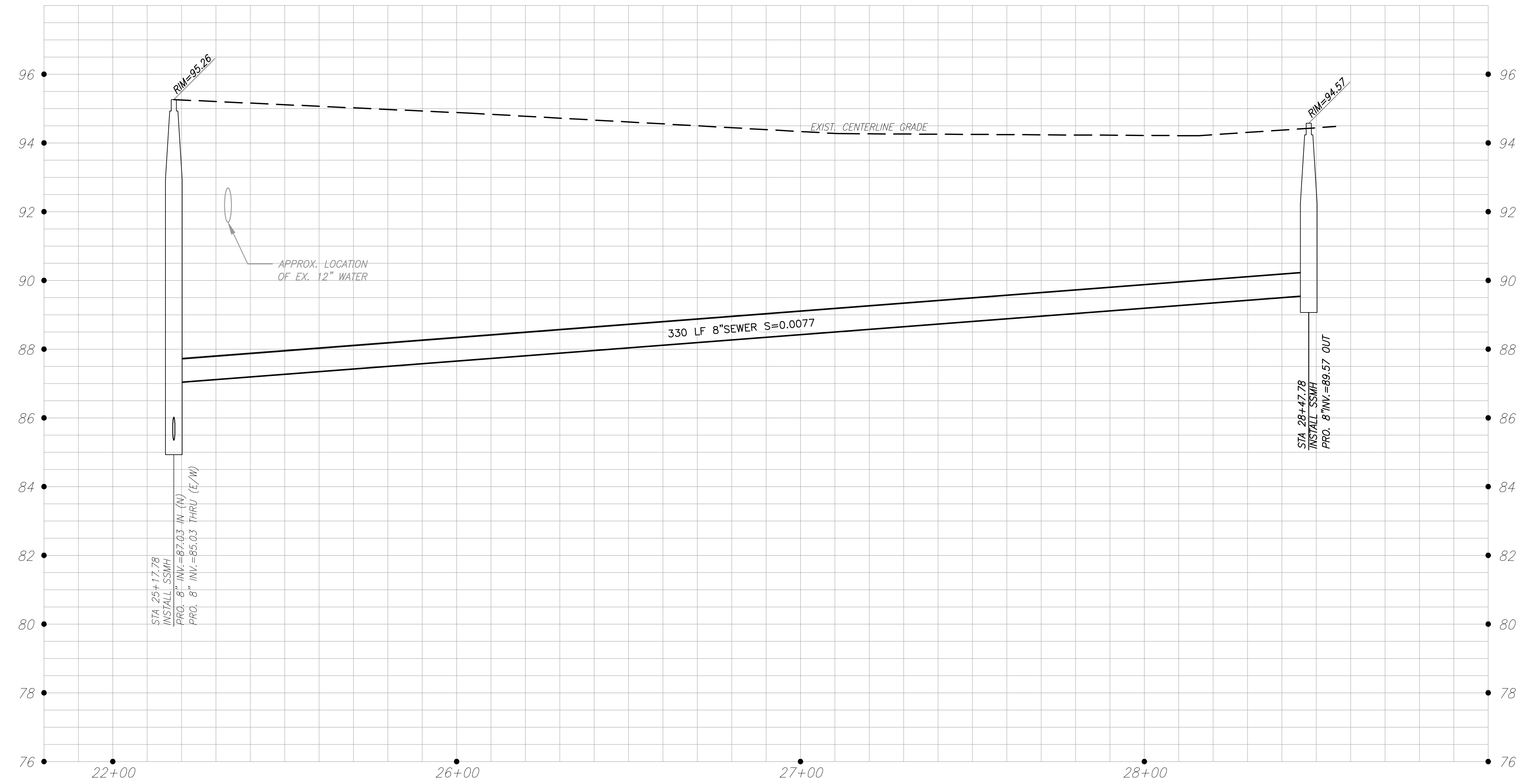
SHEET NUMBER  
**46**  
OF 75 SHEETS

TENAYA DRIVE EAST  
(SEE SHEET 42)

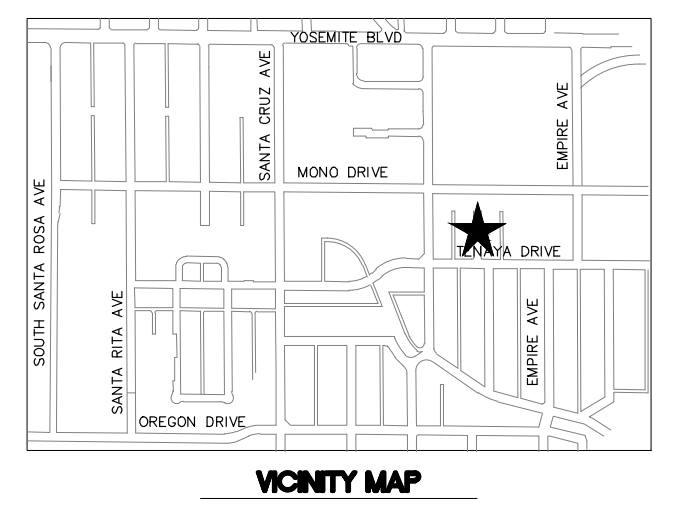


TENAYA DRIVE EAST  
(SEE SHEET 42)

THRASHER AVE  
(NORTH OF TENAYA DR)



SCALE 1"=20'

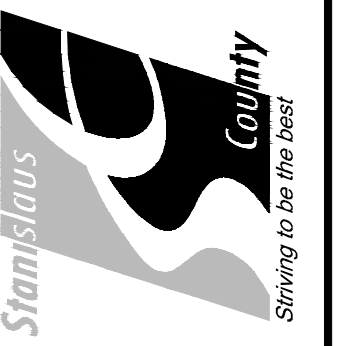


PREPARED UNDER THE DIRECTION OF:

NO	DESCRIPTIONS	DATE	APPROVED



STANISLAUS COUNTY  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



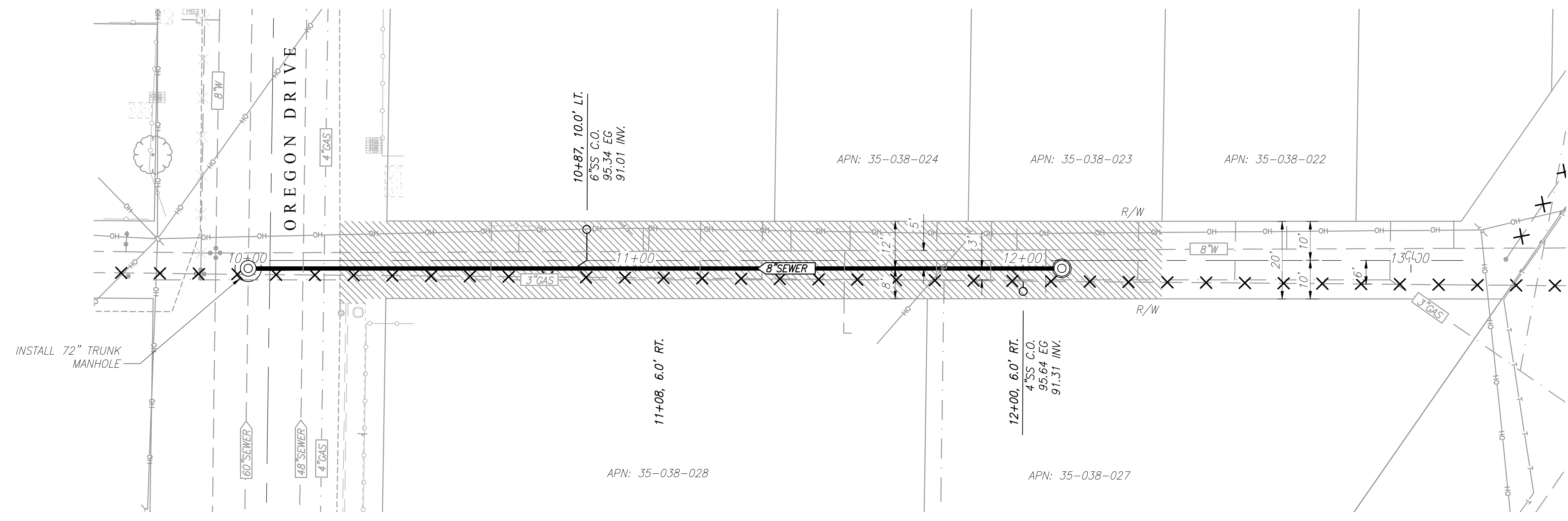
THRASHER AVENUE  
STA. 25+18 TO STA. 28+48  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK&LC  
CK BY PK&LC  
SCALE VARIES

PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL

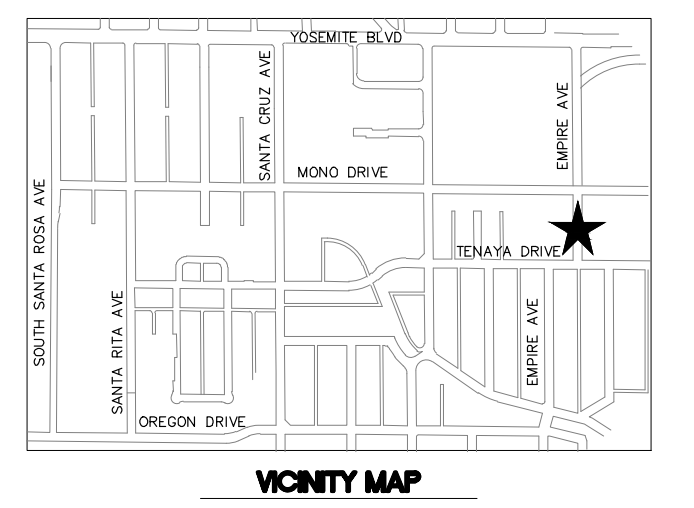
SHEET NUMBER  
47  
OF 75 SHEETS

06/27/2016 4:21pm C:\Users\jfranco\Documents\Projects\160616\160616\160616.dwg 35-48 Kerr Mod.dwg



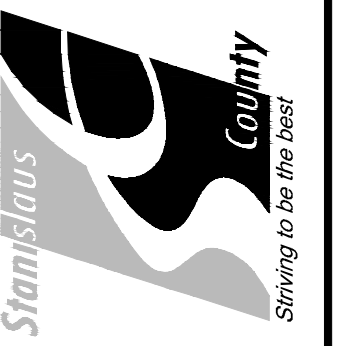
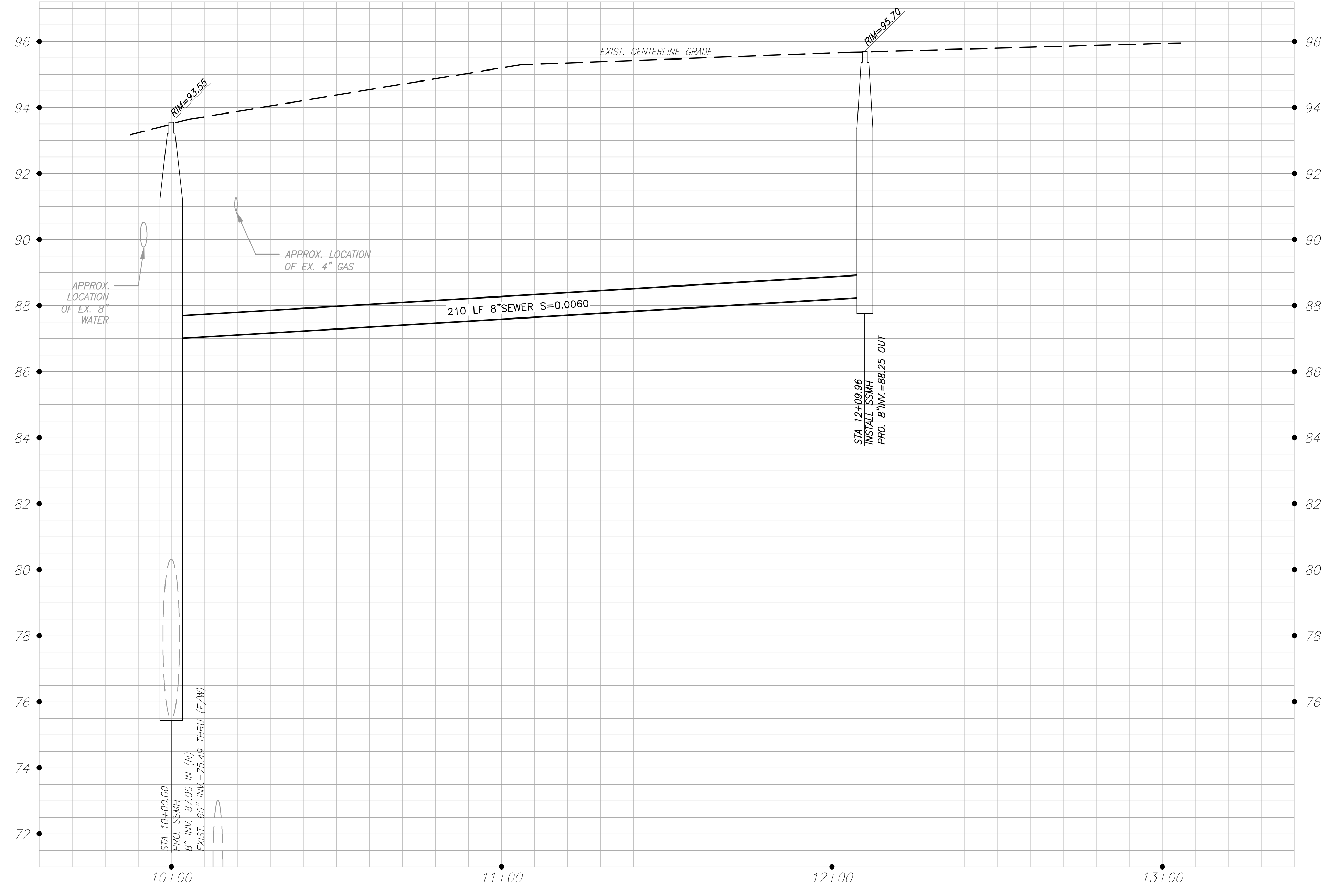
SCALE 1"=20'

INSTALL 2" AB SECTION



NO.	DESCRIPTIONS	DATE	APPROVED

## BLOCK 2106 ALLEY (EAST OF KERR)



**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358

BLOCK 2106 ALLEY  
STA. 10+00 TO STA. 12+10  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

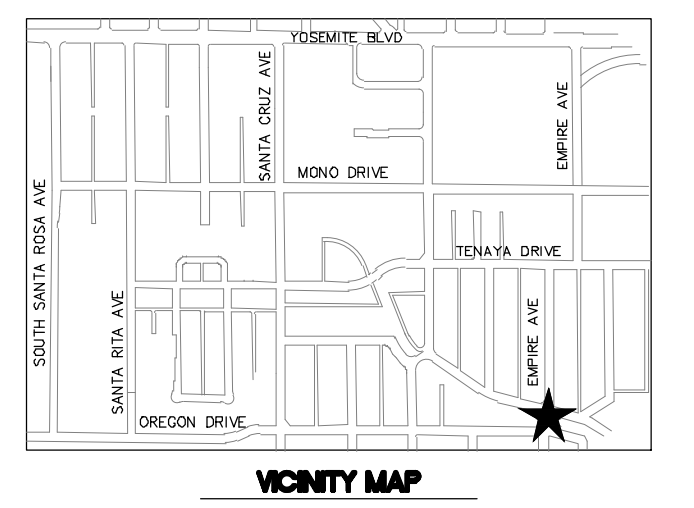
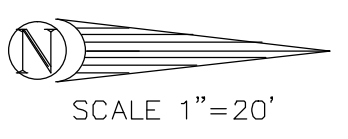
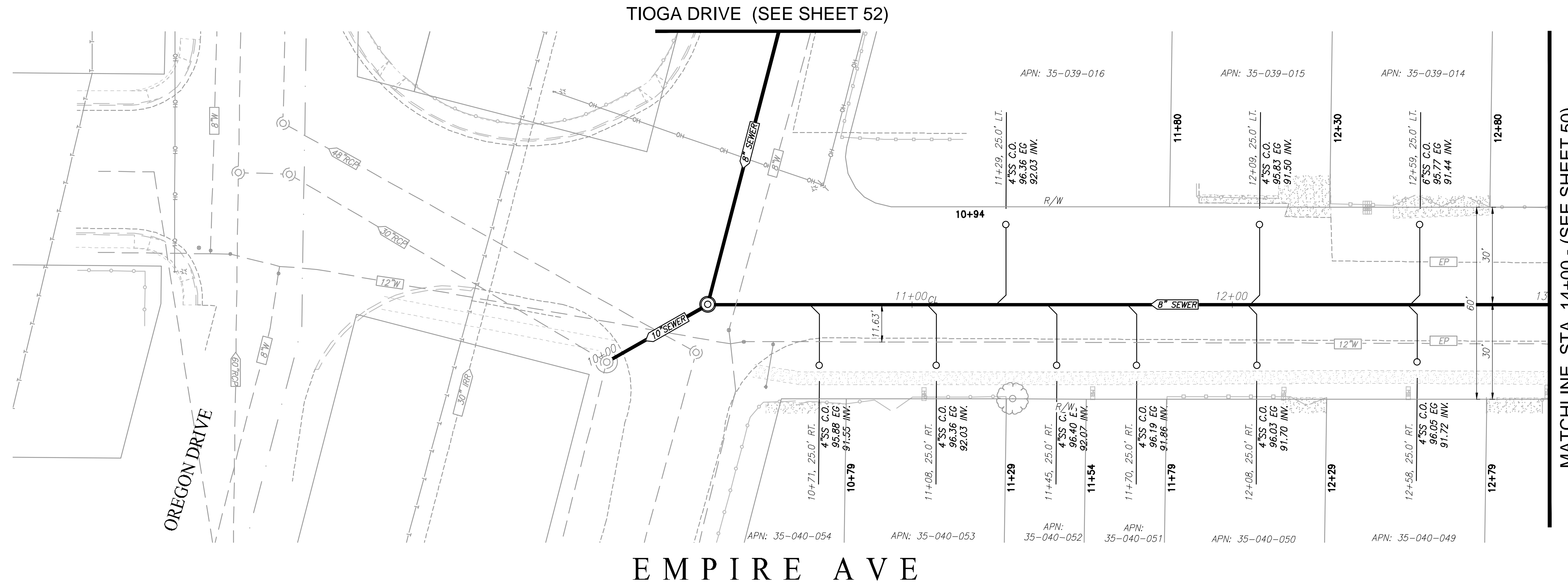
JOB NO. UPPSWR01  
DATE 06/07/2016  
DR BY PK&LC  
CK BY PK&LC  
SCALE VARIES

PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL

SHEET NUMBER  
**48**  
OF 75 SHEETS

06/27/2016 4:21pm C:\Users\jfranco\Documents\Projects\2106\2106.dwg



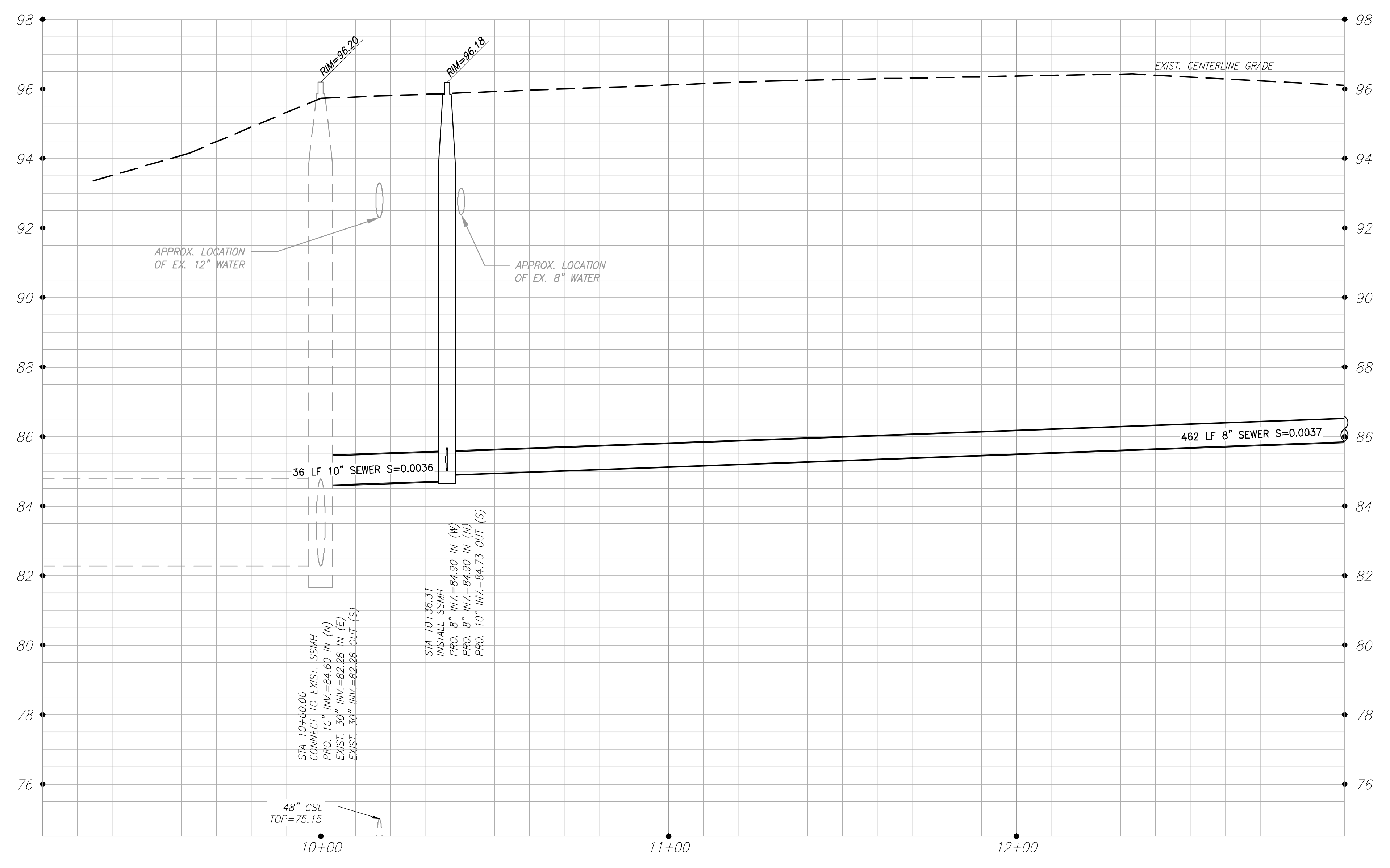


NO.	DESCRIPTIONS	DATE	APPROVED

DATE: \_\_\_\_\_

PREPARED UNDER THE DIRECTION OF:

EMPIRE AVE



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358

EMPIRE AVENUE  
 STA. 10+00 TO STA. 14+00  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

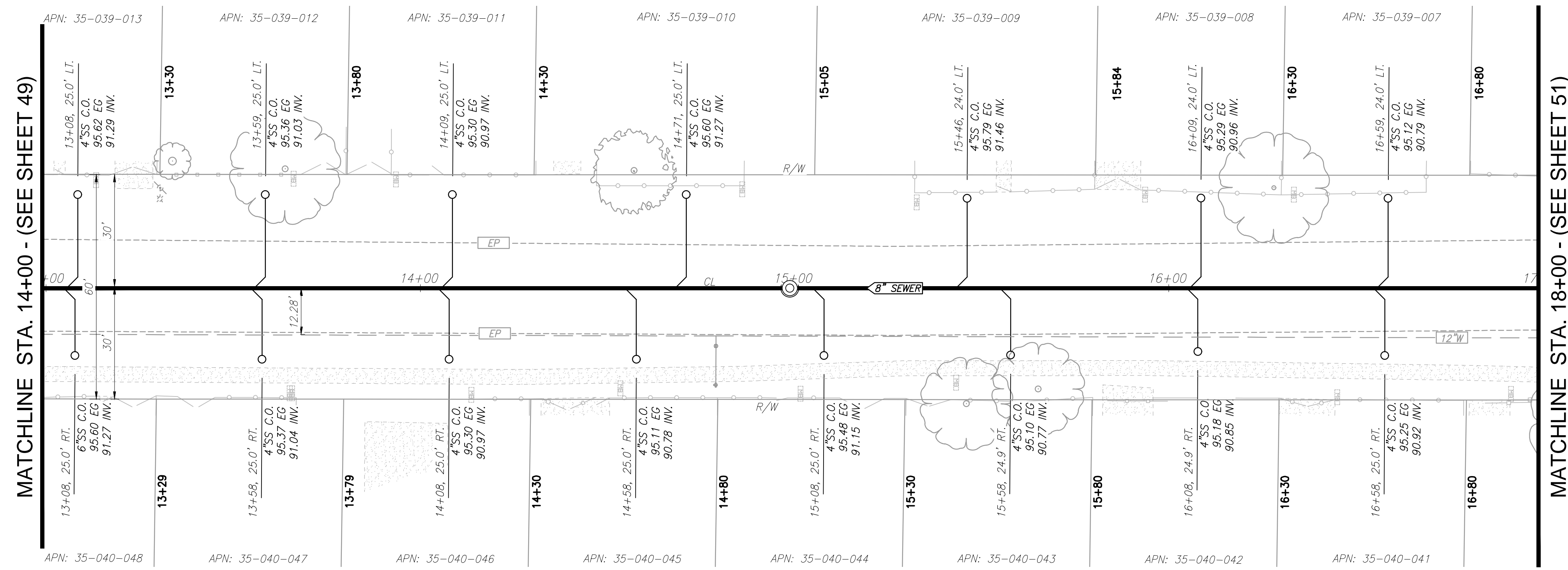
JOB NO UPPSWR01  
 DATE 06/07/2016  
 DR BY PK.M.C  
 CK BY PK.M.C  
 SCALE VARIES

SHEET NUMBER  
**49**  
 OF 75 SHEETS

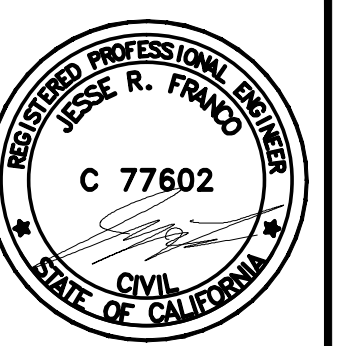
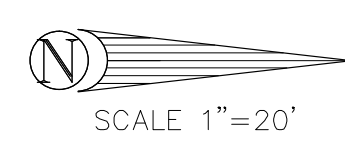
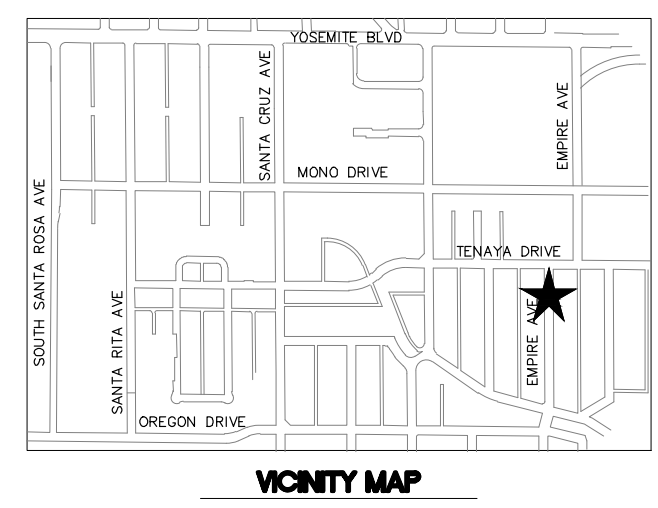
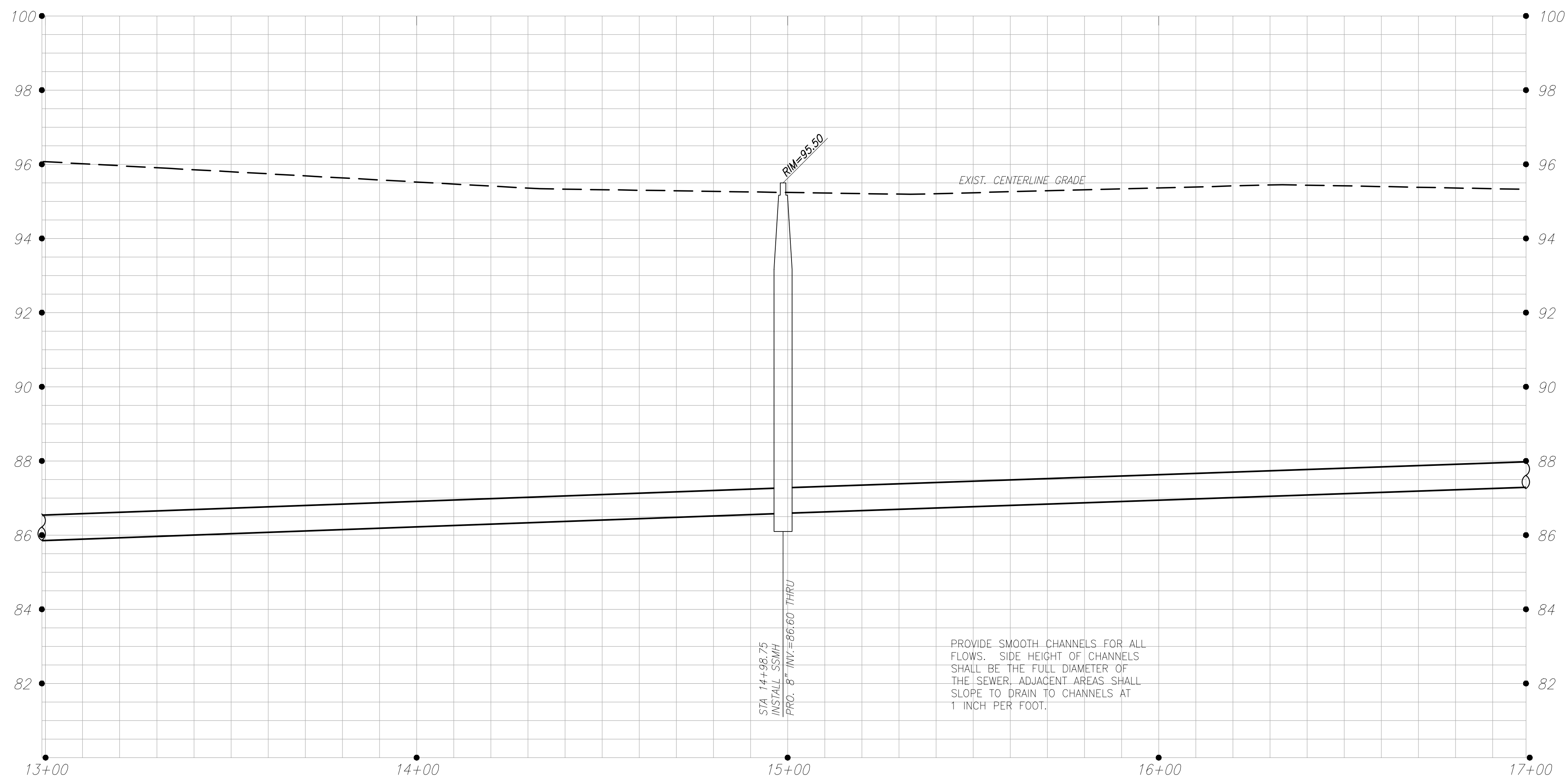
PROFILE SCALE  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL

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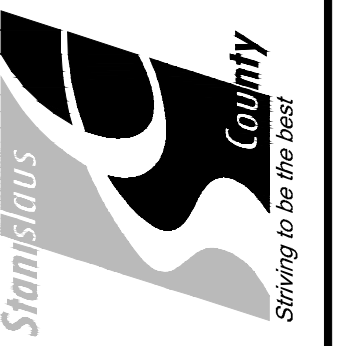


## EMPIRE AVE



PREPARED UNDER THE DIRECTION OF:	
NO.	DESCRIPTIONS
REVISIONS	DATE
APPROVED	DATE

**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



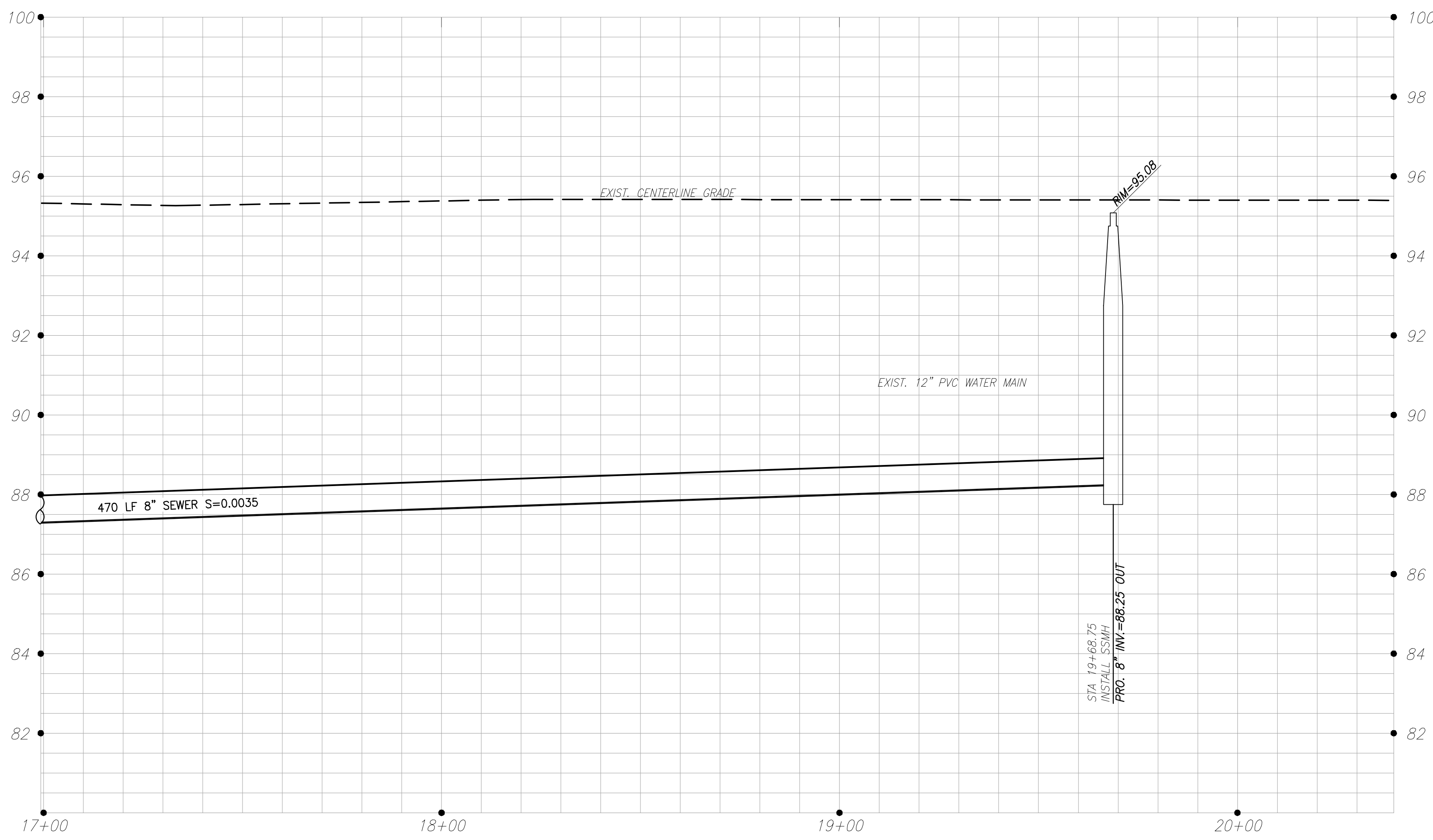
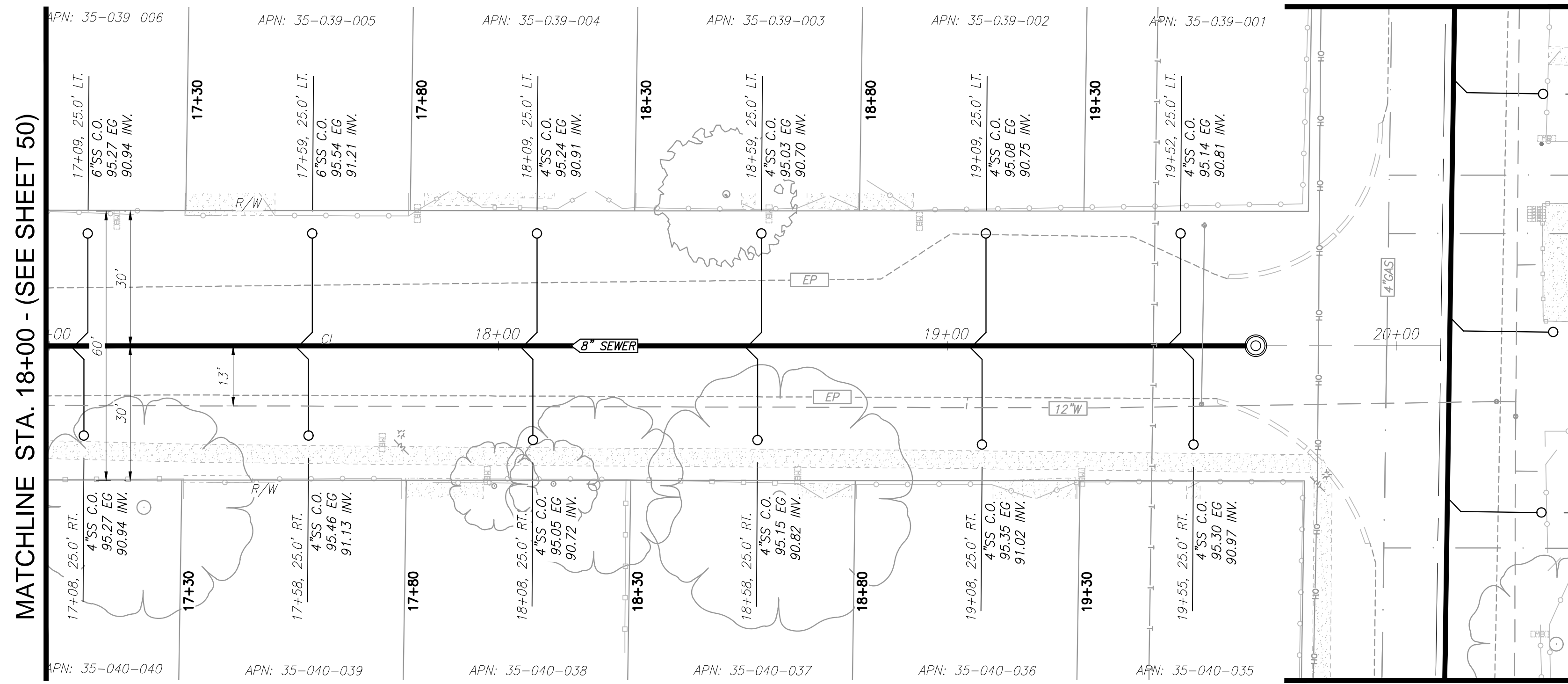
EMPIRE AVENUE  
 STA. 14+00 TO STA. 18+00  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO: UPPSWR01  
 DATE: 06/07/2016  
 DR BY: PKM/C  
 CK BY: PKM/C  
 SCALE: VARIES

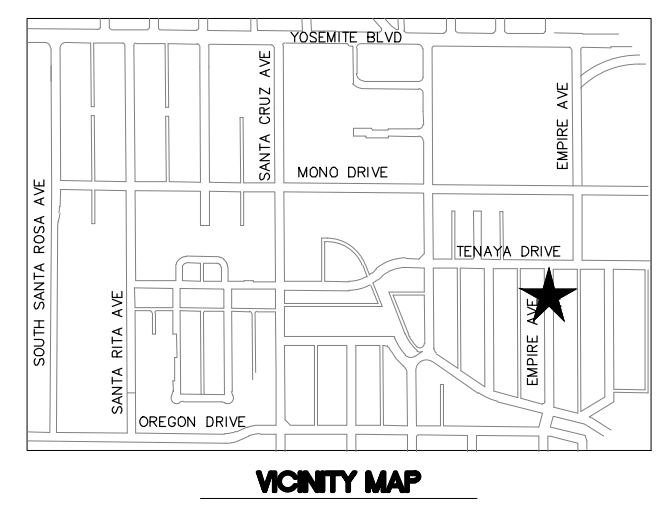
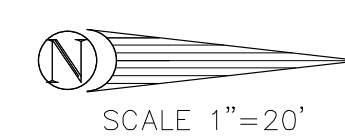
**PROFILE SCALE**  
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 1" = 2' VERTICAL

SHEET NUMBER  
**50**  
 OF 75 SHEETS

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**PROFILE SCALE**  
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 1" = 2' VERTICAL

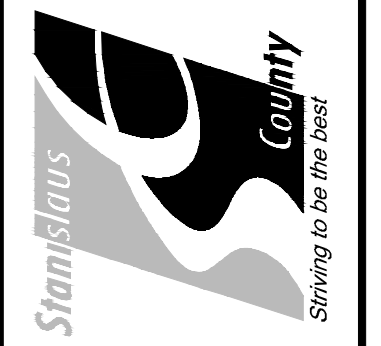


PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED



**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358

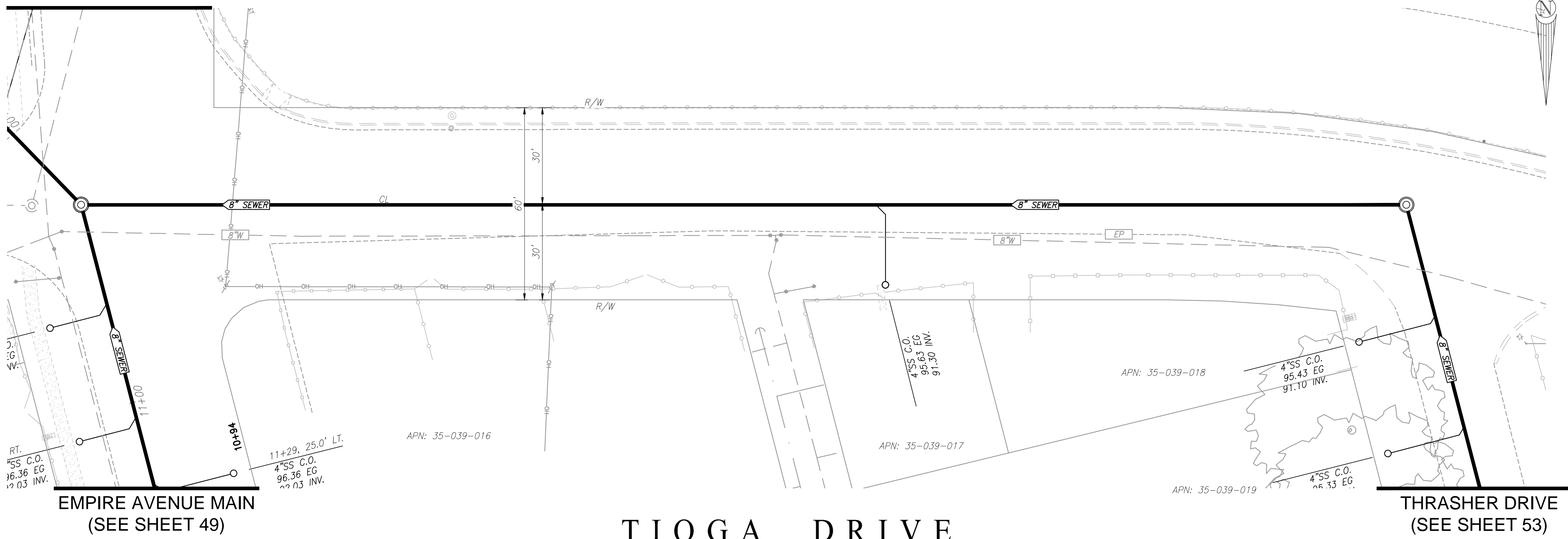


EMPIRE AVENUE  
 STA. 18+00 TO STA. 20+69  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO: UPPSWR01  
 DATE: 06/07/2016  
 DR BY: PK&LC  
 CK BY: PK&LC  
 SCALE: VARIES

SHEET NUMBER  
**51**  
 OF 75 SHEETS

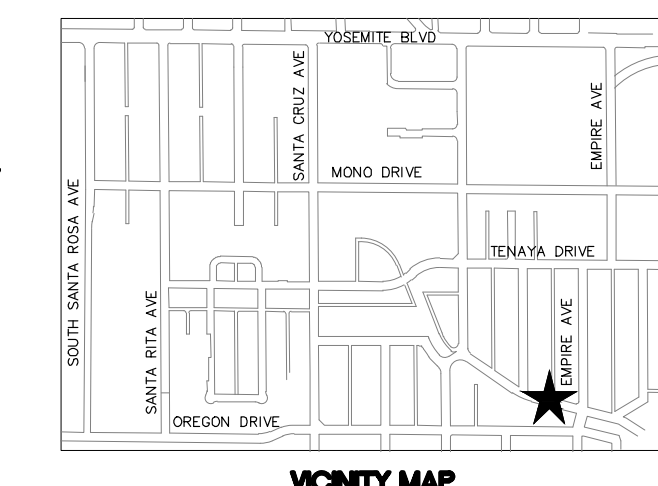
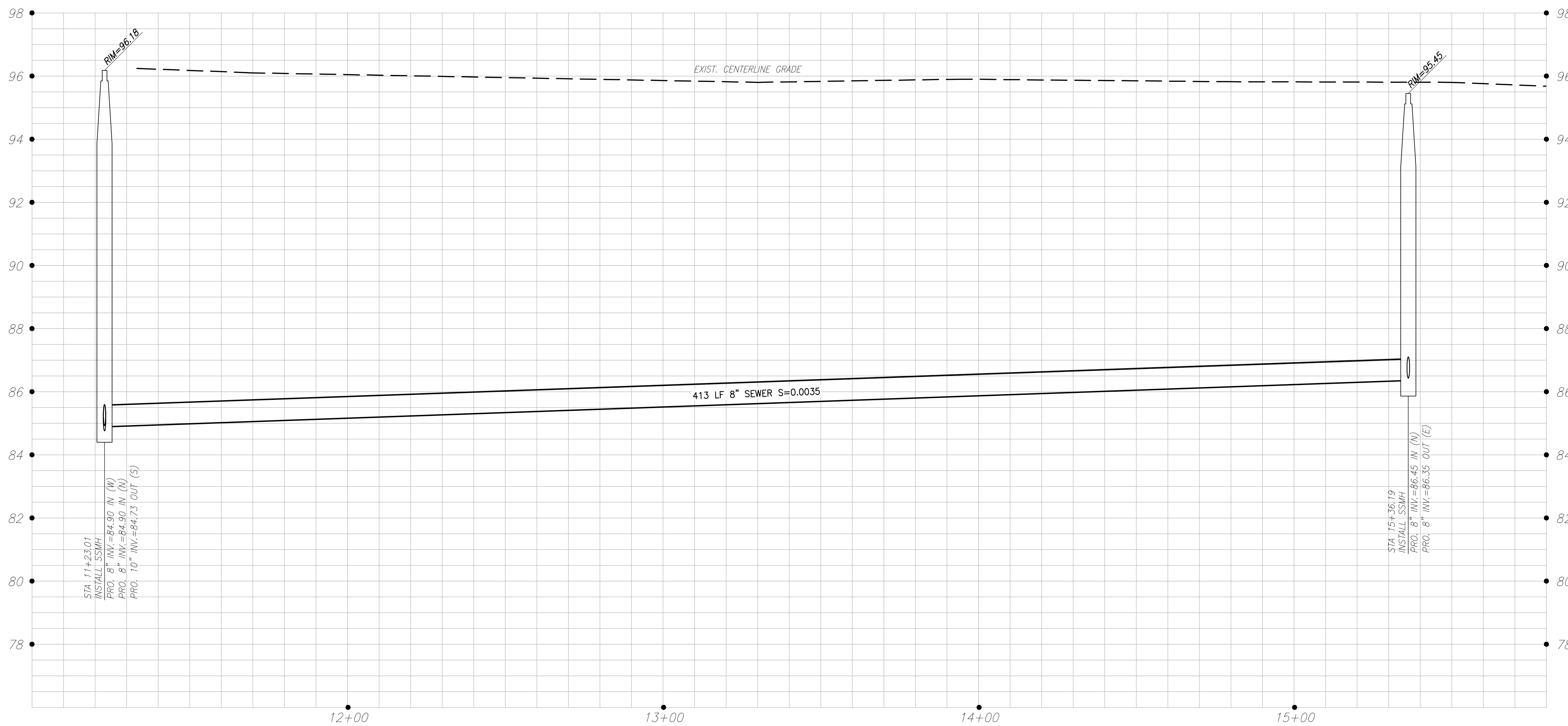
EMPIRE AVENUE MAIN  
(SEE SHEET 49)



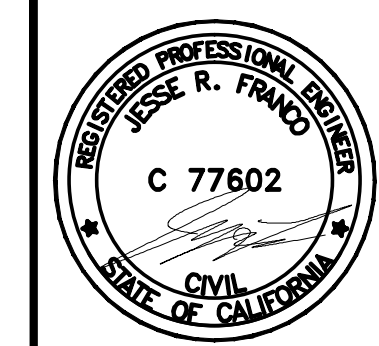
EMPIRE AVENUE MAIN  
(SEE SHEET 49)

THRASHER DRIVE  
(SEE SHEET 53)

TIOGA DRIVE



SCALE 1"=20'



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NO	DESCRIPTIONS	DATE	APPROVED



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DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



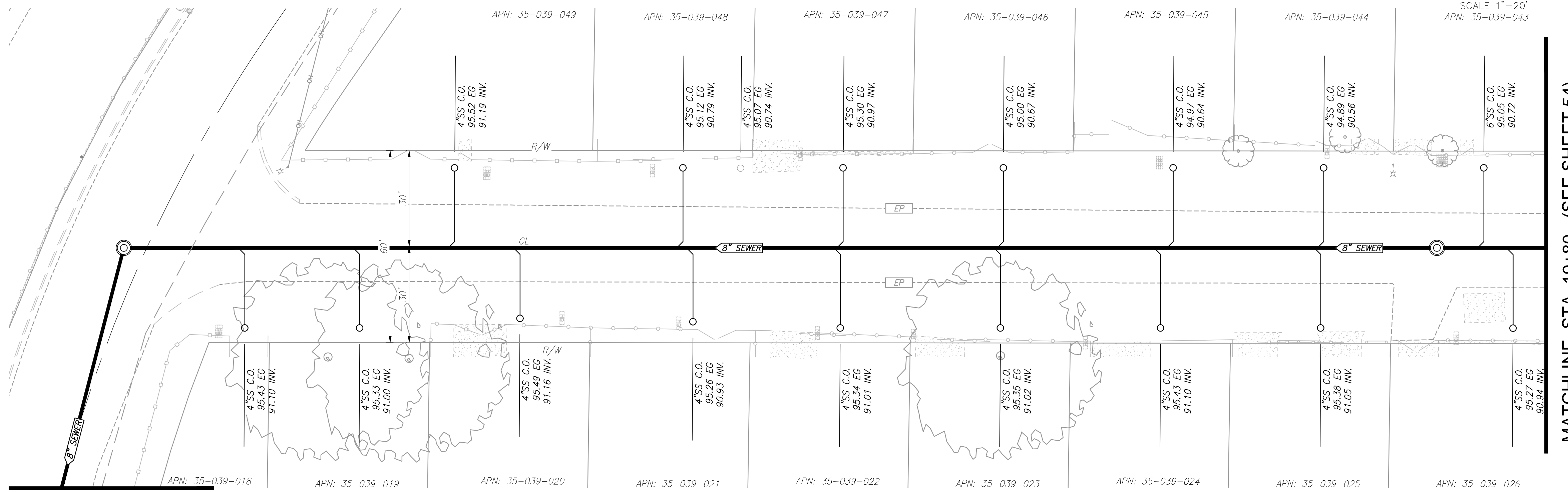
TIOGA DRIVE  
STA. 11+23 TO STA. 15+36  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK.M.C.  
CK BY PK.M.C.  
SCALE VARIES

PROFILE SCALE  
1"=20' HORIZONTAL  
1"=2' VERTICAL

SHEET NUMBER  
**52**  
OF 75 SHEETS

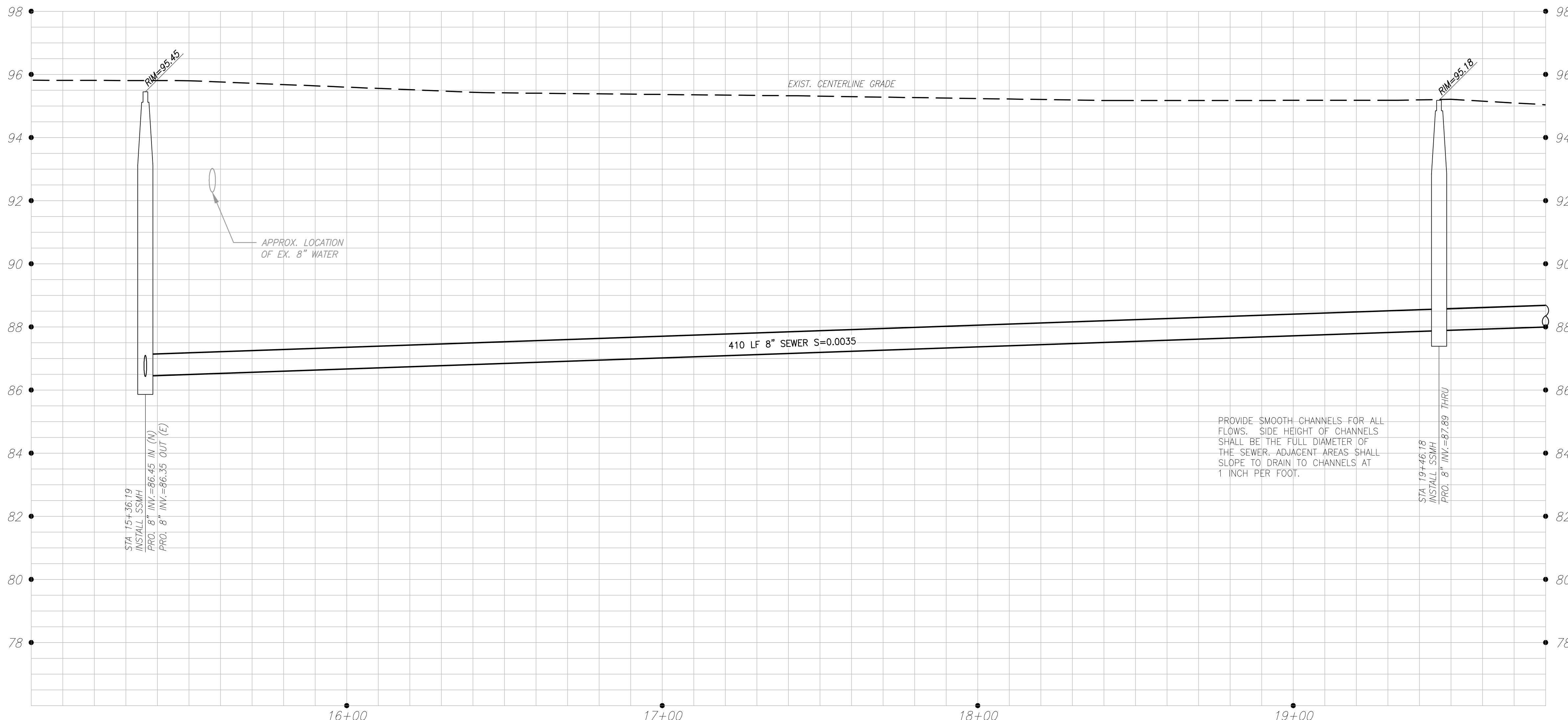
C:\Users\jfranco\Documents\Projects\Tioga\Tioga.dwg  
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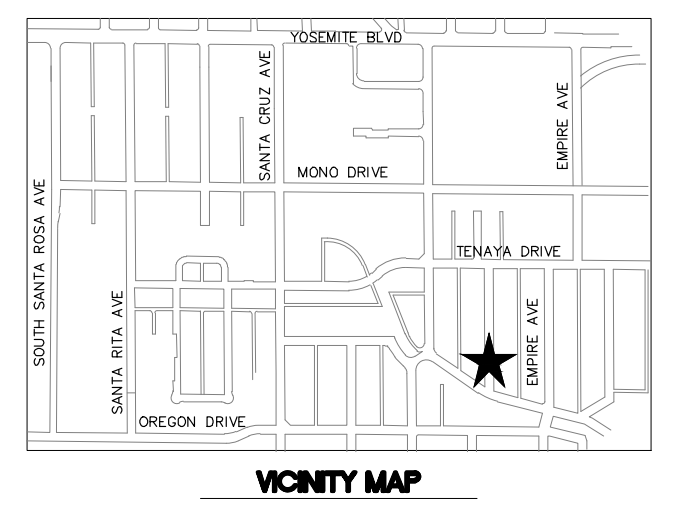
TIOGA DRIVE  
(SEE SHEET 52)

THRASHER AVE

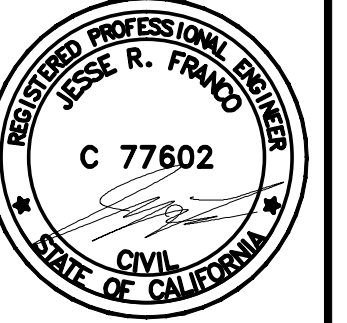
MATCHLINE STA. 19+80 - (SEE SHEET 54)



PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL



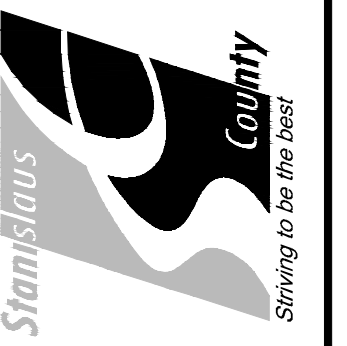
SCALE 1" = 20'  
APN: 35-039-043



NO	DESCRIPTIONS	DATE	APPROVED



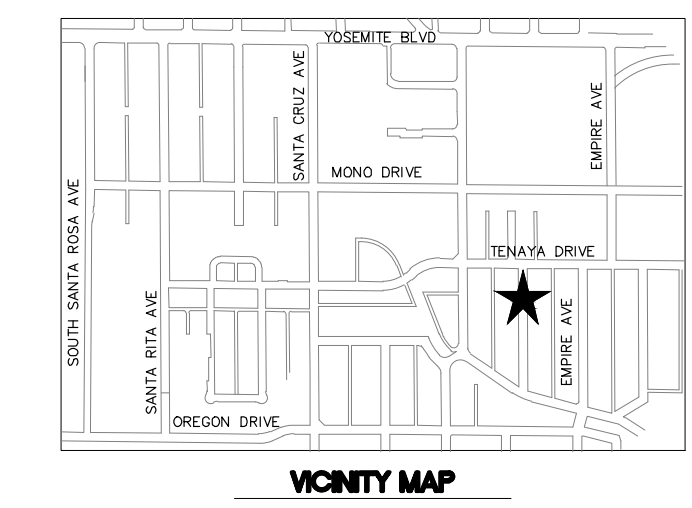
STANISLAUS COUNTY  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



THRASHER AVENUE  
STA. 15+36 TO STA. 19+80  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK.M.C.  
CK BY PK.M.C.  
SCALE VARIES

SHEET NUMBER  
53  
OF 75 SHEETS



PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED

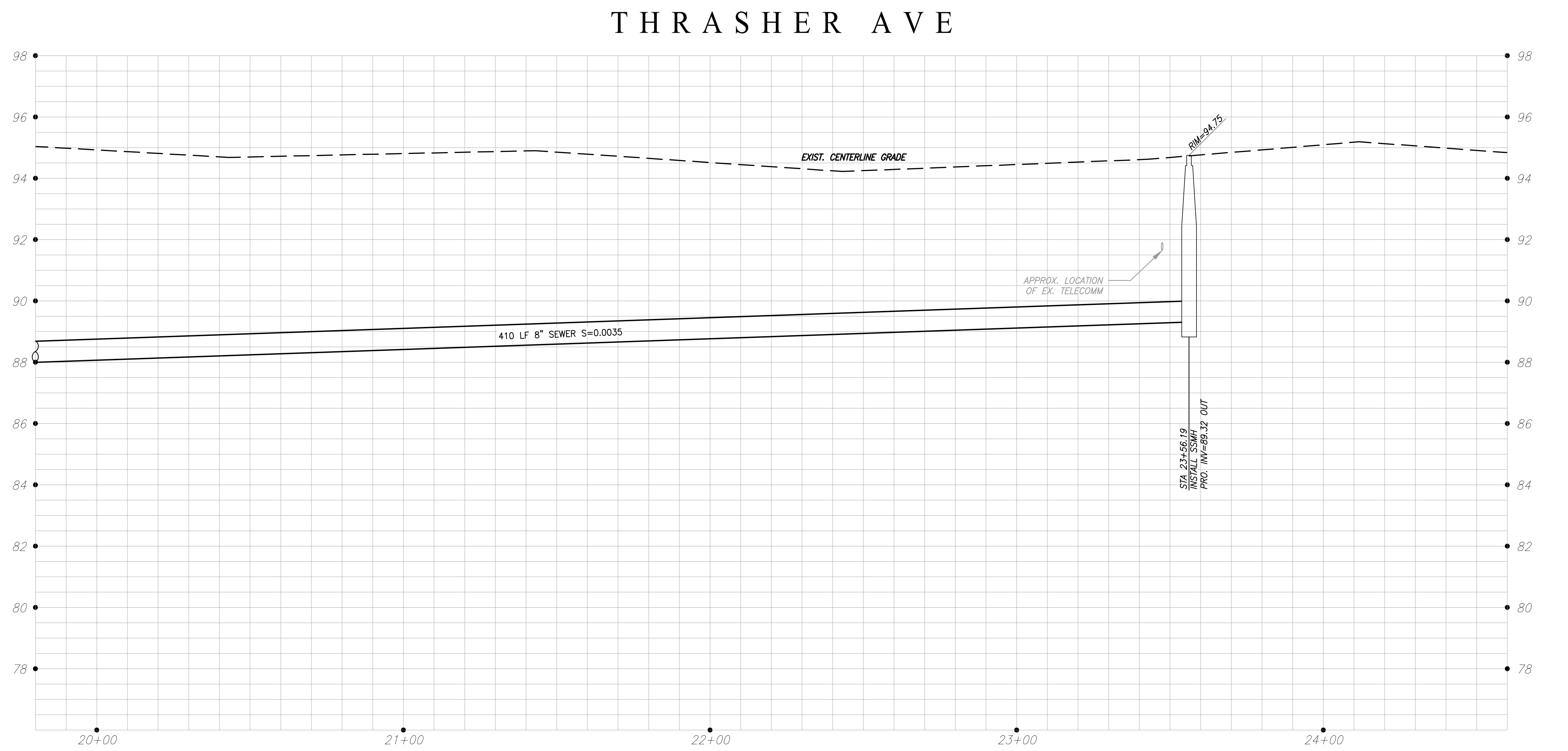
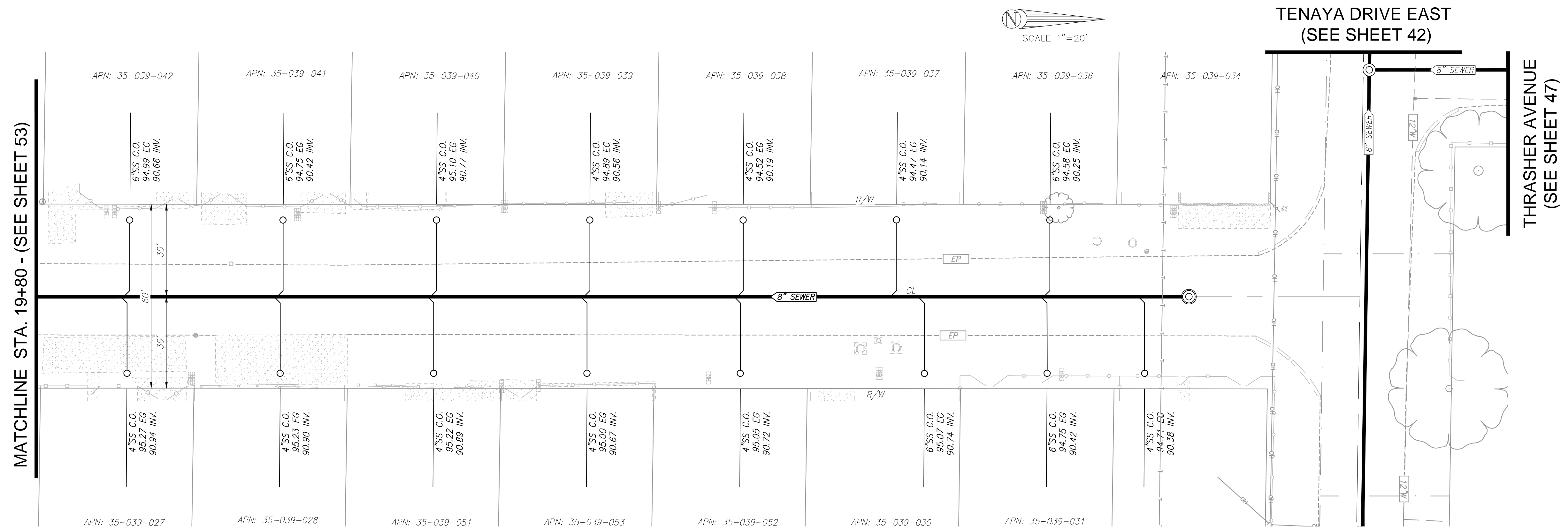
**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



THRASHER AVENUE  
 STA. 19+80 TO STA. 23+56  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

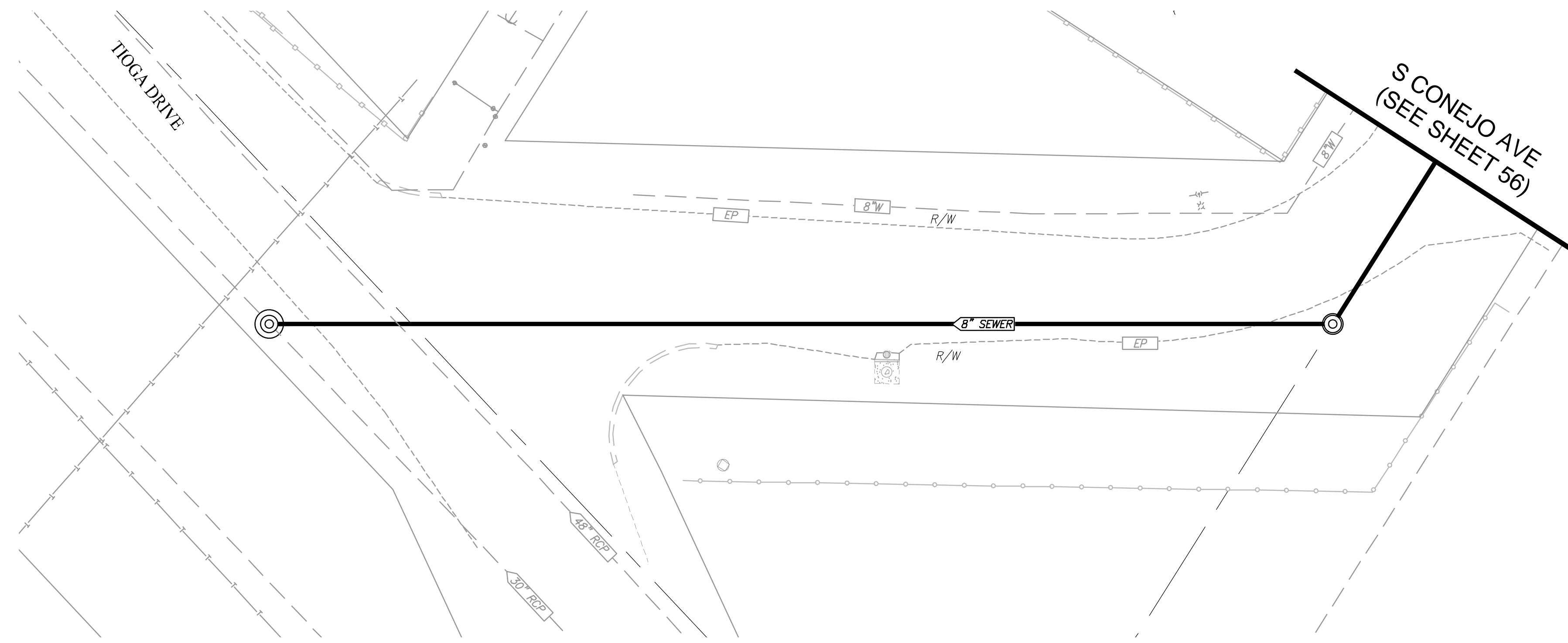
JOB NO: UPPSWR01  
 DATE: 06/07/2016  
 DR BY: PK&LC  
 CK BY: PK&LC  
 SCALE: VARIES

SHEET NUMBER  
**54**  
 OF 75 SHEETS

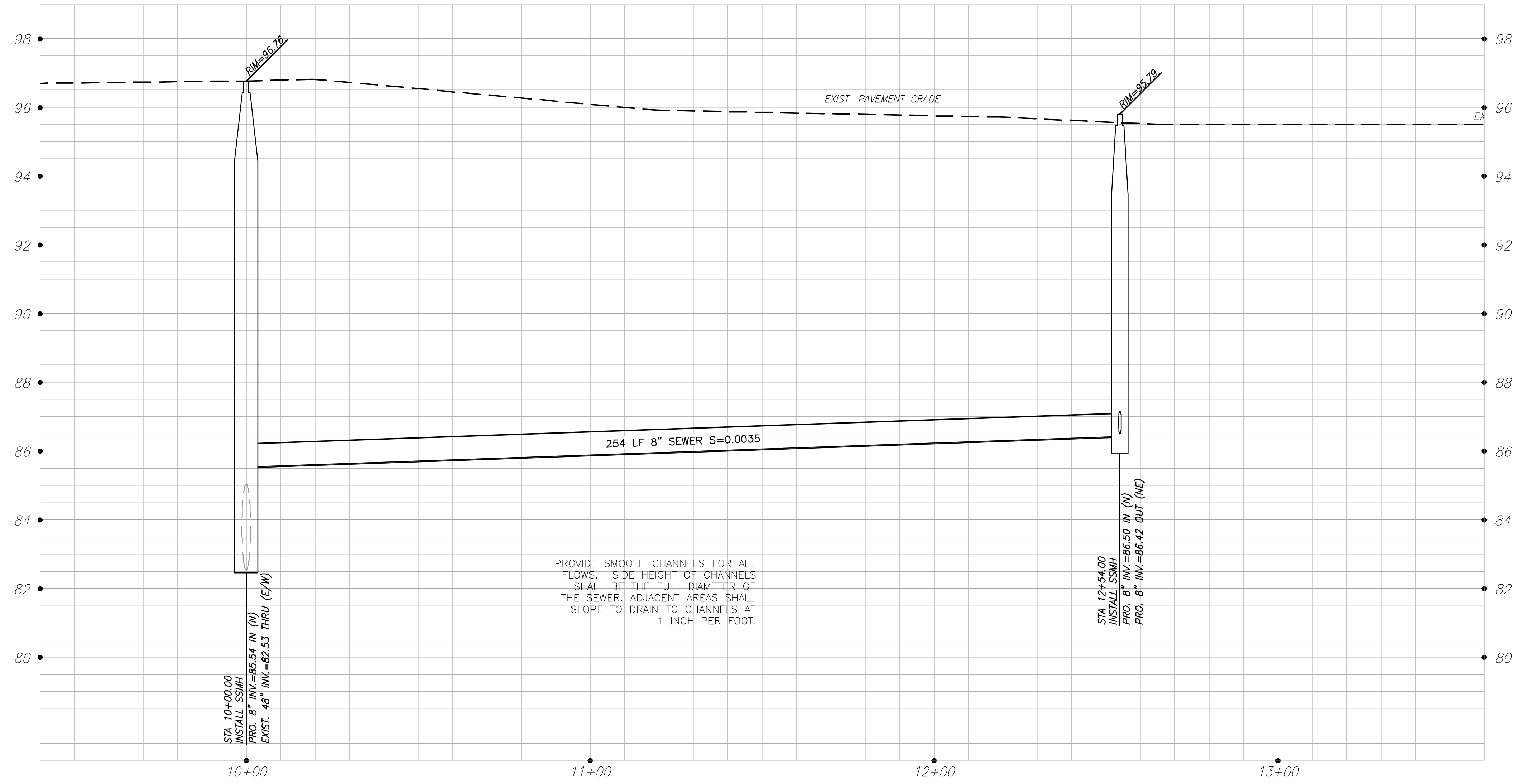


PROFILE SCALE  
 1" = 20' HORIZONTAL  
 1" = 2' VERTICAL

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S CONEJO AVE

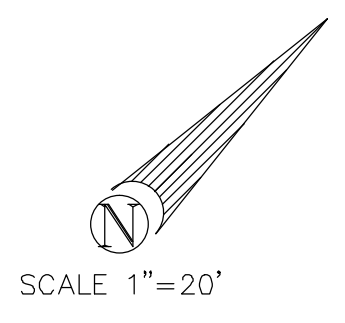


PROVIDE SMOOTH CHANNELS FOR ALL FLOWS. SIDE HEIGHT OF CHANNELS SHALL BE THE FULL DIAMETER OF THE SEWER. ADJACENT AREAS SHALL SLOPE TO DRAIN TO CHANNELS AT 1 INCH PER FOOT.

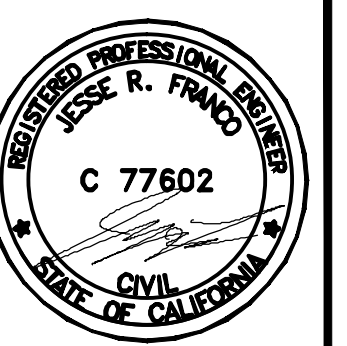
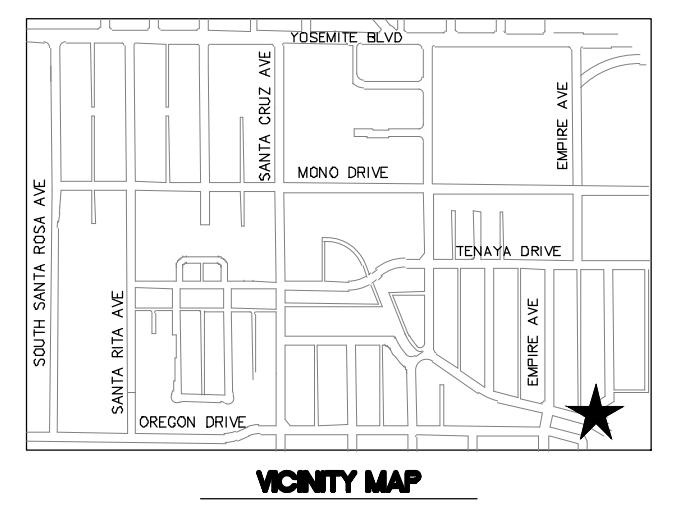
STA. 10+00.00  
INSTALL SSMH  
PRO. 8" INV.=85.54 IN (N)  
EXIST. 48" INV.=82.53 THRU (E/W)

STA. 12+54.00  
INSTALL SSMH  
PRO. 8" INV.=86.50 IN (N)  
PRO. 8" INV.=86.42 OUT (NE)

PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL



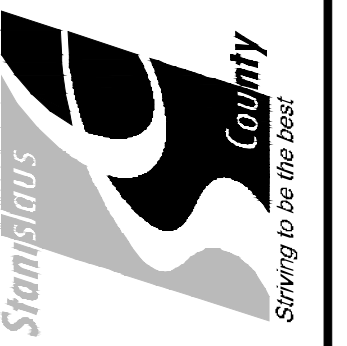
SCALE 1"=20'



PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED

**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358

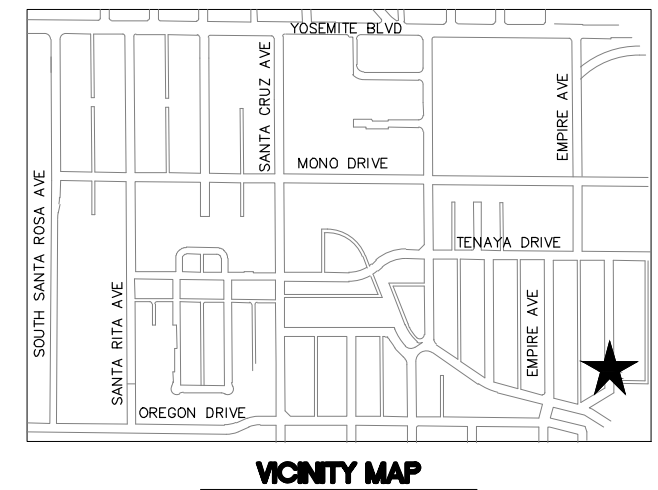
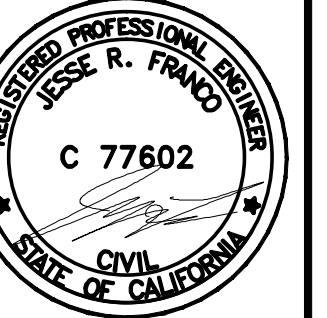


S CONEJO AVENUE  
STA. 10+00 TO STA. 12+54  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

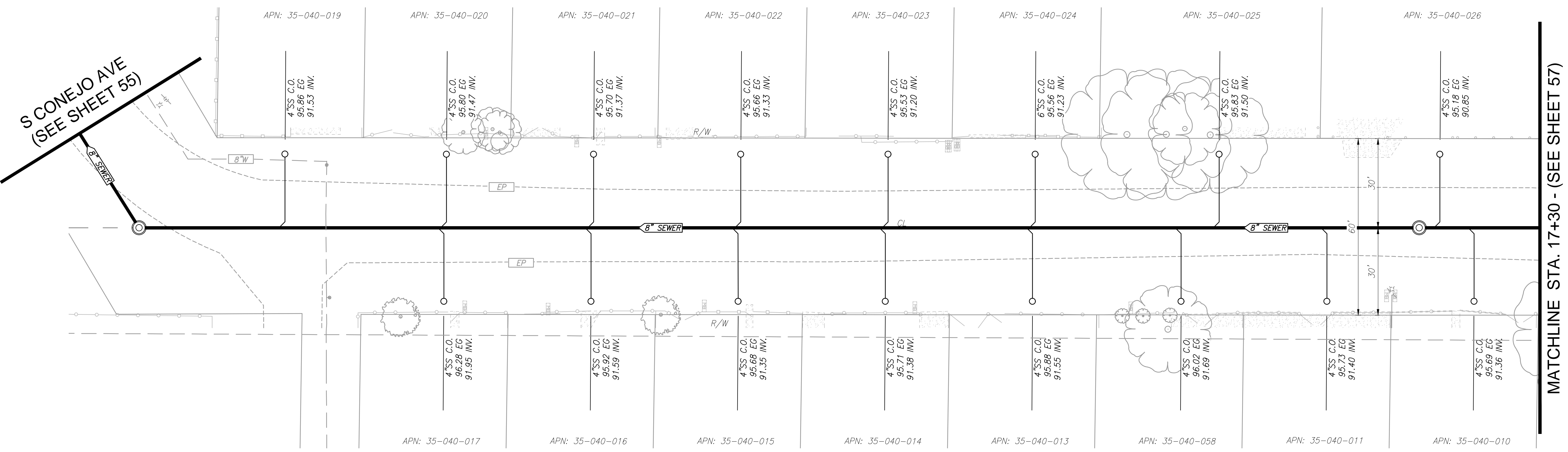
JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PKMLC  
CK BY PKMLC  
SCALE VARIES

SHEET NUMBER  
**55**  
OF 75 SHEETS

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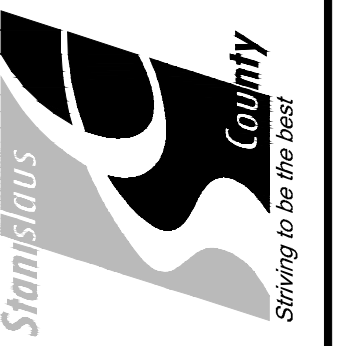


SCALE 1"=20'



MATCHLINE STA. 17+30 - (SEE SHEET 57)

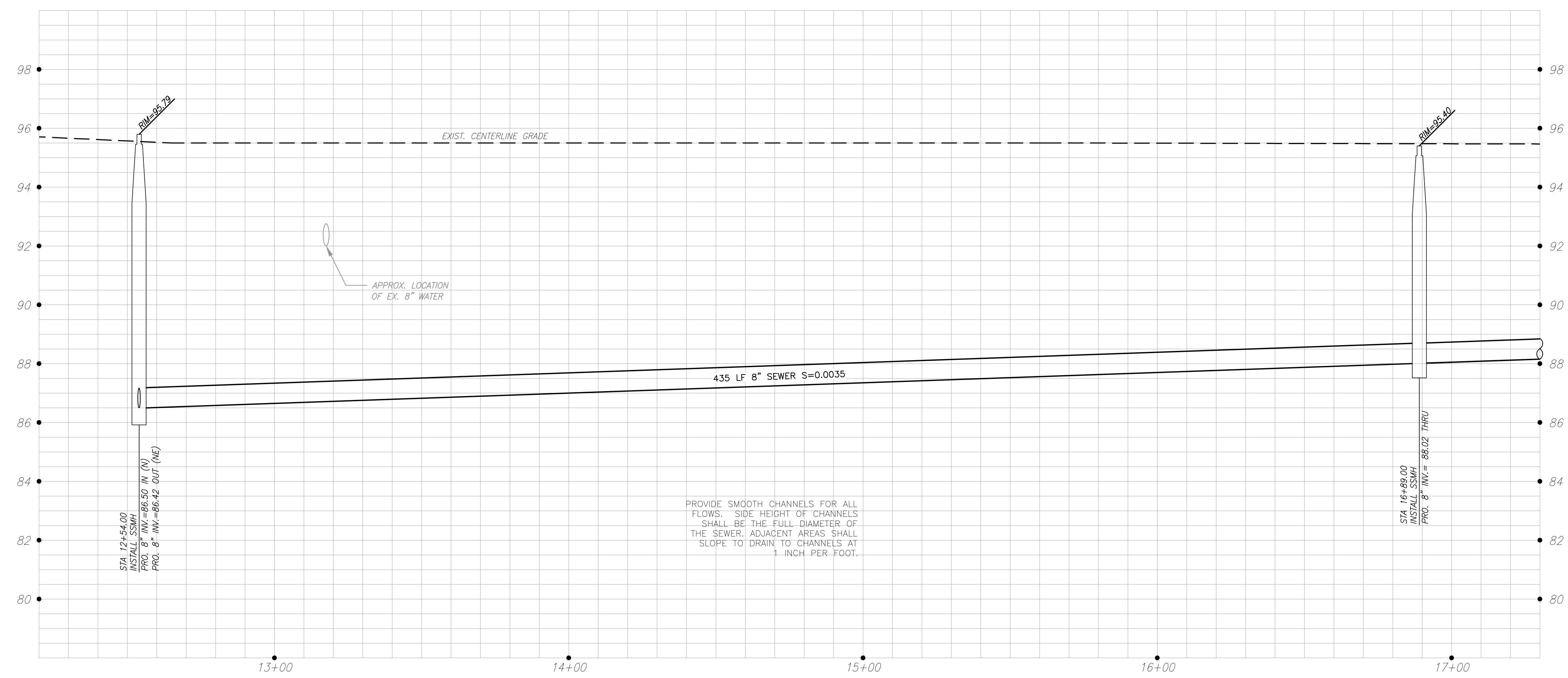
# S CONEJO AVE



**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358

PREPARED UNDER THE DIRECTION OF:

NO.	DESCRIPTIONS	DATE	APPROVED



PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL

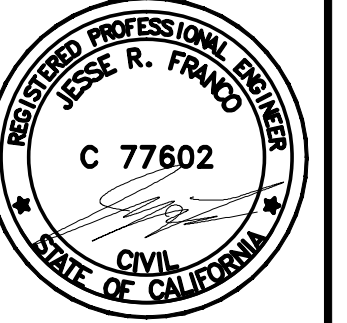
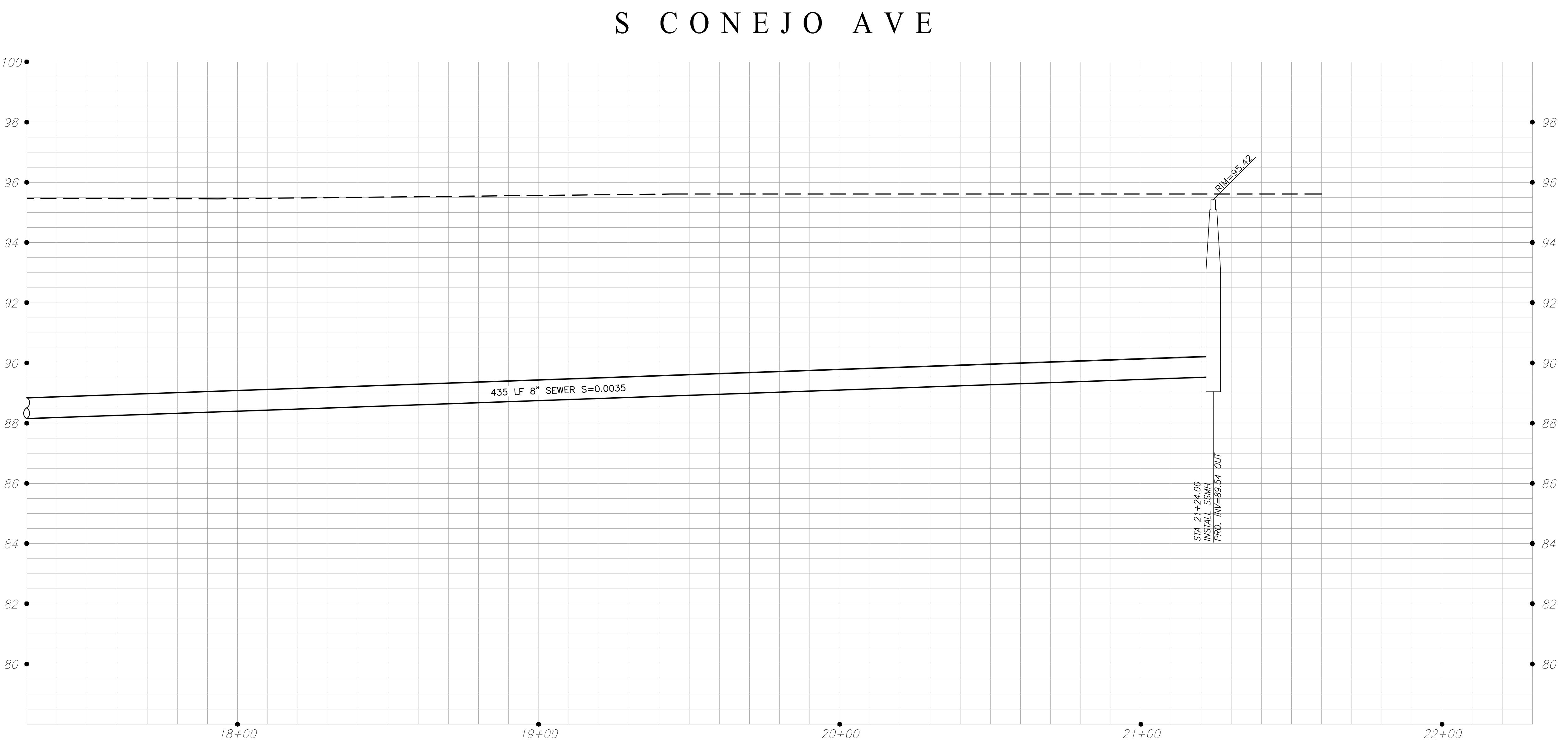
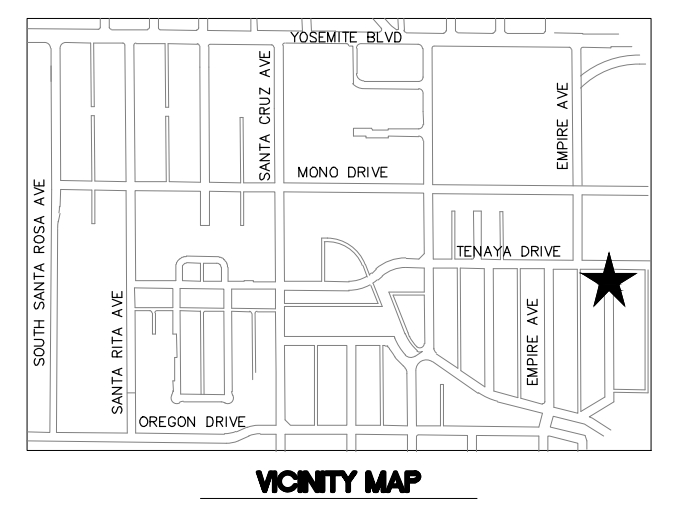
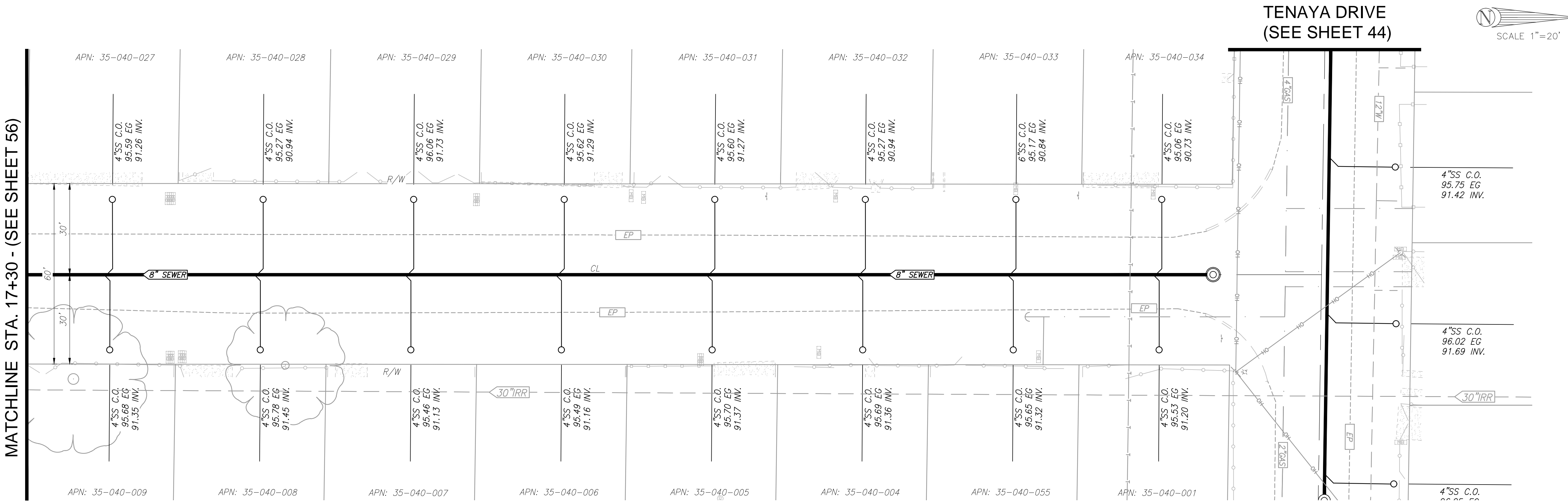
S CONEJO AVENUE  
STA. 12+54 TO STA. 17+30  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK.M.C  
CK BY PK.M.C  
SCALE VARIES

SHEET NUMBER  
**56**  
OF 75 SHEETS

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PREPARED UNDER THE DIRECTION OF:

NO	DESCRIPTIONS	DATE	APPROVED

**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



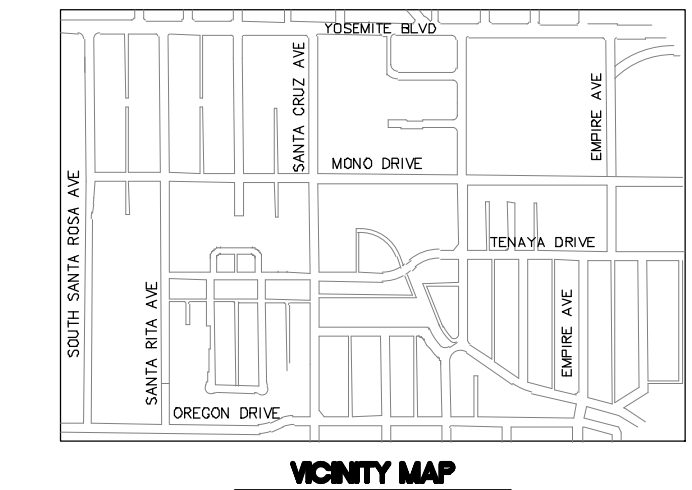
S CONEJO AVENUE  
STA. 17+30 TO STA. 21+24  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK&LC  
CK BY PK&LC  
SCALE VARIES

SHEET NUMBER  
**57**  
OF 75 SHEETS

PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL

D:\Projects\2016\06-07-2016 - 425pm\Stanislaus\Operations\loc\Tenaya\Bulldozer\T66A\PC\_55-57\_S\_Conejo\_Ave.dwg



DATE:	
DATE APPROVED:	
REVISIONS:	
NO.	DESCRIPTIONS

**TRENCH RESURFACING NOTES:**

LIMITS OF TRENCH RESURFACING SHOWN ON INDIVIDUAL PLAN SHEETS.

TRENCH SURFACE RESTORATION AREAS MAY VARY BASED EXAMINATION OF THE CONDITION OF EXISTING AC PAVEMENT SHOWN TO REMAIN WHICH MAY BE COMPROMISED AS A RESULT OF TRENCHING AND BACKFILL OPERATIONS. ADDITIONAL AREAS WILL BE DETERMINED AT THE DISCRETION OF THE ENGINEER.

RAISE PROPOSED SEWER MANHOLES AND EXISTING WATER VALVES, EXISTING GAS VALVES, EXISTING MANHOLES AND ANY OTHER UTILITIES TO GRADE AFTER PAVING IS COMPLETE.

PAVEMENT CROWN IS AT THE CENTERLINE UNLESS OTHERWISE INDICATED.

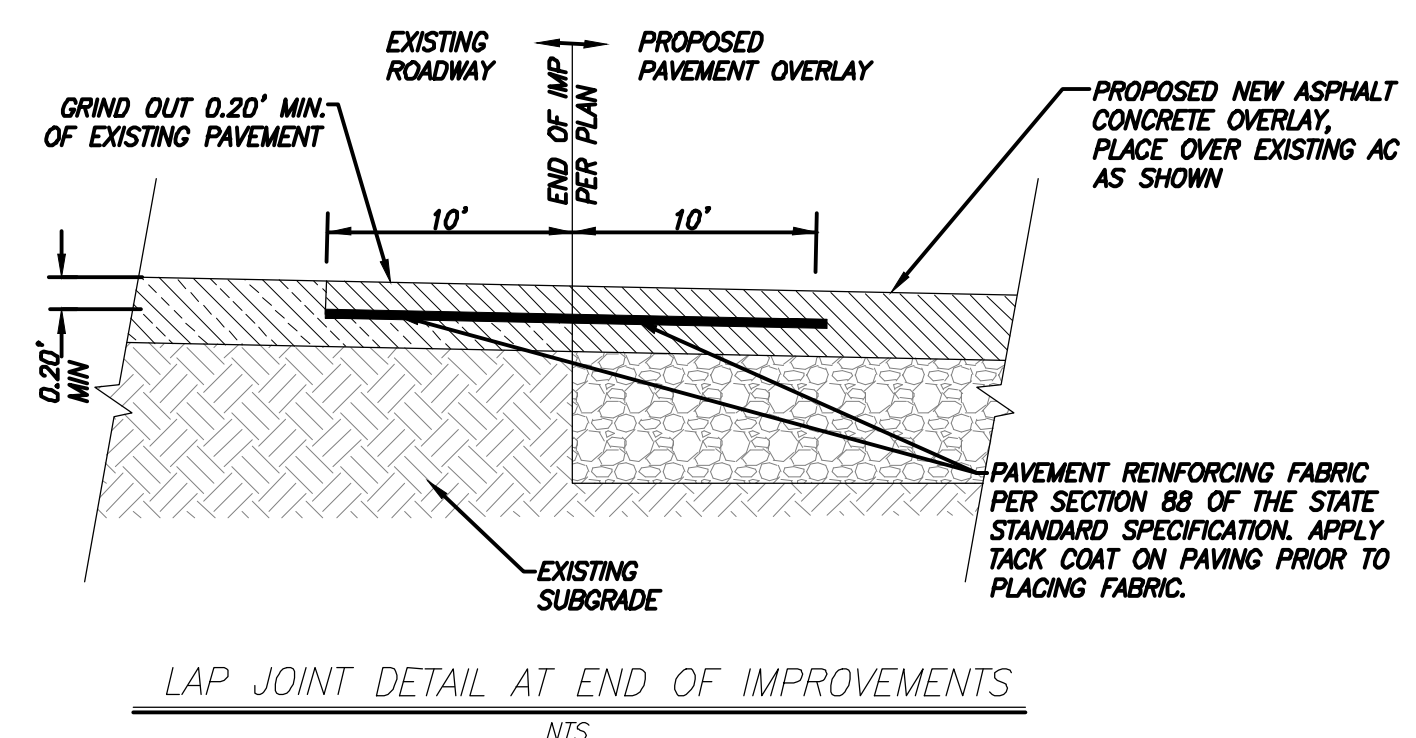
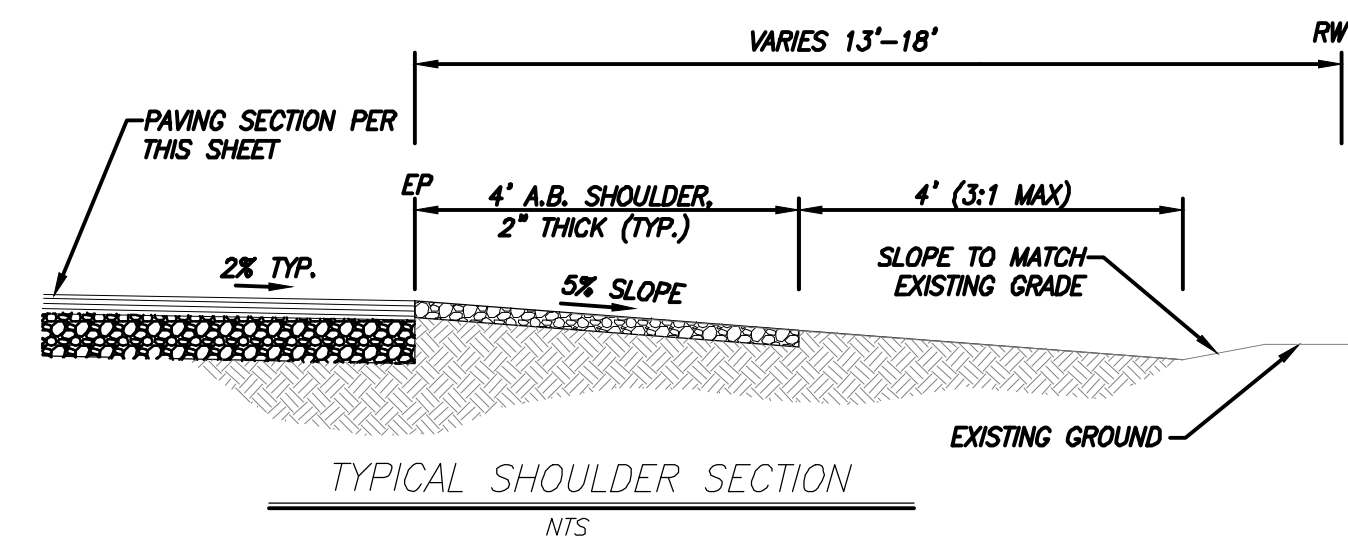
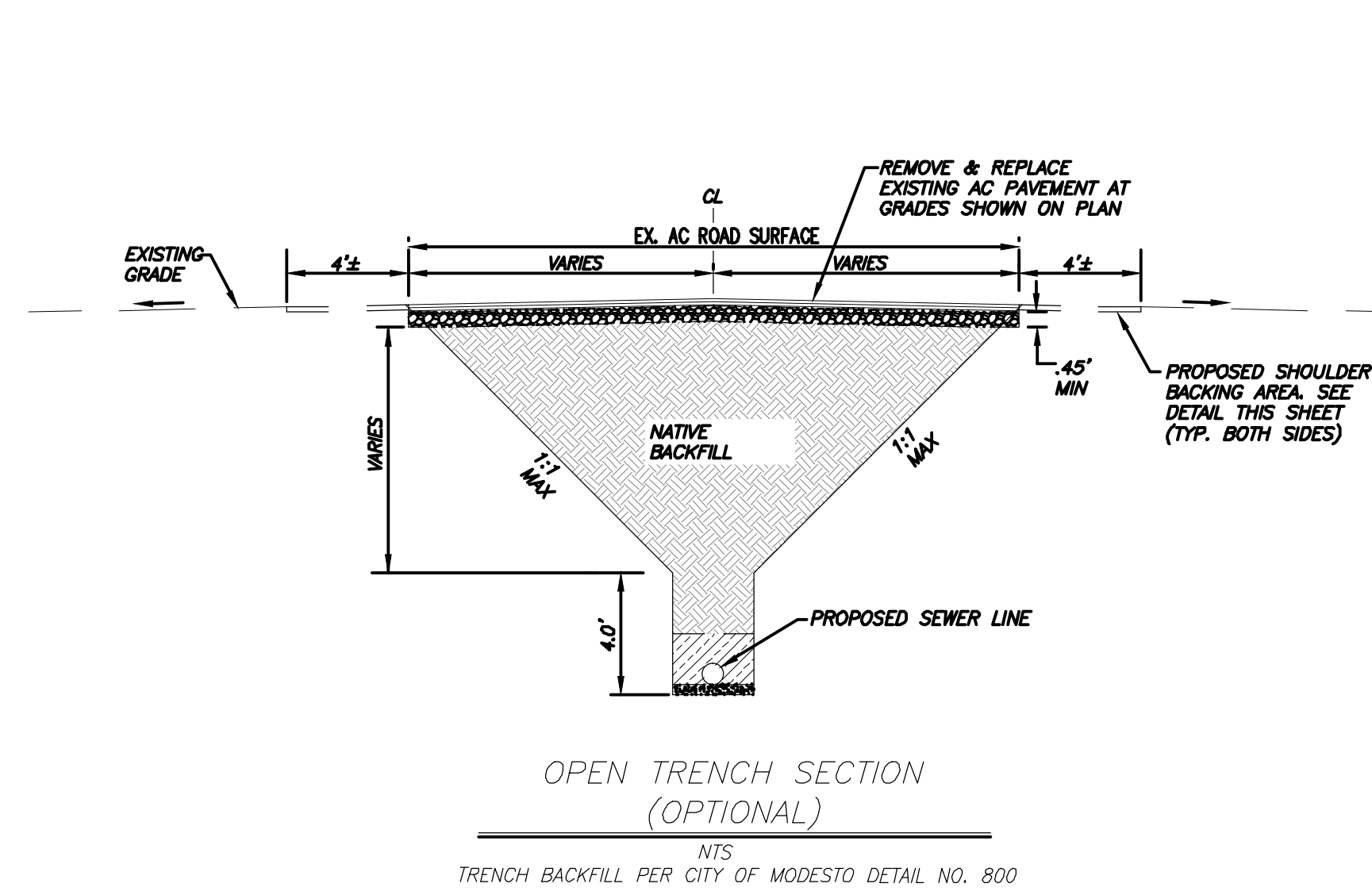
CONTRACTOR SHALL USE SERVICES OF LICENSED SURVEYOR TO LOCATE, PROTECT AND ADJUST EXISTING MONUMENTS TO GRADE. THE COST FOR PROFESSIONAL LAND SURVEYOR SERVICES SHALL BE AS DESCRIBED IN SPECIAL PROVISIONS.

ALL EXISTING THERMOPLASTIC AND TRAFFIC STRIPING SHALL BE REPLACED IN KIND, UNLESS DIFFERENT STRIPING TYPE IS INDICATED ON TRENCH SURFACE RESTORATION SHEETS.

ONCE ALL PAVING OPERATIONS HAVE BEEN COMPLETED, CONTRACTOR SHALL INSTALL BLUE REFLECTIVE FIRE HYDRANT MARKERS AT CORRESPONDING ROAD LOCATIONS PER STANDARD DETAIL 632.

STREET	Class	R	TI	AC	AB
Benson Ave	Local	50	6	0.35	0.5
Canal Street	Local	50	6	0.35	0.5
Del Mar Court	Local	50	6	0.35	0.5
Hermosa Ave	Local	50	6	0.35	0.5
Keir Ave	Local	50	6	0.35	0.5
Mono Drive	Local	50	6	0.35	0.5
Page Court	Local	50	6	0.35	0.5
S Conejo Ave	Local	50	6	0.35	0.5
S Santa Ana Ave	Local	50	6	0.35	0.5
S Santa Rosa Ave	Local	50	12	0.35	0.5
Santa Ana Ave (North of Tenaya)	Local	50	6	0.35	0.5
Santa Rita Ave	Local	50	6	0.35	0.5
Tenaya Drive	Local	50	6	0.35	0.5
Tenaya Drive Alley	Local	50	6	0.35	0.5
Thrasher Ave	Local	50	6	0.35	0.5
Empire Ave	Collector	50	8	0.40	0.5
Oregon Drive	Collector	50	10	0.42	0.8
S Santa Cruz Ave	Collector	50	10	0.42	0.8
Tenaya Drive (Sta. 40+50 to 43+50)	Collector	50	8	0.40	0.5
Tiooga Drive	Collector	50	8	0.40	0.5
Unpaved Alleys	Alley	50	A	A	0.167

TRENCH RESURFACING - SECTION PLAN



**NOTES:**

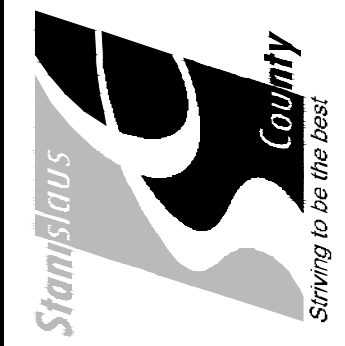
TRENCH SECTION DETAIL DOES NOT RELIEVE CONTRACTOR OF PROVIDING SHORING AND BRACING AS REQUIRED TO PROVIDE SAFE EXCAVATION AND CONSTRUCTION, IN ACCORDANCE WITH OSHA REQUIREMENTS.

TRENCH SECTION DETAIL DOES NOT RELIEVE CONTRACTOR OF PROVIDING SHORING AND BRACING AS REQUIRED TO PROTECT EXISTING UTILITIES ADJACENT TO PROPOSED SEWER CONSTRUCTION.

IN LOCATIONS IN WHICH EXISTING UTILITIES PREVENT TYPICAL TRENCH SECTION, CONTRACTOR SHALL PROVIDE SHORING AND BRACING.



STANISLAUS COUNTY  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



DETAIL SHEET

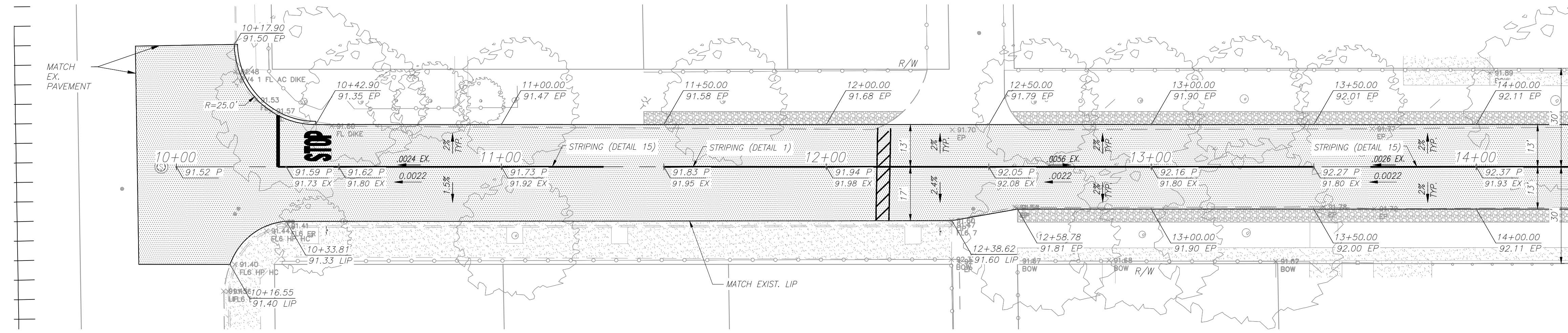
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK.M.C  
CK BY PK.M.C  
SCALE VARIES

PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL

SHEET NUMBER  
**58**  
OF 75 SHEETS

SOUTH SANTA ROSA AVE



NOTE: AC DIKES PER CALTRANS TYPE A,  
2" SLOTS EVERY 5' TO FULL DEPTH

MONO DRIVE  
(REFER TO SEWER SHEET 4)

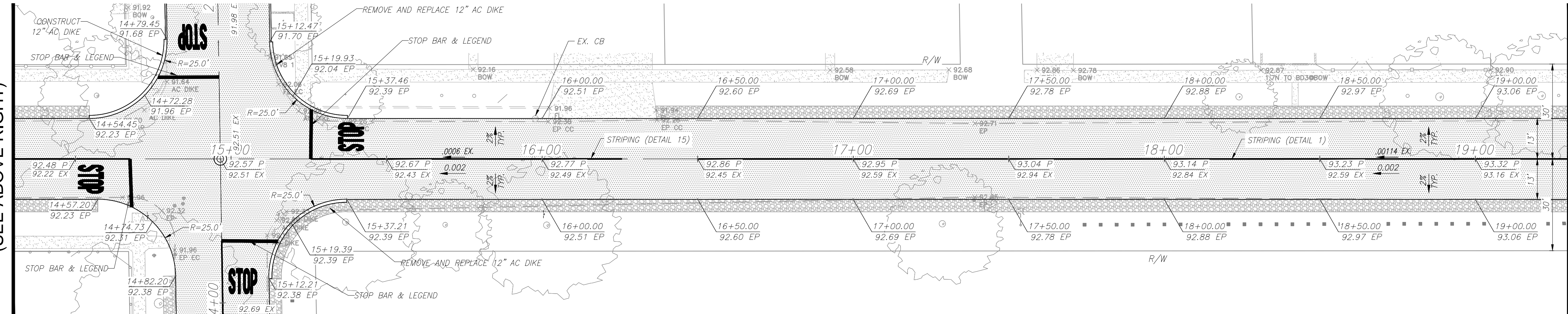
- 4' SHOULDER BACKING (TYP.)
- REMOVE AND REPLACE AC PAVEMENT (TYP.)



NO.	REVISIONS	DATE	APPROVED

MATCHLINE STA. 14+30  
(SEE ABOVE RIGHT)

SANTA RITA AVENUE

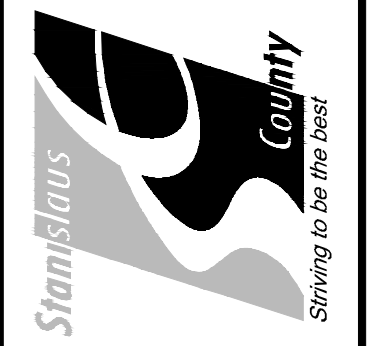


MONO DRIVE  
(REFER TO SEWER SHEET 5)

MATCHLINE STA. 19+30  
(SEE BELOW LEFT)

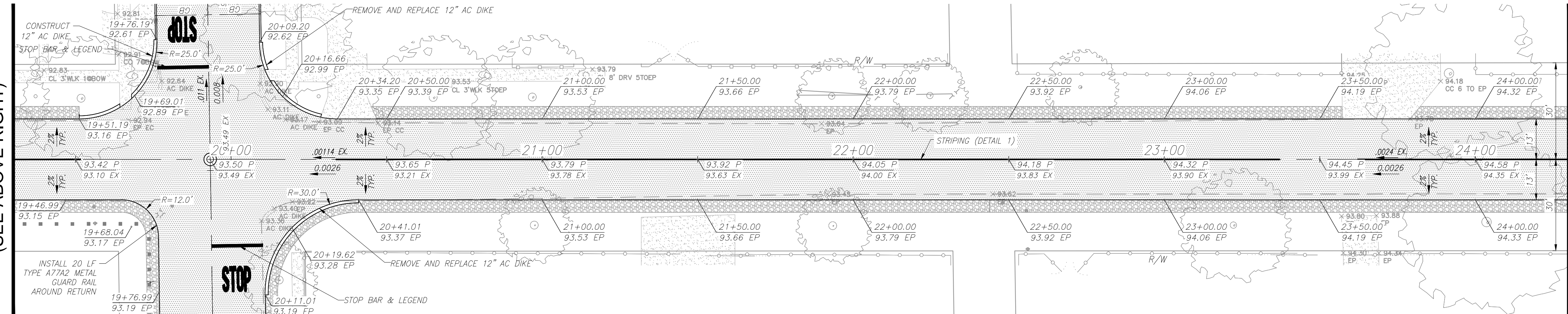


**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



MATCHLINE STA. 19+30  
(SEE ABOVE RIGHT)

SANTA ANA AVENUE



MONO DRIVE  
(REFER TO SEWER SHEET 6)

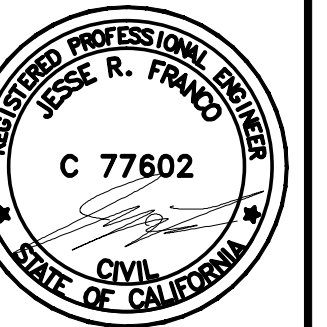
MATCHLINE STA. 24+30  
(SEE SHEET 62)

SEWER TRENCH SURFACE RESTORATION  
MONO DRIVE - STA. 10+00 TO STA. 24+30

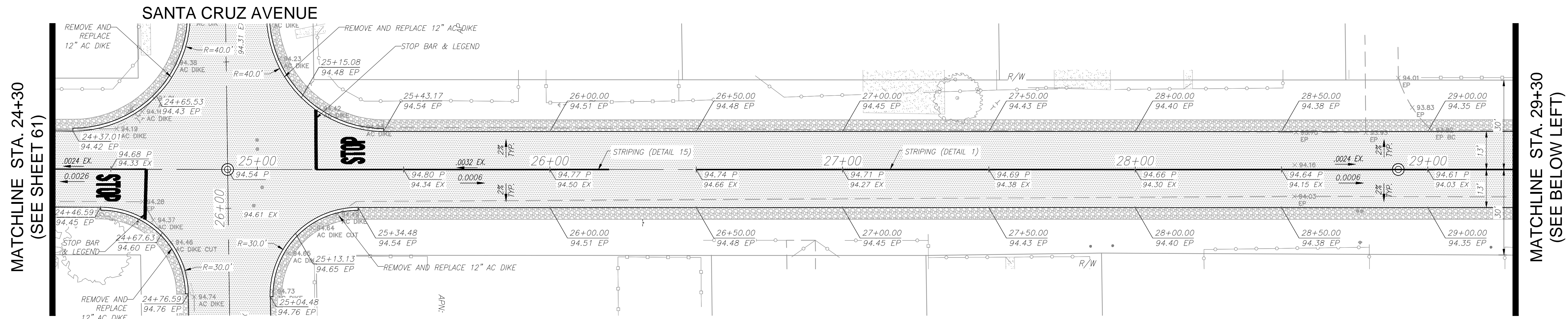
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK/KLC  
CK BY PK/KLC  
SCALE VARIES

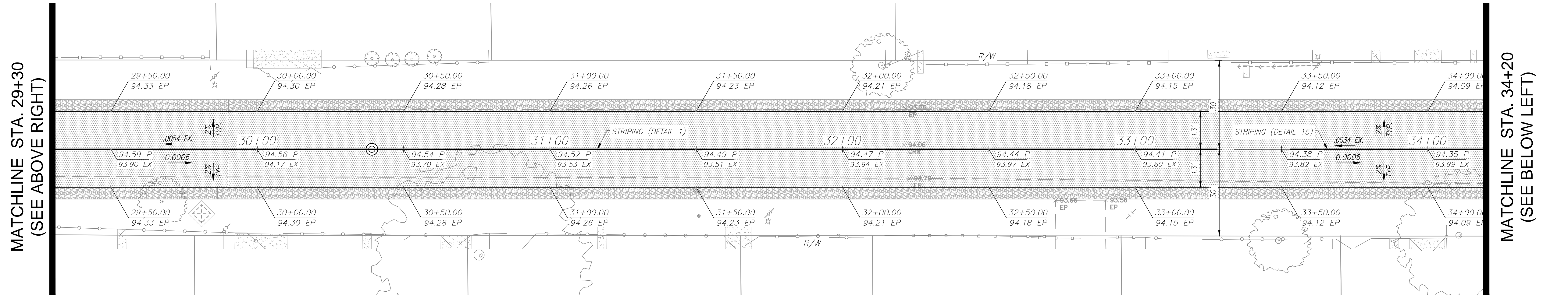
SHEET NUMBER  
**59**  
OF 75 SHEETS



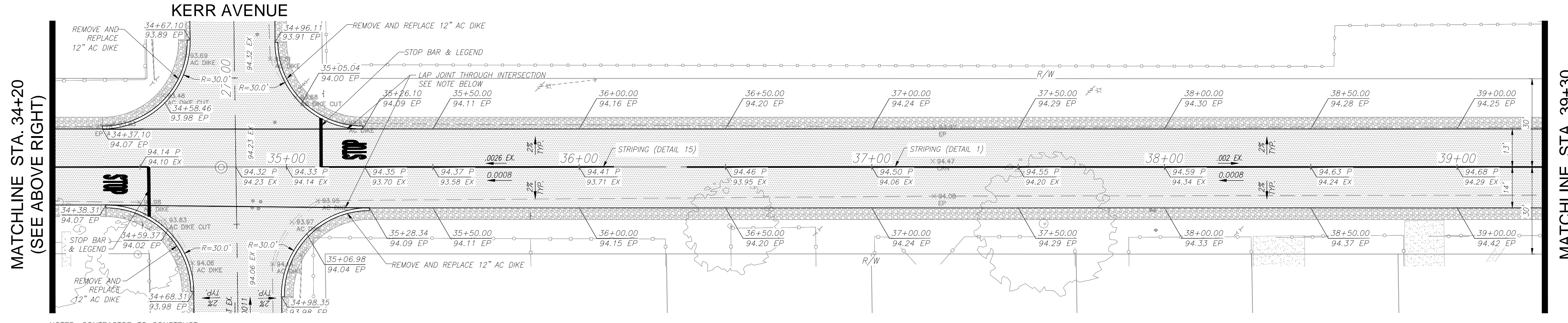
4' SHOULDER BACKING (TYP.)  
 REMOVE AND REPLACE AC PAVEMENT (TYP.)



**MONO DRIVE**  
 (REFER TO SEWER SHEET 7)



**MONO DRIVE**  
 (REFER TO SEWER SHEET 36)



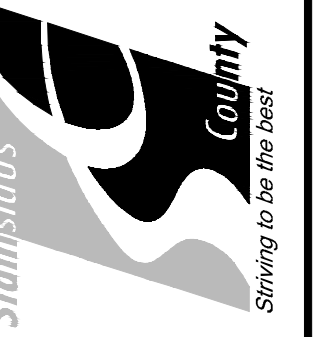
**MONO DRIVE**  
 (REFER TO SEWER SHEET 37)



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NO.	REVISIONS	DATE	APPROVED

**STANISLAUS COUNTY**  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358

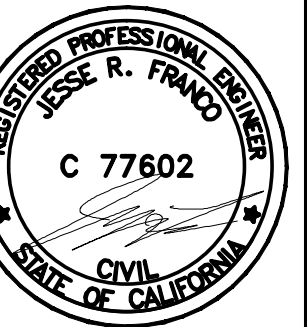


**SEWER TRENCH SURFACE RESTORATION**  
**MONO DRIVE - STA. 24+30 TO STA. 39+30**  
**AIRPORT NEIGHBORHOOD**  
**SEWER IMPROVEMENTS**  
 MODESTO, CALIFORNIA

JOB NO: UPPSWR01  
 DATE: 06/07/2016  
 DR BY: PK/KLC  
 CK BY: PK/KLC  
 SCALE: VARIES

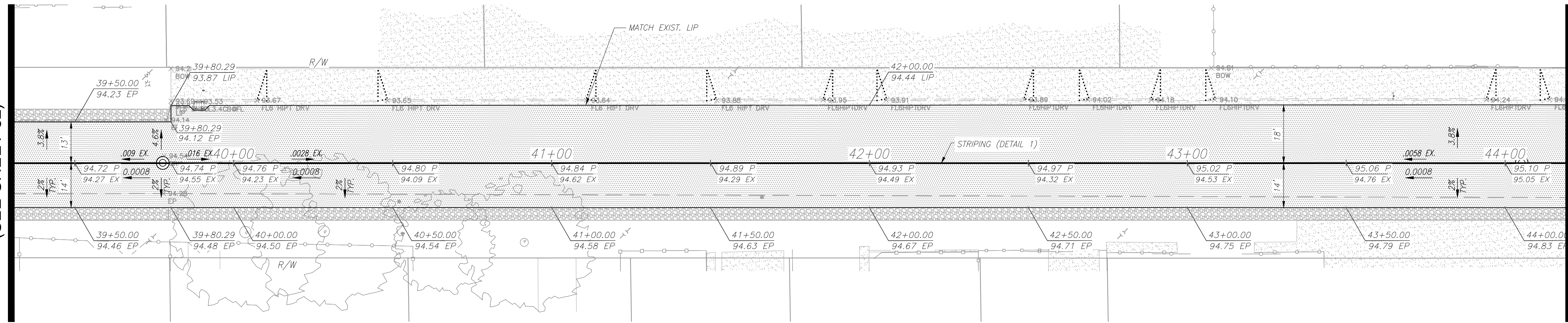
SHEET NUMBER  
**60**  
 OF 75 SHEETS

Oct 27, 2016 - 2:53pm  
 C:\Users\jfranco\Documents\Projects\2016\2430-3930 Mono Drive Surface Restoration - Stanislaus



4' SHOULDER BACKING (TYP.)  
 REMOVE AND REPLACE AC PAVEMENT (TYP.)

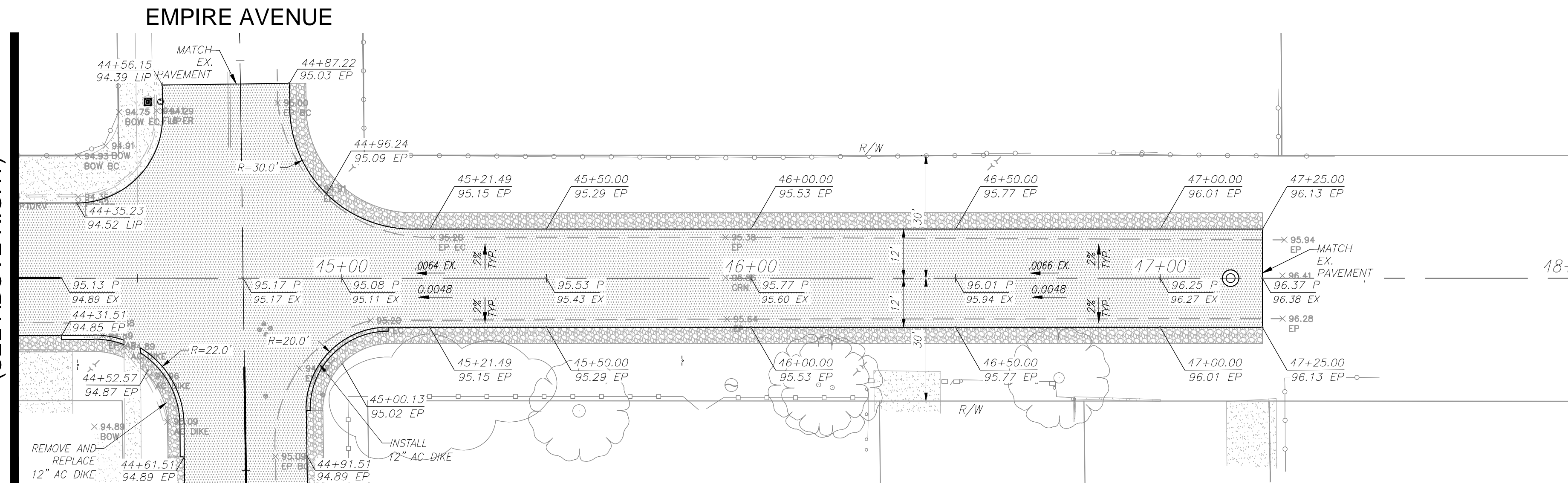
MATCHLINE STA. 39+30  
(SEE SHEET 62)



MATCHLINE STA. 44+20  
(SEE BELOW LEFT)

**MONO DRIVE**  
(REFER TO SEWER SHEET 38 AND 39)

MATCHLINE STA. 44+20  
(SEE ABOVE RIGHT)



**MONO DRIVE**  
(REFER TO SEWER SHEET 39)



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 ENGINEERING AND OPERATIONS DIVISION  
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SEWER TRENCH SURFACE RESTORATION  
 MONO DRIVE - STA. 39+30 TO STA. 47+25

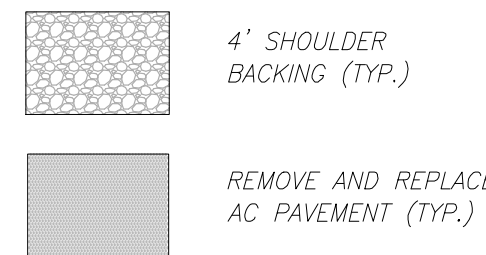
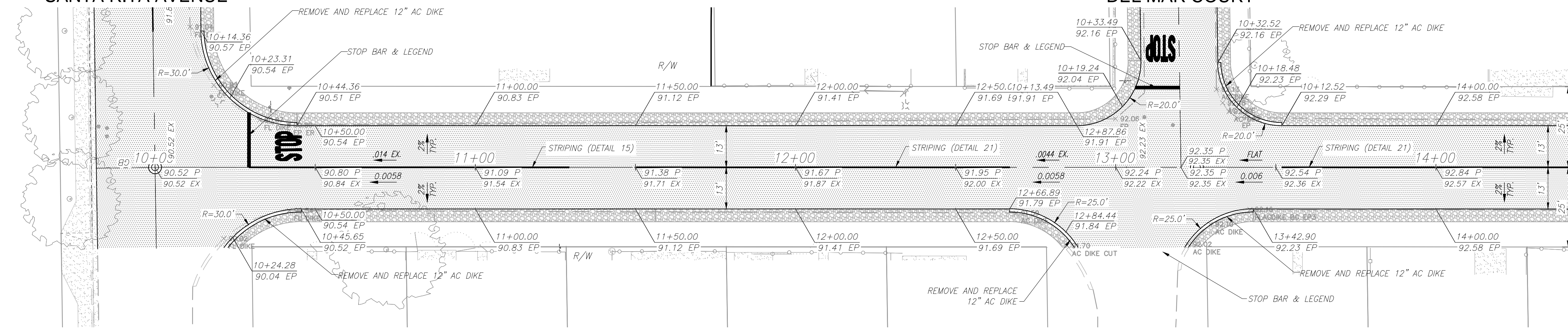
AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO UPPSWR01  
 DATE 06/07/2016  
 DR BY PK.M.C  
 CK BY PK.M.C  
 SCALE VARIES

SHEET NUMBER  
**61**  
 OF 75 SHEETS

SANTA RITA AVENUE

DEL MAR COURT

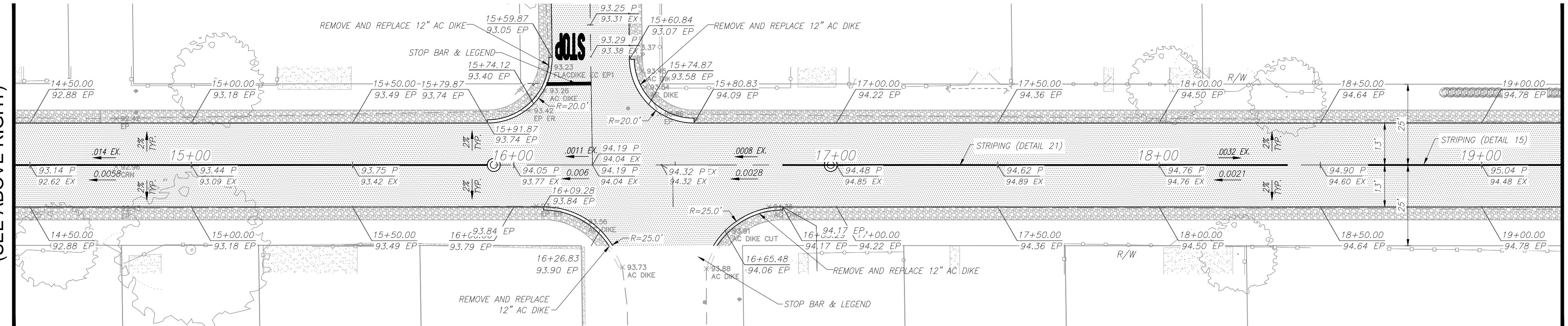


NOTE: AC DIKES PER CALTRANS TYPE A, 2\"/>

TENAYA DRIVE  
(REFER TO SEWER SHEET 10)

MATCHLINE STA. 14+50  
(SEE BELOW LEFT)

DEL MAR COURT



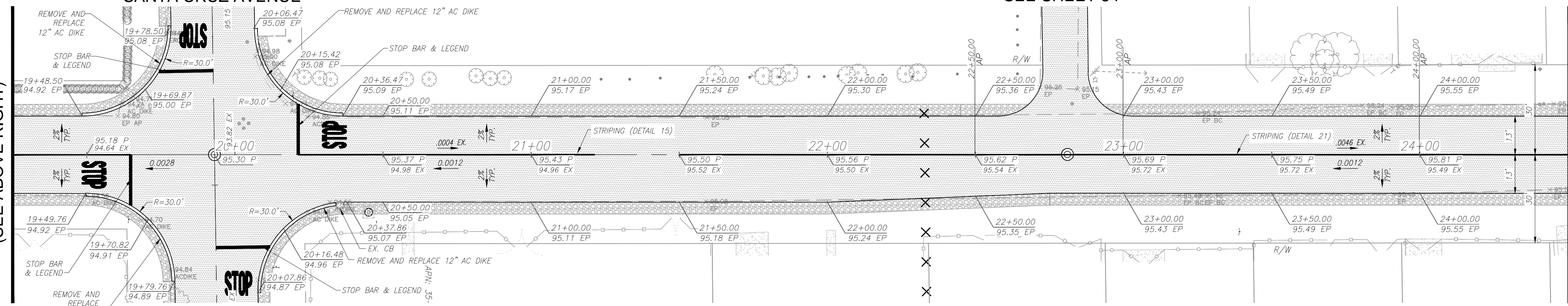
MATCHLINE STA. 14+50  
(SEE ABOVE RIGHT)

MATCHLINE STA. 19+30  
(SEE BELOW LEFT)

TENAYA DRIVE  
(REFER TO SEWER SHEETS 11 AND 31)

SANTA CRUZ AVENUE

SEE SHEET 34



MATCHLINE STA. 19+30  
(SEE ABOVE RIGHT)

MATCHLINE STA. 24+50  
(SEE SHEET 65)

TENAYA DRIVE  
(REFER TO SEWER SHEETS 32 AND 33)



NO.	REVISIONS	DATE	APPROVED

**STANISLAUS COUNTY**  
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 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358

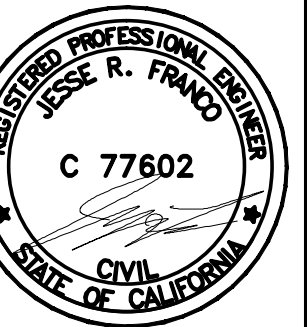


SEWER TRENCH SURFACE RESTORATION  
 TENAYA DRIVE - STA. 10+00 TO STA. 24+50  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO: UPPSWR01  
 DATE: 06/07/2016  
 DR BY: PK/M/C  
 CK BY: PK/M/C  
 SCALE: VARIES

SHEET NUMBER  
**62**  
 OF 75 SHEETS

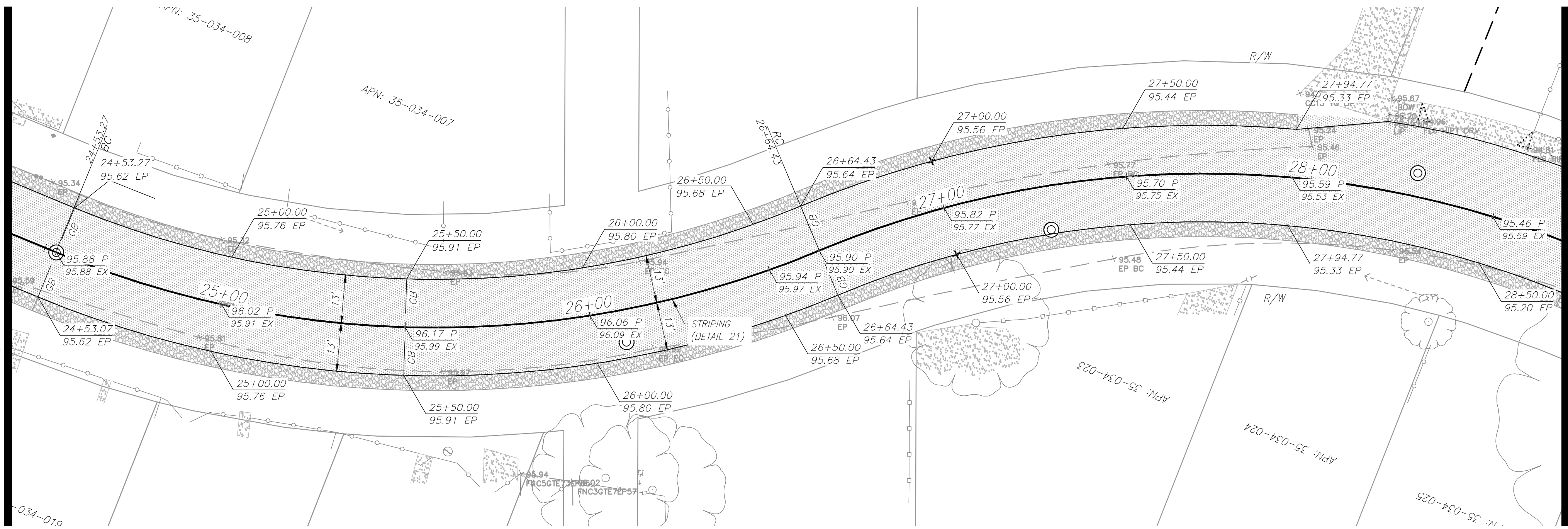
06/27/2016 2:58pm C:\Users\pkm\Documents\Projects\Tenaya\Tenaya\_Sewer\_Surface\_Restoration\_Sheets.dwg



4' SHOULDER BACKING (TYP.)

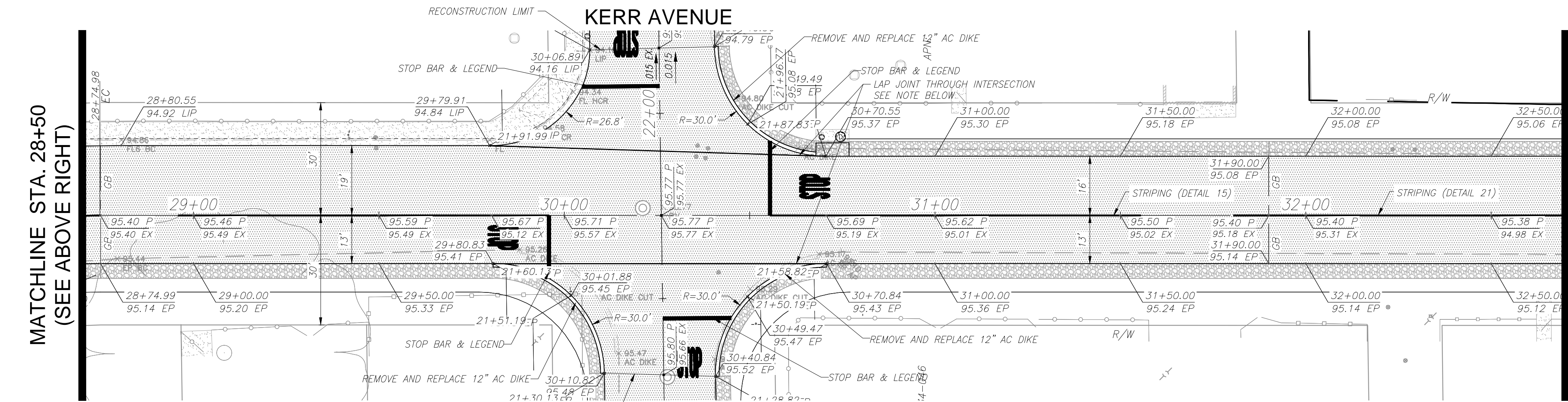
REMOVE AND REPLACE AC PAVEMENT (TYP.)

MATCHLINE STA. 24+50  
(SEE SHEET 64)



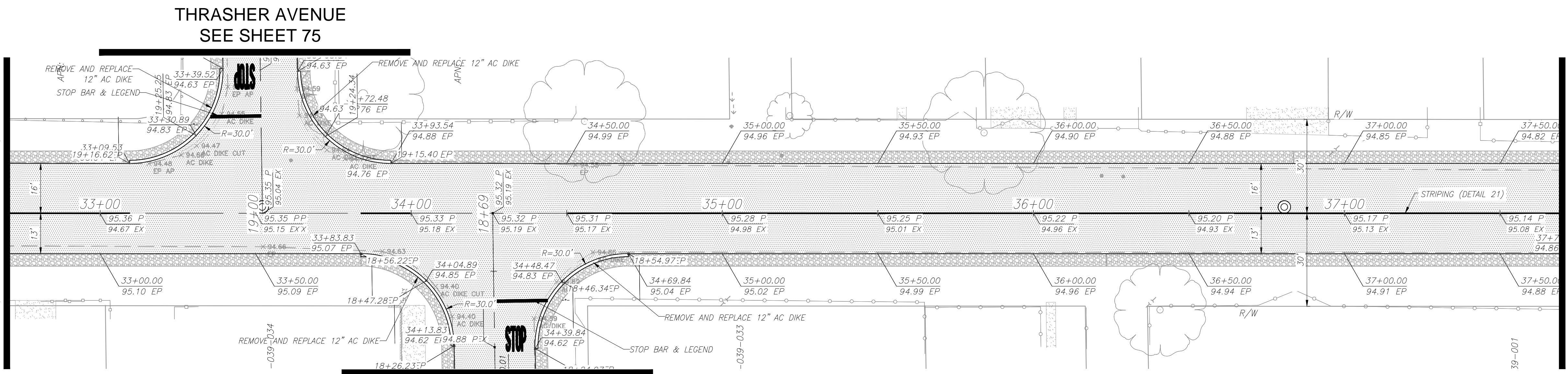
MATCHLINE STA. 28+50  
(SEE BELOW LEFT)

**TENAYA DRIVE**  
(REFER TO SEWER SHEETS 33 AND 40)



MATCHLINE STA. 32+70  
(SEE BELOW LEFT)

**TENAYA DRIVE**  
(REFER TO SEWER SHEETS 40 AND 42)



MATCHLINE STA. 37+70  
(SEE SHEET 66)

**THRASHER AVENUE**  
SEE SHEET 75

**TENAYA DRIVE**  
(REFER TO SEWER SHEETS 42 AND 43)



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**SEWER TRENCH SURFACE RESTORATION**  
**TENAYA DRIVE - STA. 24+50 TO STA. 37+70**

**AIRPORT NEIGHBORHOOD**  
**SEWER IMPROVEMENTS**  
MODESTO, CALIFORNIA

JOB NO: UPPSWR01  
DATE: 06/07/2016  
DR BY: PK/M/C  
CK BY: PK/M/C  
SCALE: VARIES

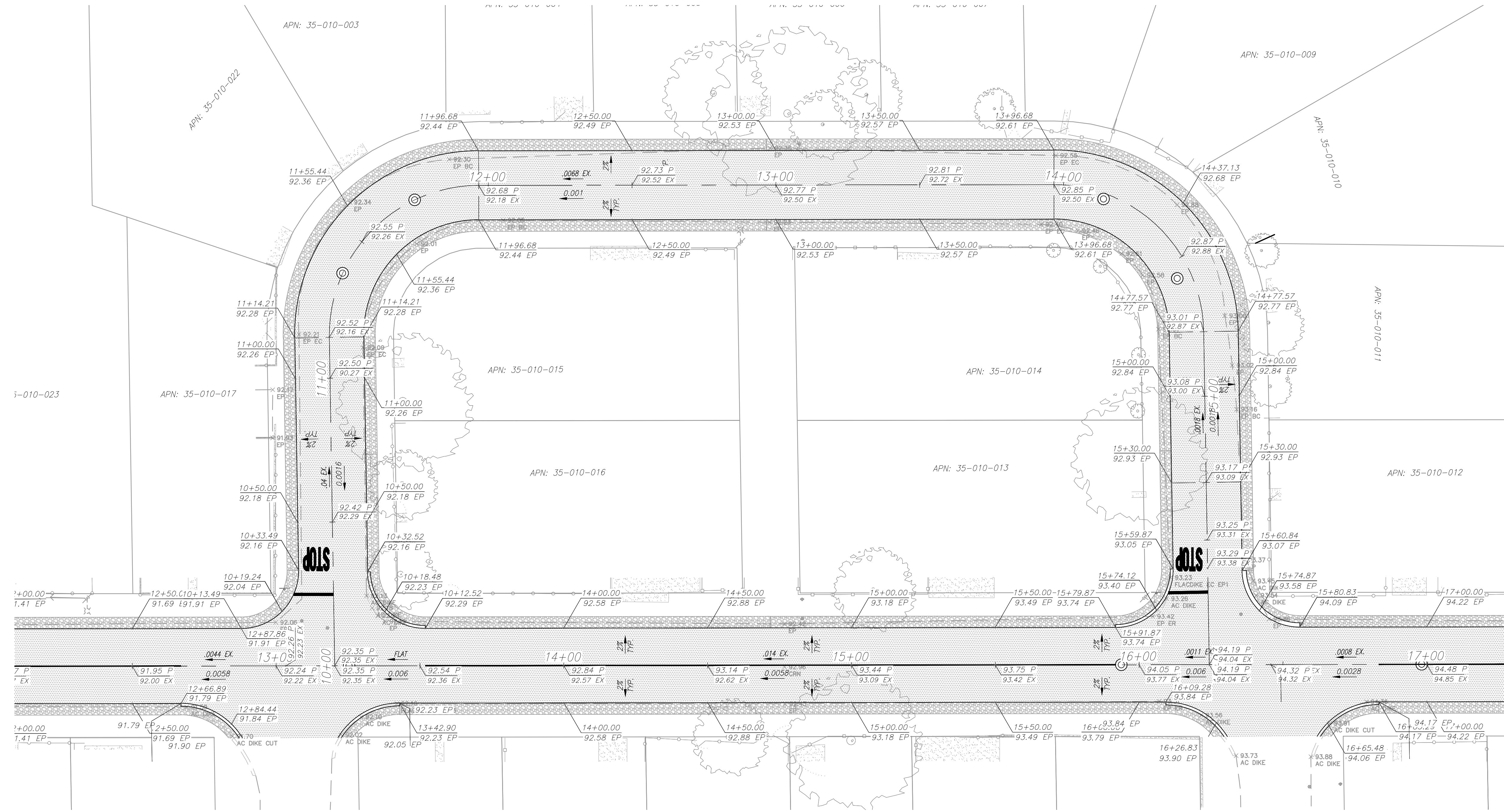
SHEET NUMBER  
**63**  
OF 75 SHEETS

06/27/2016 - 3:00pm  
C:\Users\kfranco\Documents\Projects\Tenaya Drive\Surface Restoration\Sheet63.dwg





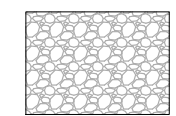

DEL MAR COURT  
(REFER TO SEWER SHEET 12)

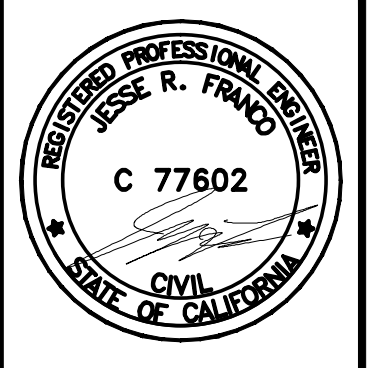


NOTE: AC DIKES PER CALTRANS TYPE A,  
2" SLOTS EVERY 5' TO FULL DEPTH

HERMOSA AVENUE

S. SANTA ANA AVENUE

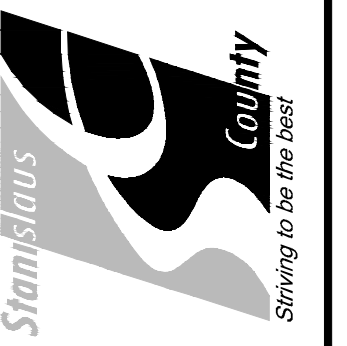
-  4' SHOULDER BACKING (TYP.)
-  REMOVE AND REPLACE AC PAVEMENT (TYP.)



NO.	REVISIONS	DATE	APPROVED



**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



SEWER TRENCH SURFACE RESTORATION  
DEL MAR COURT - STA. 10+00 TO STA. 15+93

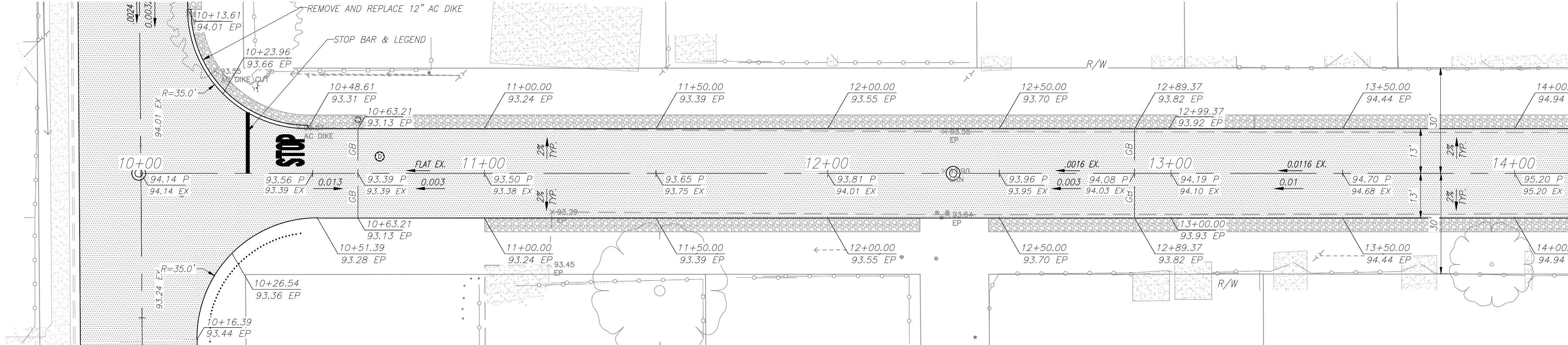
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO: UPPSWR01  
DATE: 06/07/2016  
DR BY: PK/M/C  
CK BY: PK/M/C  
SCALE: VARIES

SHEET NUMBER  
**65**  
OF 75 SHEETS

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 27, 2016 - 3:06pm

SANTA CRUZ AVENUE

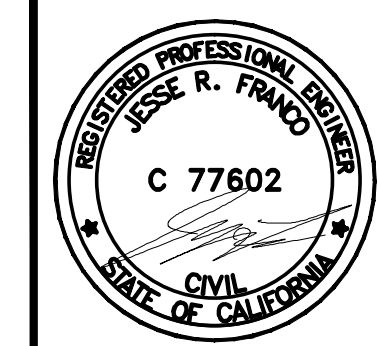


NOTE: AC DIKES PER CALTRANS TYPE A,  
2" SLOTS EVERY 5' TO FULL DEPTH

CANAL STREET  
(REFER TO SEWER SHEET 22)

MATCHLINE STA. 44+20  
(SEE BELOW LEFT)

- 4' SHOULDER BACKING (TYP.)
- REMOVE AND REPLACE AC PAVEMENT (TYP.)

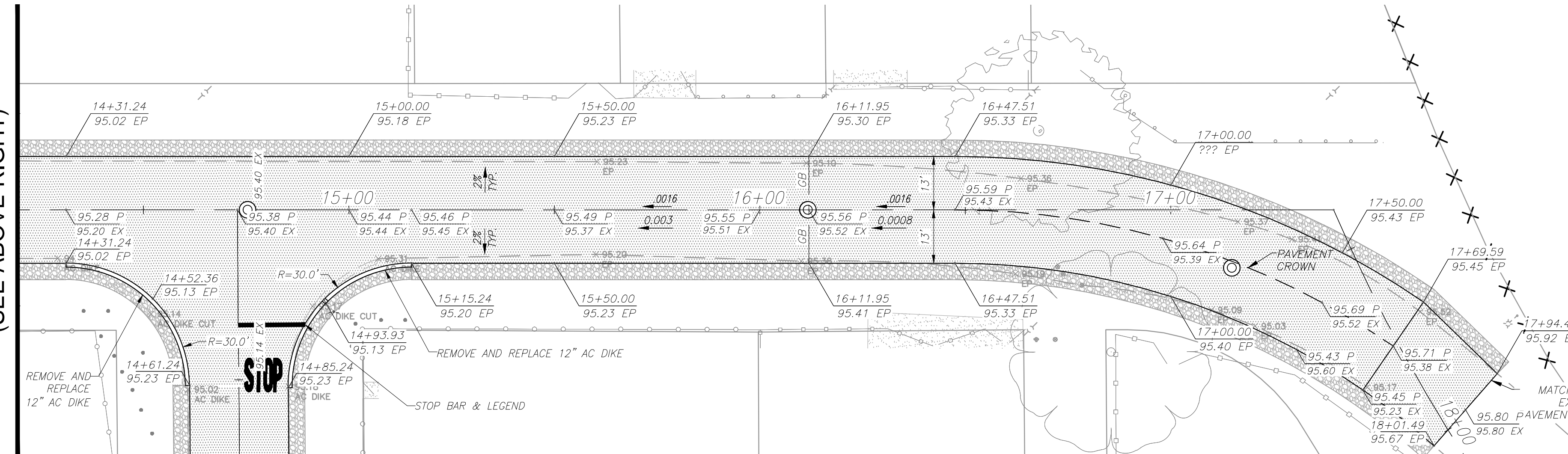


NO.	REVISIONS	DATE	APPROVED

DATE: \_\_\_\_\_

PREPARED UNDER THE DIRECTION OF: \_\_\_\_\_

MATCHLINE STA. 44+20  
(SEE ABOVE RIGHT)

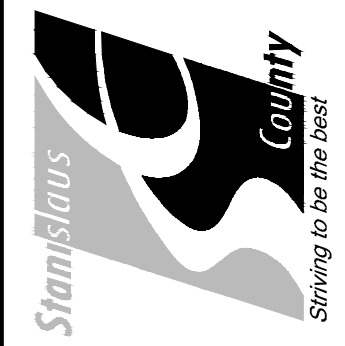


BENSON AVENUE

CANAL STREET  
(REFER TO SEWER SHEET 26)



**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



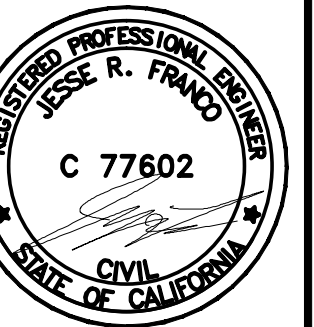
SEWER TRENCH SURFACE RESTORATION  
CANAL STREET - STA. 10+00 TO STA. 18+02

AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO	UPPSWR01
DATE	06/07/2016
DR BY	PK.M.C
CK BY	PK.M.C
SCALE	VARIES

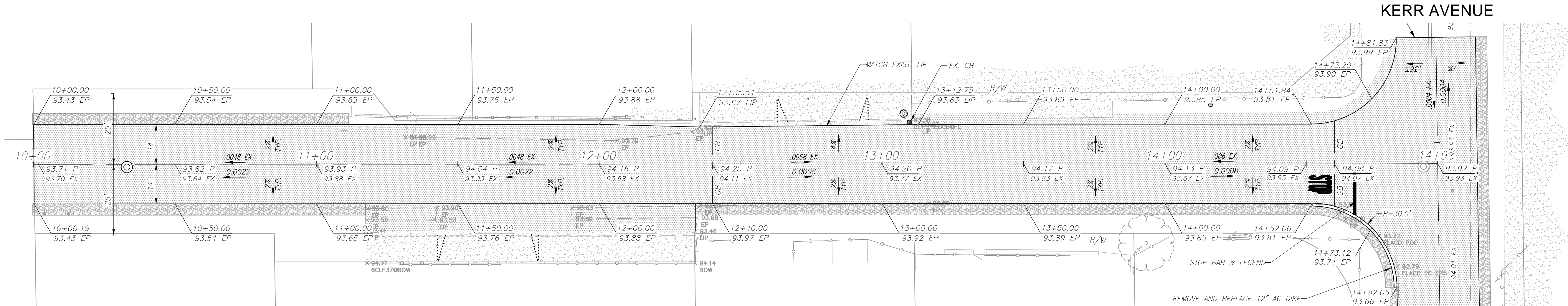
SHEET NUMBER  
**66**  
OF 75 SHEETS

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 27, 2016 - 3:08pm



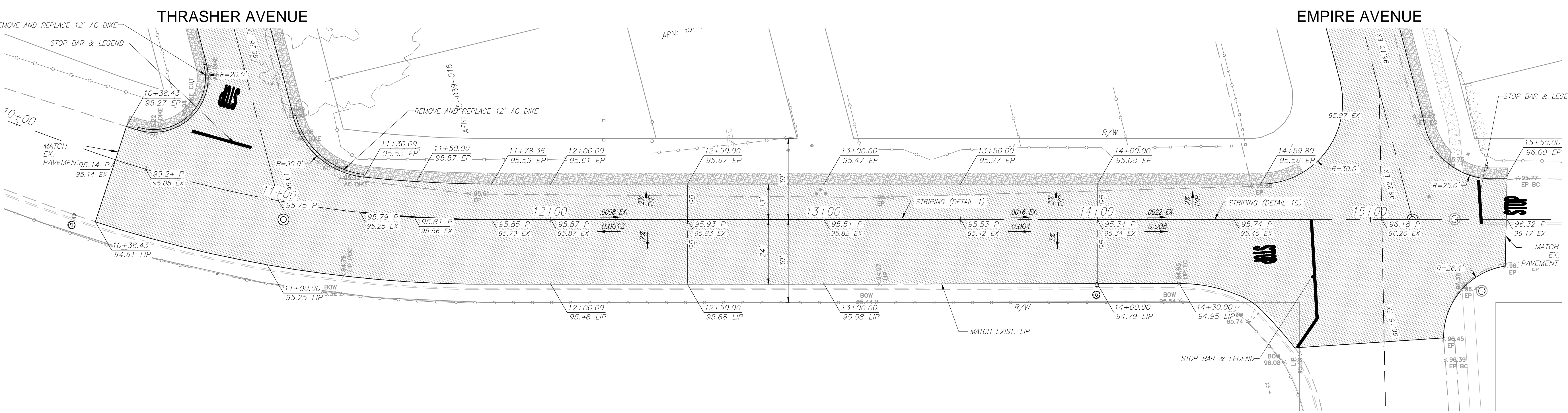
4' SHOULDER  
BACKING (TYP.)

REMOVE AND REPLACE  
AC PAVEMENT (TYP.)



NOTE: AC DIKES PER CALTRANS TYPE A,  
2" SLOTS EVERY 5' TO FULL DEPTH

**PAGE COURT**  
(REFER TO SEWER SHEET 35)



**TIOGA DRIVE**  
(REFER TO SEWER SHEET 52)



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NO	DESCRIPTIONS	DATE	APPROVED

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1716 MORGAN ROAD - MODESTO, CA 95358



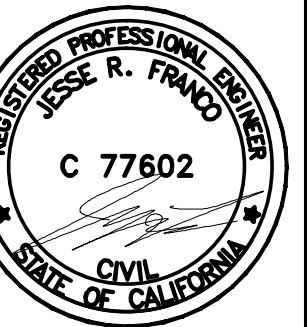
**SEWER TRENCH SURFACE RESTORATION**  
**PAGE COURT AND TIOGA DRIVE**

**AIRPORT NEIGHBORHOOD**  
**SEWER IMPROVEMENTS**  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PK.M.C  
CK BY PK.M.C  
SCALE VARIES

SHEET NUMBER  
**67**  
OF 75 SHEETS

C:\Users\jfranco\Documents\Projects\1716 Morgan Road\1716 Morgan Road - Sewer Surface Restoration - Sheet 67.dwg  
 27, 2016 - 3:11pm



NO.	REVISIONS	DATE	APPROVED

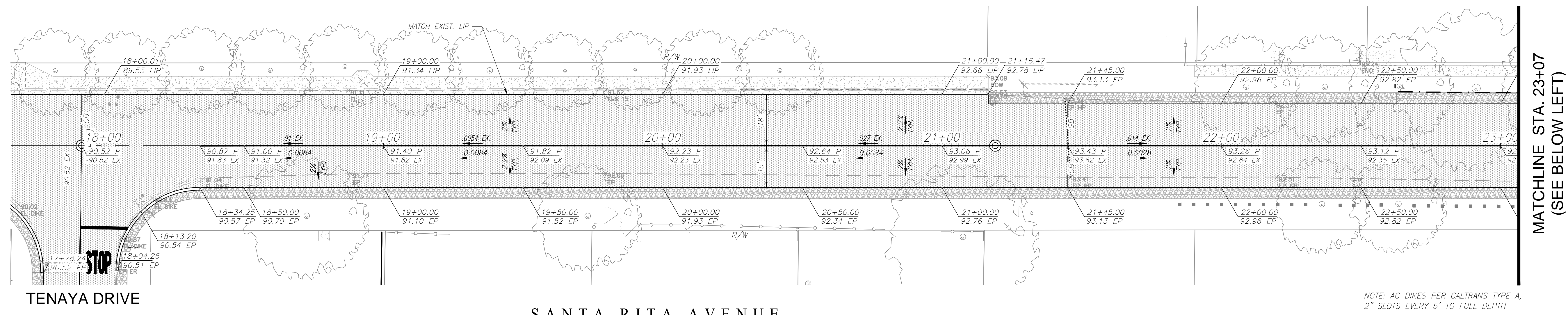
STANISLAUS COUNTY  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



SEWER TRENCH SURFACE RESTORATION  
 SANTA RITA AVENUE - STA. 17+67 TO STA. 33+79  
 AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO UPPSWR01  
 DATE 06/07/2016  
 DR BY PK&LC  
 CK BY PK&LC  
 SCALE VARIES

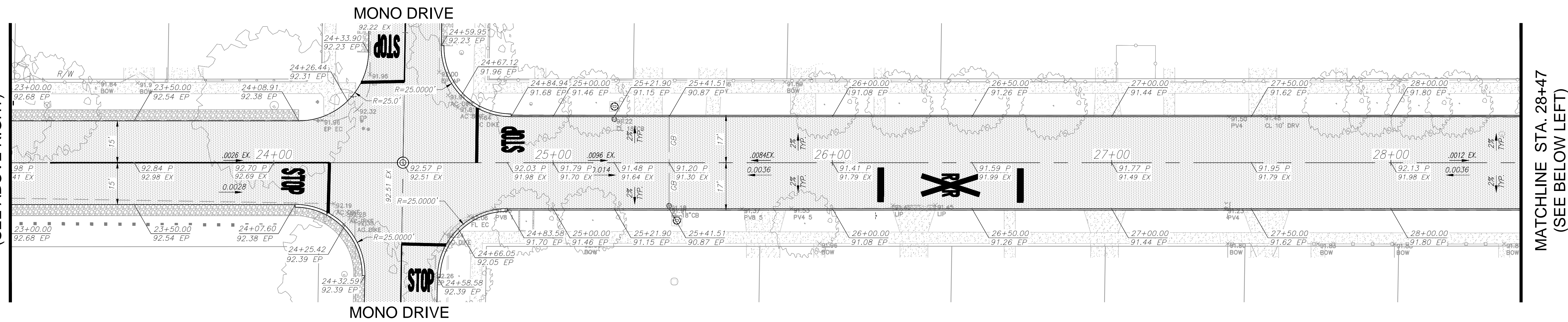
SHEET NUMBER  
**68**  
 OF 75 SHEETS



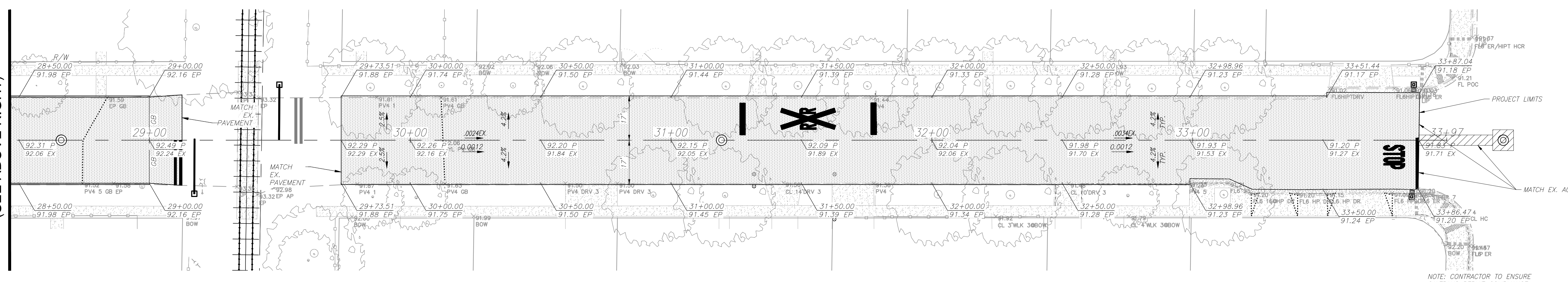
TENAYA DRIVE  
**SANTA RITA AVENUE**  
 (REFER TO SEWER SHEET 8 & 9)

- 4' SHOULDER BACKING (TYP.)
- REMOVE AND REPLACE AC PAVEMENT (TYP.)

NOTE: AC DIKES PER CALTRANS TYPE A, 2" SLOTS EVERY 5' TO FULL DEPTH



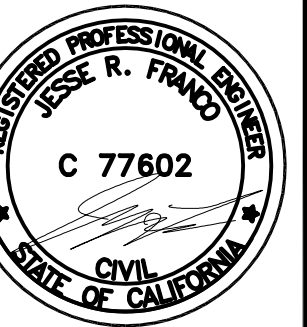
MONO DRIVE  
**SANTA RITA AVENUE**  
 (REFER TO SEWER SHEET 8 & 13)



MATCHLINE STA. 28+47 (SEE ABOVE RIGHT)  
**SANTA RITA AVENUE**  
 (REFER TO SEWER SHEET 13 & 18)

NOTE: CONTRACTOR TO ENSURE CALTRANS PERMIT COMPLIANCE

06/27/2016 3:15pm  
 C:\Users\jfranco\Documents\Projects\SanRita\Sheet\13\13\_SantaRita\_SewerRestoration\_Sheet68.dwg



NO.	DATE	DESCRIPTIONS	REVISIONS	DATE	APPROVED
1	11/22/2016	COUNTY ROADWAY NOT TO INCLUDE STREET LIGHT			

STANISLAUS COUNTY  
 DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



SEWER TRENCH SURFACE RESTORATION  
 SANTA ANA AVENUE - STA. 10+00 TO STA. 22+05

AIRPORT NEIGHBORHOOD  
 SEWER IMPROVEMENTS  
 MODESTO, CALIFORNIA

JOB NO: UPPSWR01  
 DATE: 06/07/2016  
 DR BY: PK.M.C.  
 CK BY: PK.M.C.  
 SCALE: VARIES

SHEET NUMBER  
**69R**  
 OF 75 SHEETS

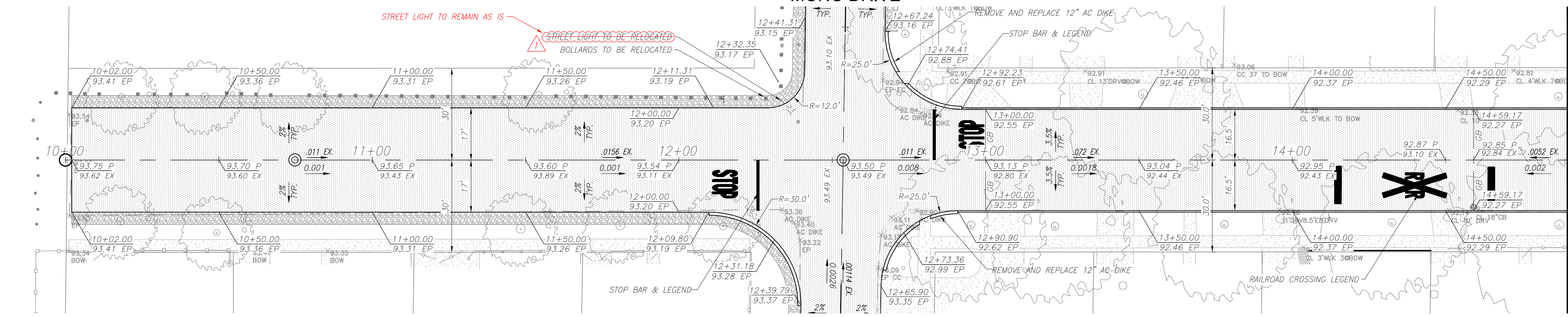
- 4' SHOULDER BACKING (TYP.)
- REMOVE AND REPLACE AC PAVEMENT (TYP.)



MATCHLINE STA. 14+90  
 (SEE BELOW LEFT)

MATCHLINE STA. 20+10  
 (SEE BELOW LEFT)

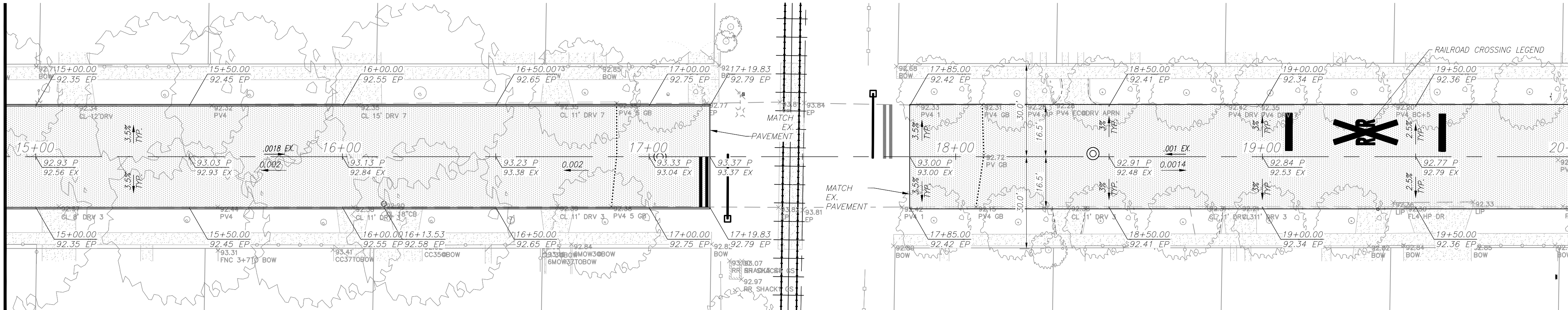
MONO DRIVE



NOTE: AC DIKES PER CALTRANS TYPE A,  
 2" SLOTS EVERY 5' TO FULL DEPTH

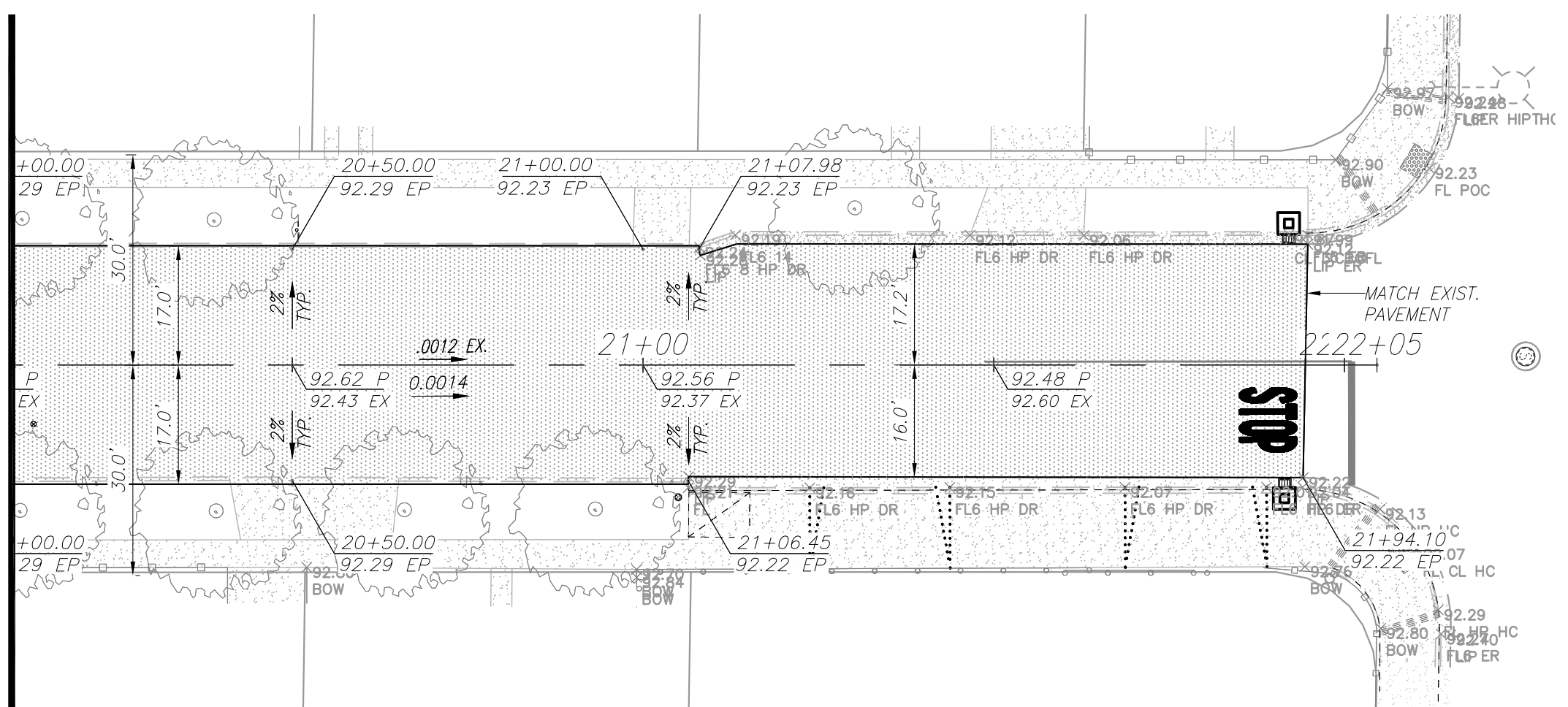
SANTA ANA AVENUE  
 (REFER TO SEWER SHEET 14 AND 15)

RAILROAD



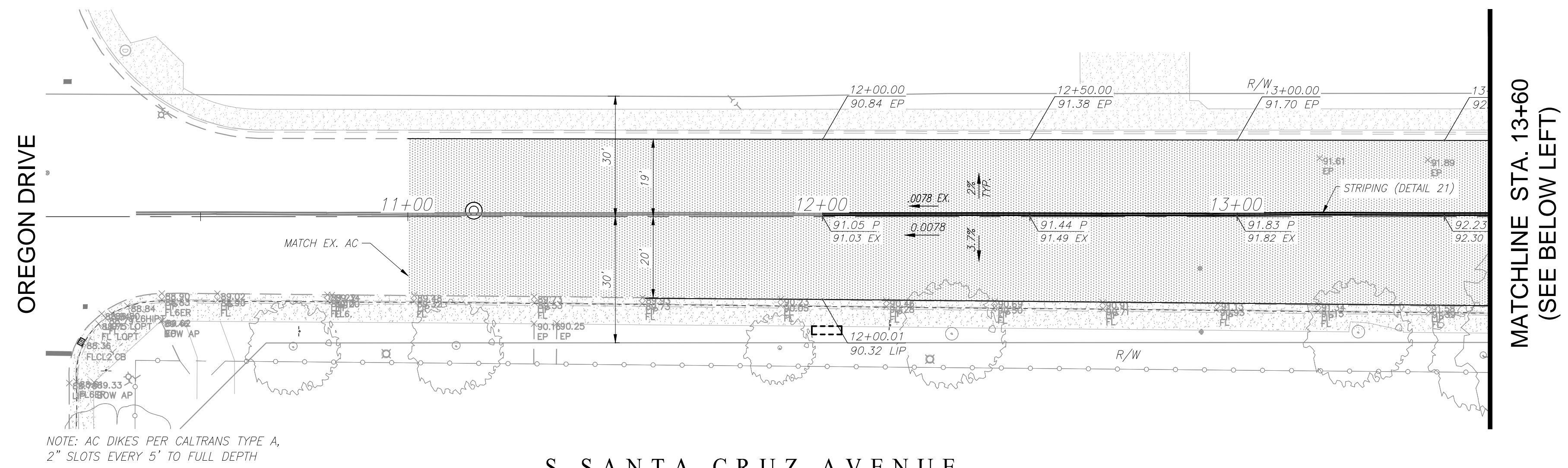
SANTA ANA AVENUE  
 (REFER TO SEWER SHEETS 15 AND 19)

MATCHLINE STA. 20+10  
 (SEE ABOVE RIGHT)

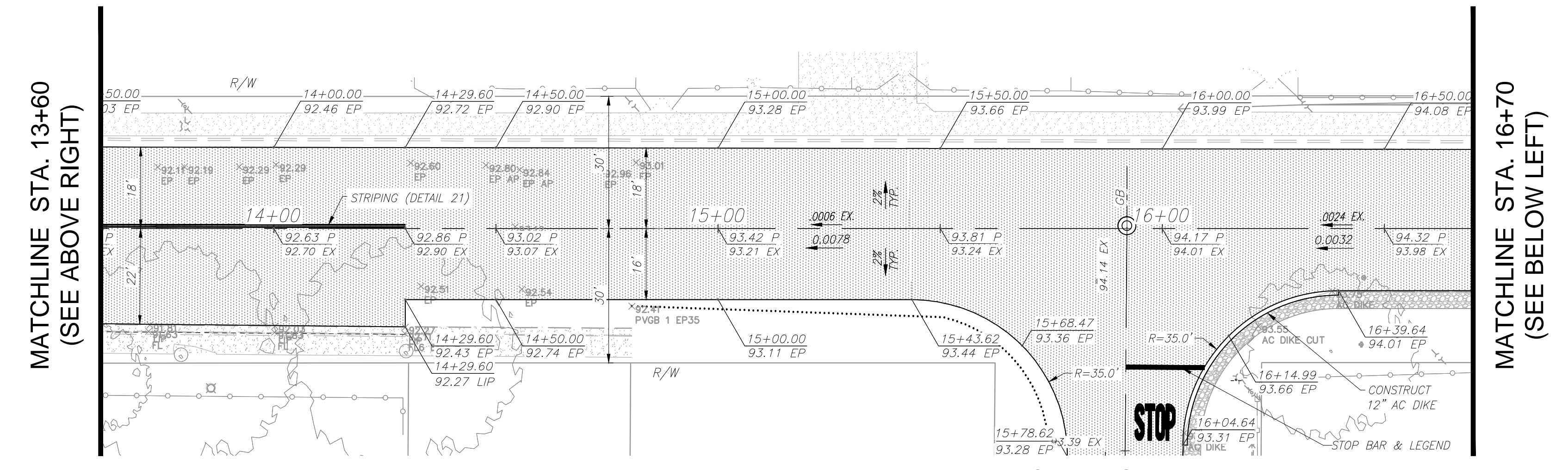


SANTA ANA AVENUE  
 (REFER TO SEWER SHEET 19)

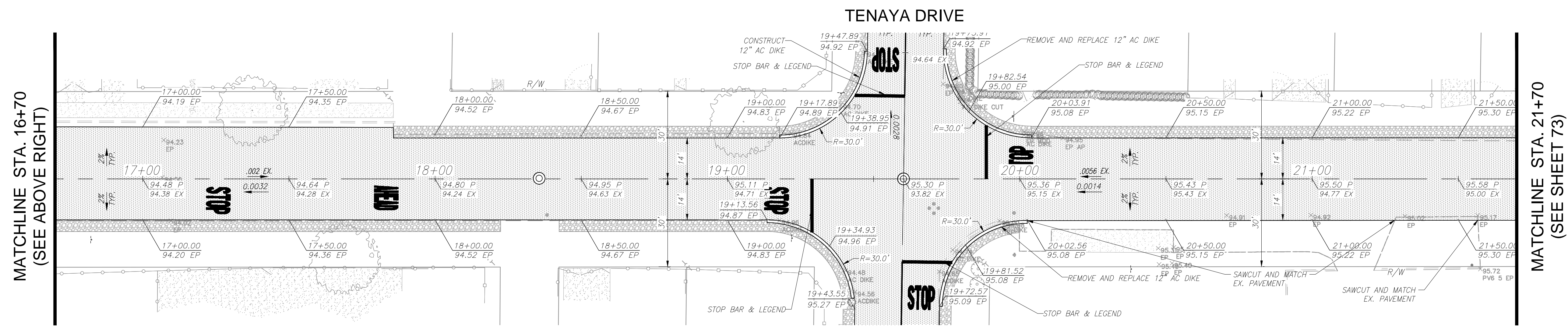
11/22/2016 11:16am J:\12 - Stanislaus County - Airport - Sewer Improvements\19\ANS\DWG\2016 Improvements\Trench Surface Restoration Sheets.dwg



S SANTA CRUZ AVENUE  
(REFER TO SEWER SHEET 28)

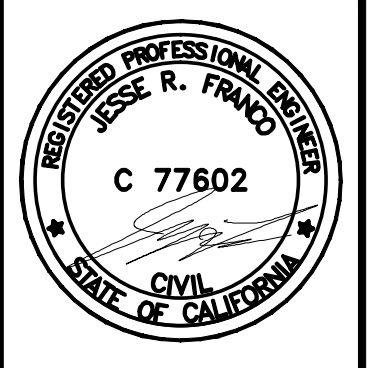


S SANTA CRUZ AVENUE  
(REFER TO SEWER SHEET 28)



S SANTA CRUZ AVENUE  
(REFER TO SEWER SHEETS 23 AND 24)

4' SHOULDER BACKING (TYP.)  
REMOVE AND REPLACE AC PAVEMENT (TYP.)

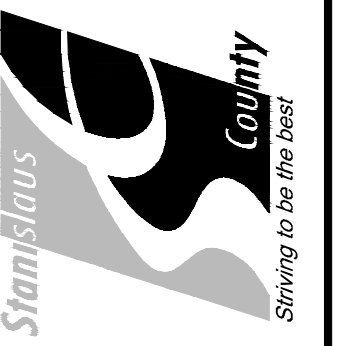


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**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



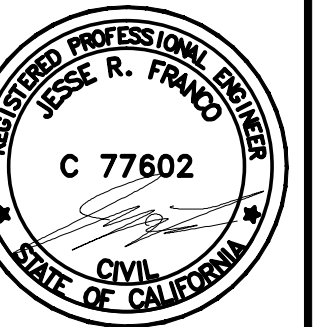
SEWER TRENCH SURFACE RESTORATION  
SANTA CRUZ AVENUE - STA. 11+70 TO STA. 26+90

AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PKM/C  
CK BY PKM/C  
SCALE VARIES

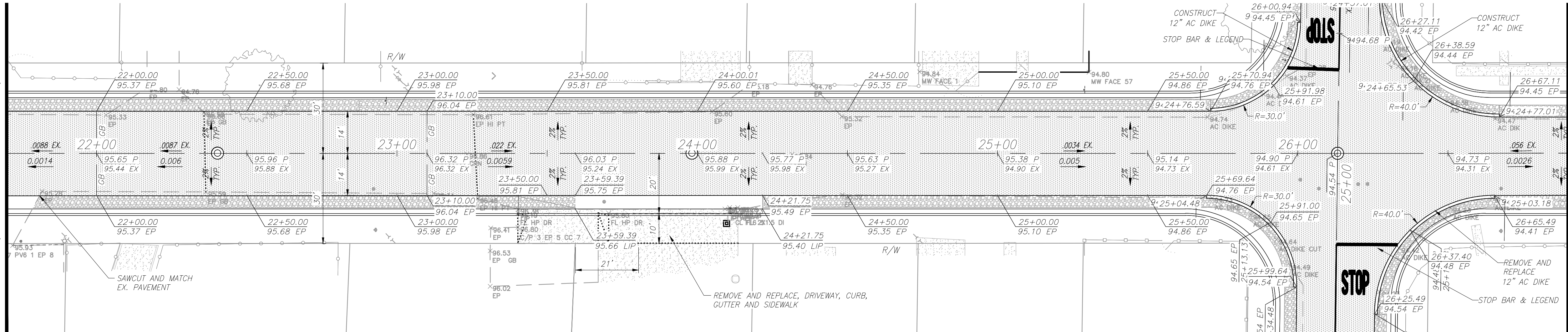
SHEET NUMBER  
**70**  
OF 75 SHEETS

06/27/2016 3:25pm  
 C:\Users\jfranco\Documents\Projects\161601\161601\_1716 Morgan Road - Modesto, CA - Sewer Restoration - Sheet 70.dwg



4' SHOULDER BACKING (TYP.)  
 REMOVE AND REPLACE AC PAVEMENT (TYP.)

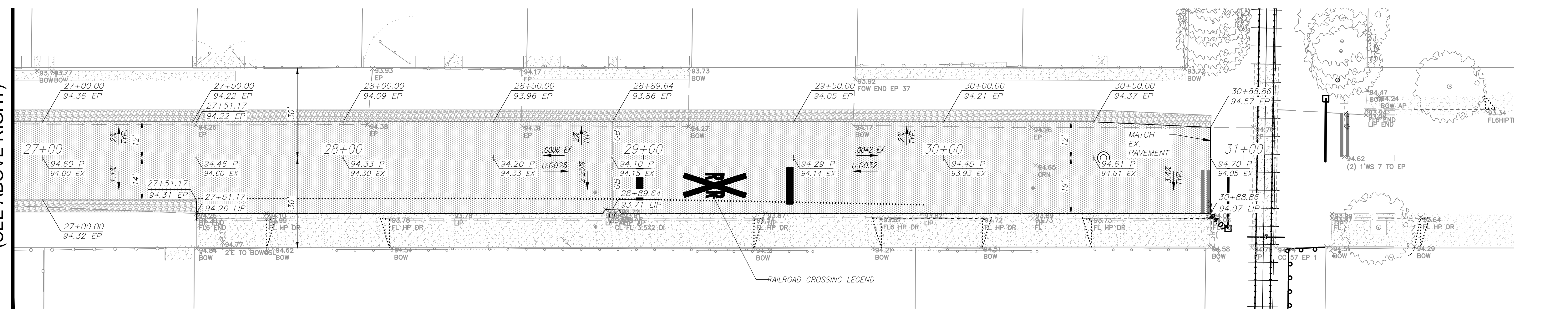
MATCHLINE STA. 21+70  
(SEE ABOVE RIGHT)



MATCHLINE STA. 26+90  
(SEE BELOW LEFT)

**S SANTA CRUZ AVENUE**  
(REFER TO SEWER SHEETS 24 AND 16)

MATCHLINE STA. 26+90  
(SEE ABOVE RIGHT)



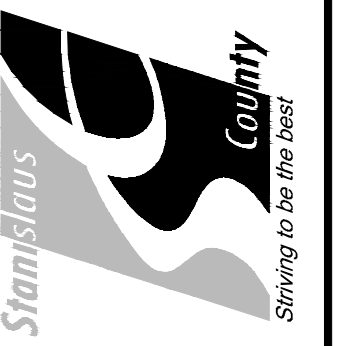
**S SANTA CRUZ AVENUE**  
(REFER TO SEWER SHEET 17)



PREPARED UNDER THE DIRECTION OF:

NO.	REVISIONS	DATE	APPROVED

**STANISLAUS COUNTY**  
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 ENGINEERING AND OPERATIONS DIVISION  
 1716 MORGAN ROAD - MODESTO, CA 95358



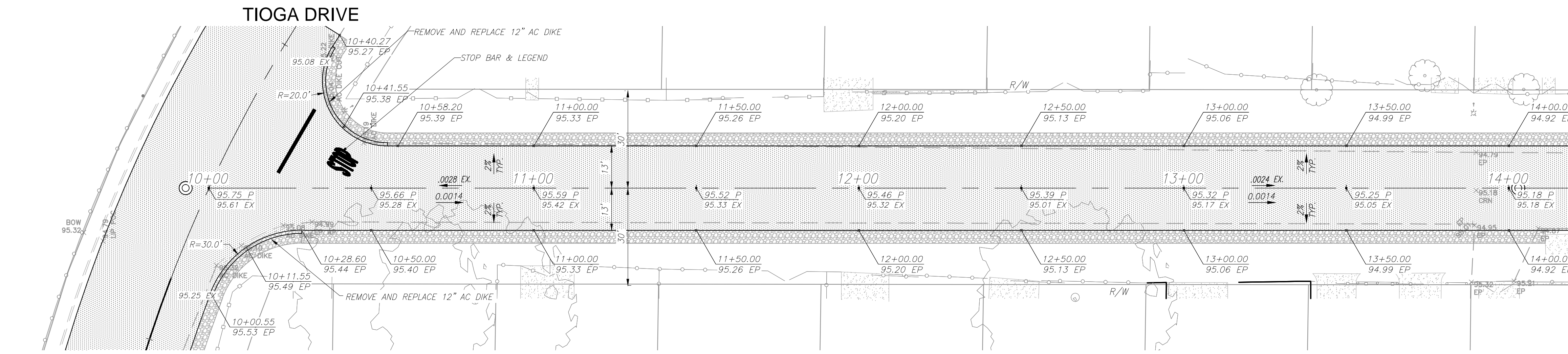
**SEWER TRENCH SURFACE RESTORATION**  
**SANTA CRUZ AVENUE - STA. 26+90 TO STA. 31+00**  
**AIRPORT NEIGHBORHOOD**  
**SEWER IMPROVEMENTS**  
 MODESTO, CALIFORNIA

JOB NO UPPSWR01  
 DATE 06/07/2016  
 DR BY PK.M.C  
 CK BY PK.M.C  
 SCALE VARIES

SHEET NUMBER  
**71**  
 OF 75 SHEETS



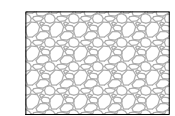



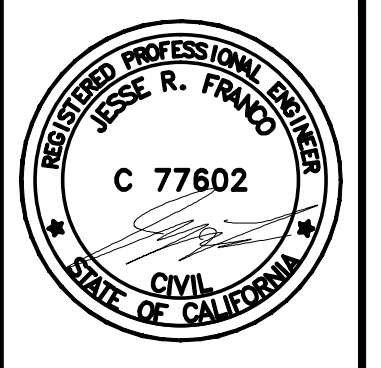


NOTE: AC DIKES PER CALTRANS TYPE A,  
2" SLOTS EVERY 5' TO FULL DEPTH

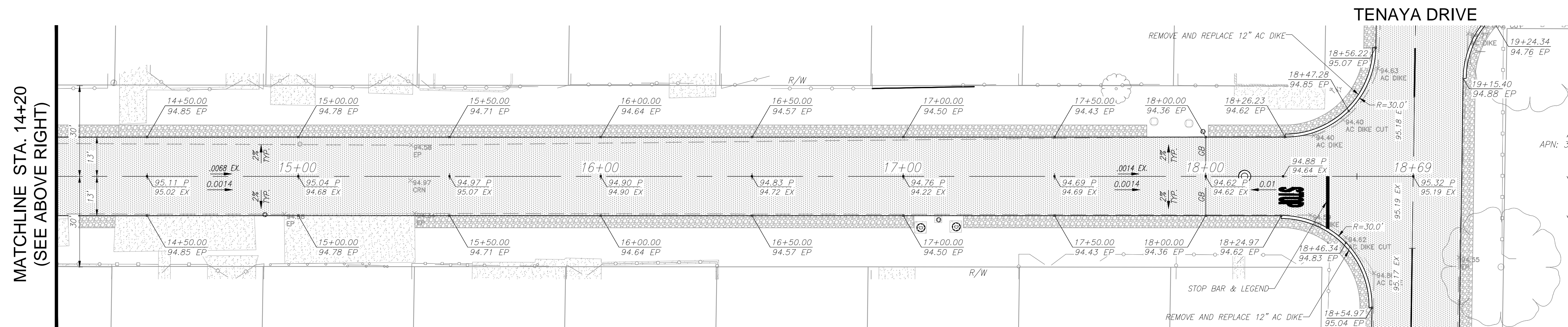
**THRASHER AVENUE**  
(REFER TO SEWER SHEET 53)

MATCHLINE STA. 14+20  
(SEE BELOW LEFT)

-  4' SHOULDER BACKING (TYP.)
-  REMOVE AND REPLACE AC PAVEMENT (TYP.)



NO.	REVISIONS	DATE	APPROVED

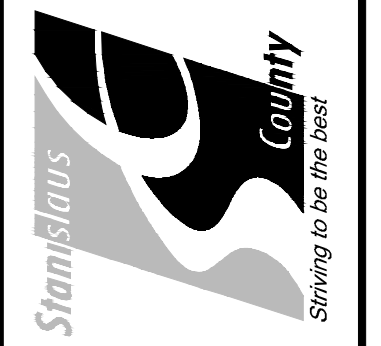
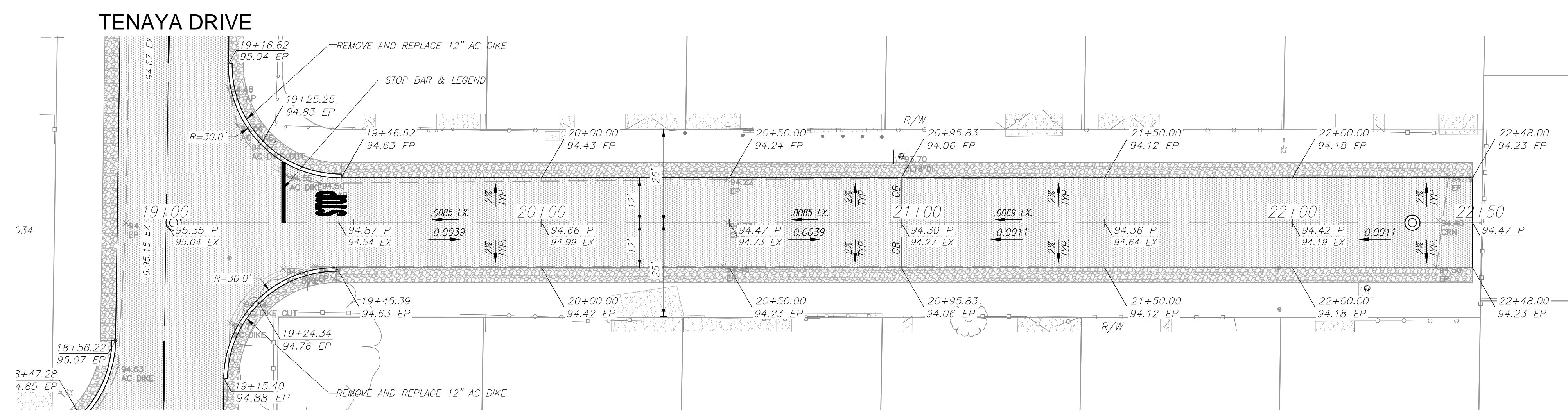


MATCHLINE STA. 14+20  
(SEE ABOVE RIGHT)

**THRASHER AVENUE**  
(REFER TO SEWER SHEET 54)



**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358

**THRASHER AVENUE**  
(REFER TO SEWER SHEET 47)

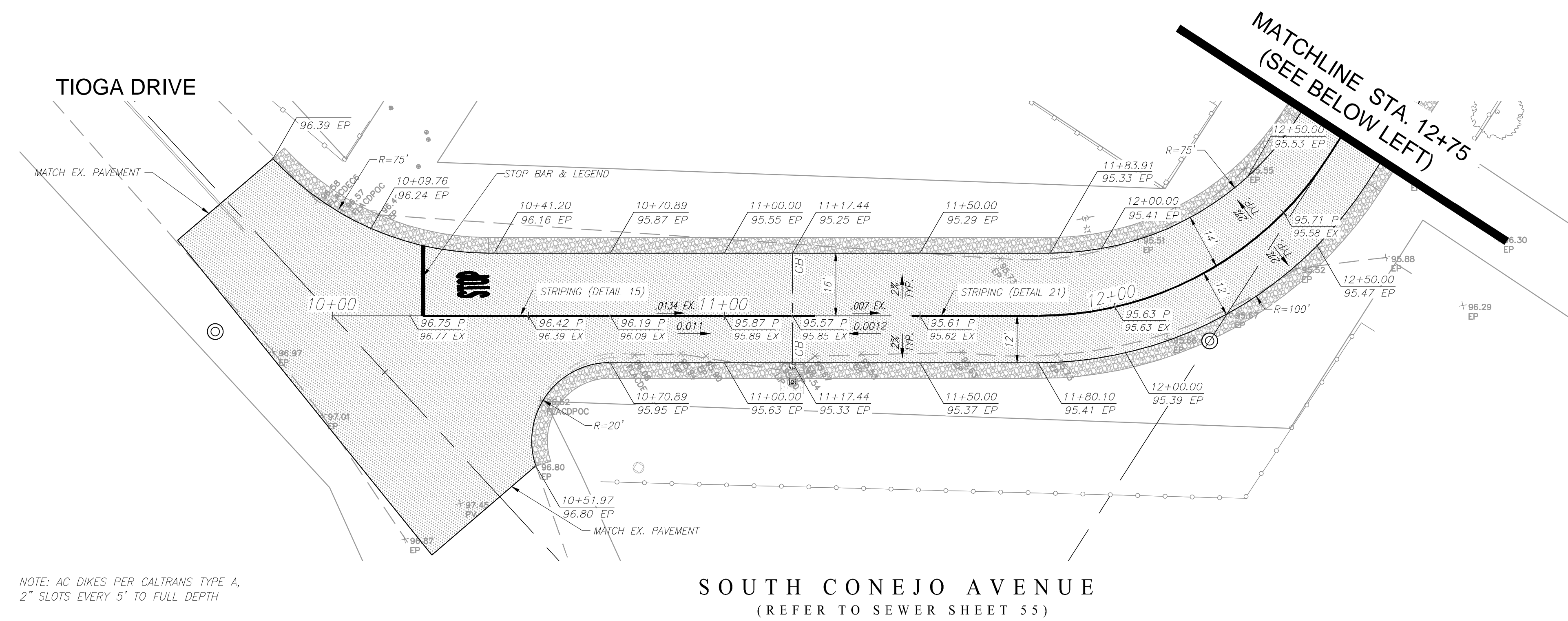
SEWER TRENCH SURFACE RESTORATION  
THRASHER AVENUE - STA. 10+00 TO STA. 22+50  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO: UPPSWR01  
DATE: 06/07/2016  
DR BY: PK.M.C.  
CK BY: PK.M.C.  
SCALE: VARIES

SHEET NUMBER  
**73**  
OF 75 SHEETS

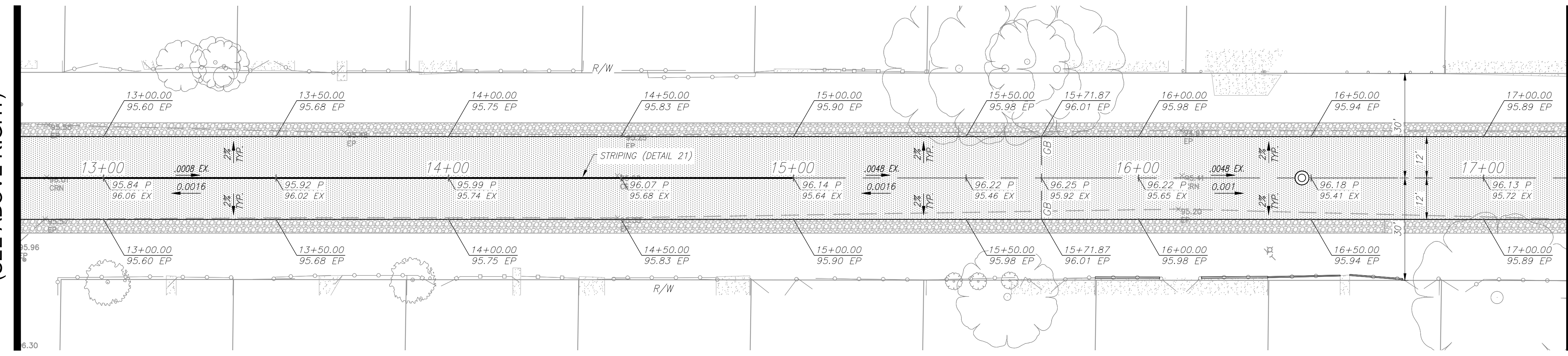
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 C:\Users\kcorbett\Documents\Projects\160616\160616\_57121\_Trench\_Surface\_Restoration\_Sheets.dwg



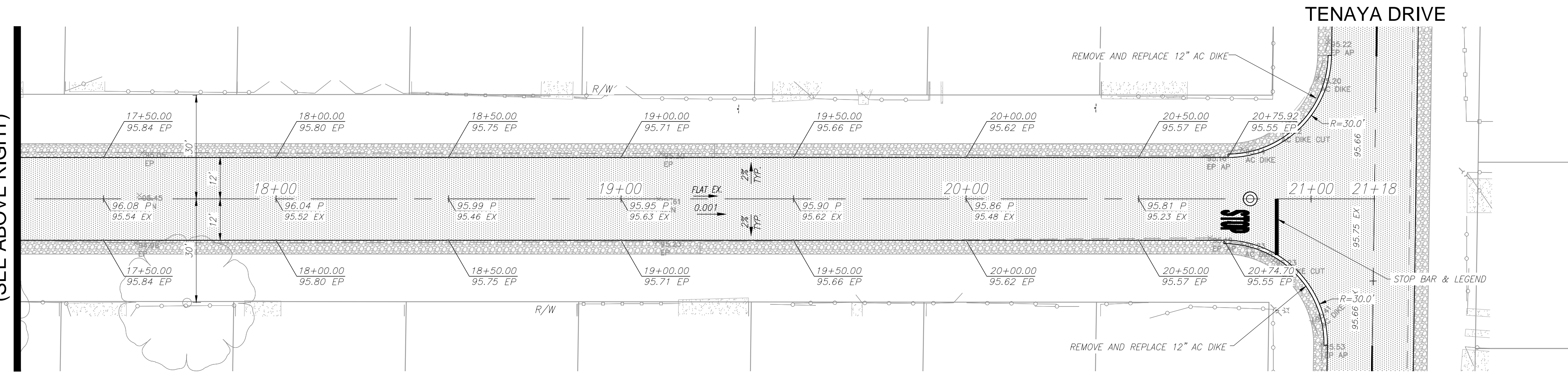


NOTE: AC DIKES PER CALTRANS TYPE A,  
2" SLOTS EVERY 5' TO FULL DEPTH

**SOUTH CONEJO AVENUE**  
(REFER TO SEWER SHEET 55)

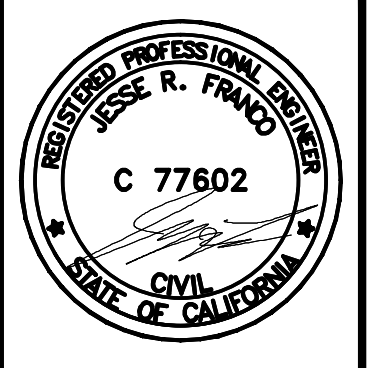


**SOUTH CONEJO AVENUE**  
(REFER TO SEWER SHEET 56)



**SOUTH CONEJO AVENUE**  
(REFER TO SEWER SHEET 57)

4' SHOULDER BACKING (TYP.)  
REMOVE AND REPLACE AC PAVEMENT (TYP.)

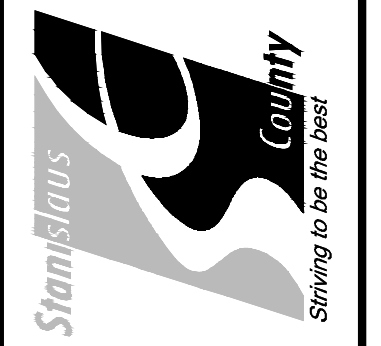


PREPARED UNDER THE DIRECTION OF:

NO.	REVISIONS	DATE	APPROVED



**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



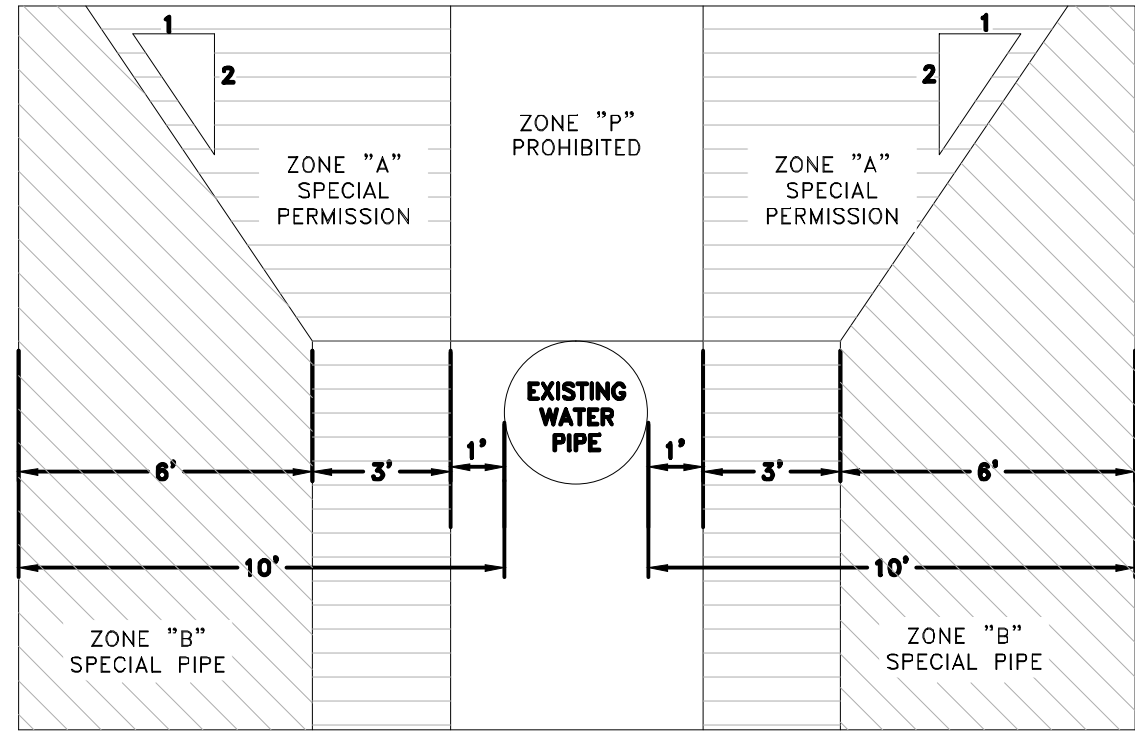
SEWER TRENCH SURFACE RESTORATION  
S CONEJO AVENUE - STA. 10+00 TO STA. 21+18  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO UPPSWR01  
DATE 06/07/2016  
DR BY PKMLC  
CK BY PKMLC  
SCALE VARIES

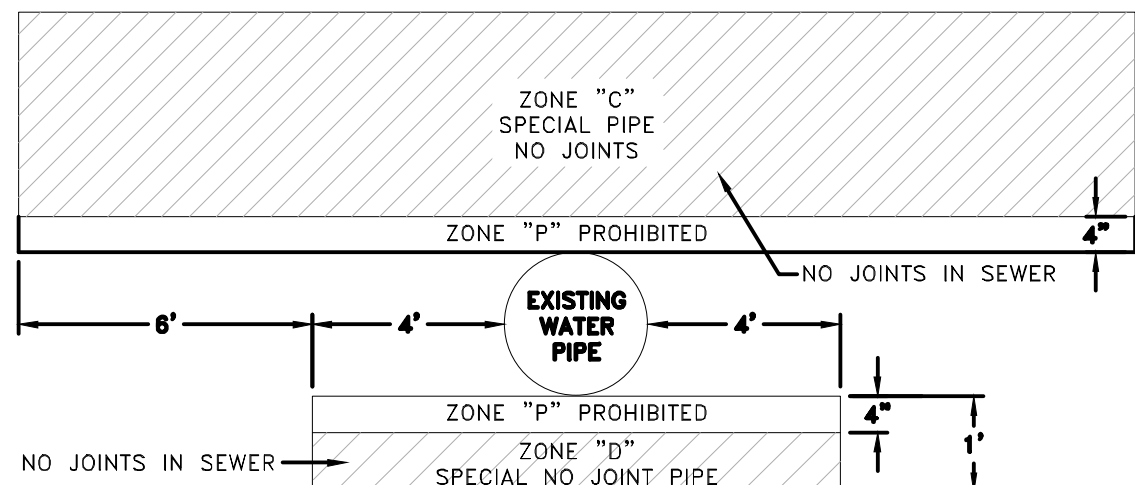
SHEET NUMBER  
**75**  
OF 75 SHEETS

06/27/2016 3:41pm C:\Users\kcorrao\appdata\local\temp\kcorrao\S712\Trench Surface Restoration Sheets.dwg

**SPECIAL CONSTRUCTION REQUIREMENTS**  
(TO BE USED ONLY WHERE REQUIRED SEPARATION CANNOT BE OBTAINED)  
**CASE 2-NEW SEWER LINE BEING INSTALLED**



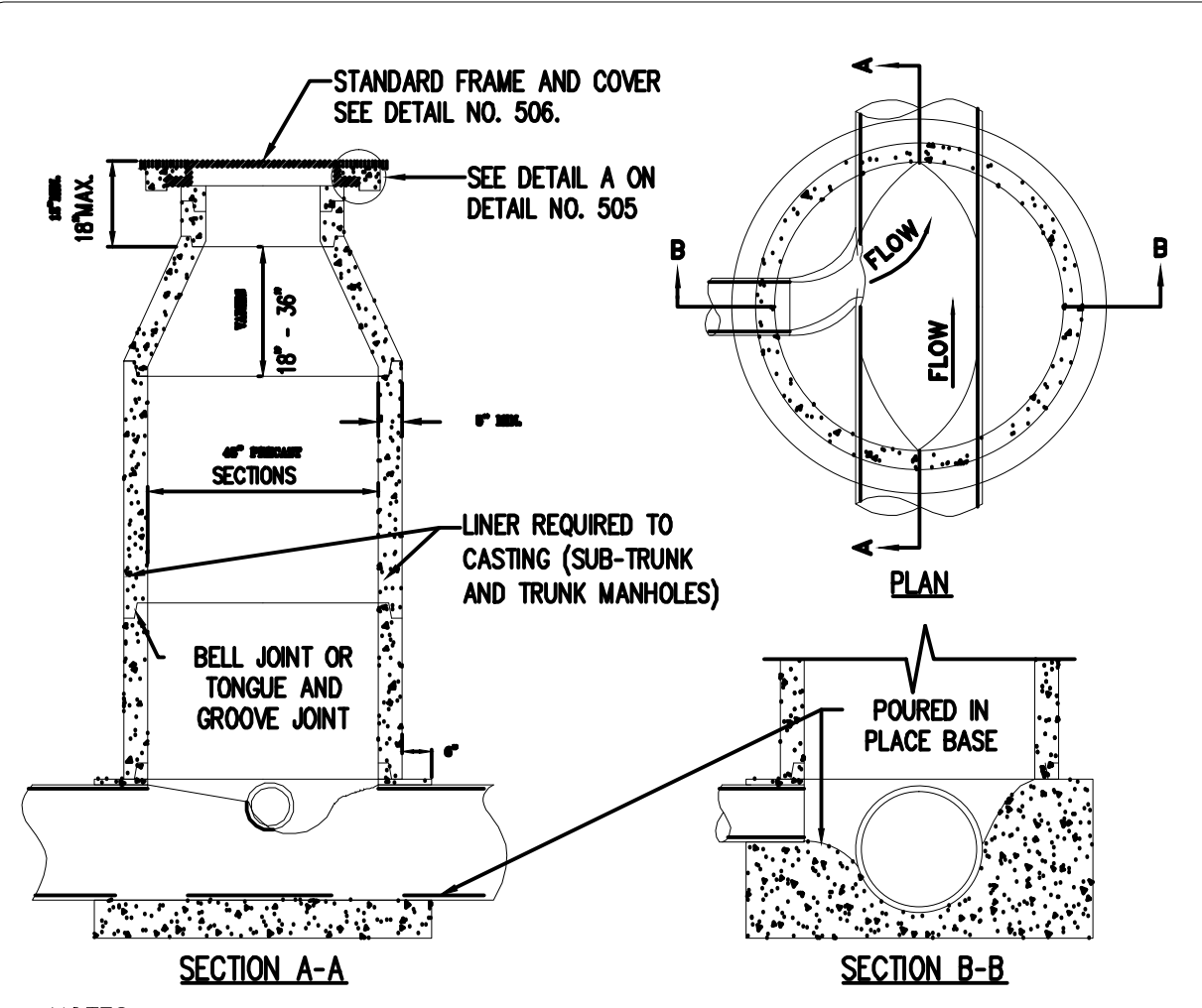
**PARALLEL CONSTRUCTION**



**PERPENDICULAR CONSTRUCTION**

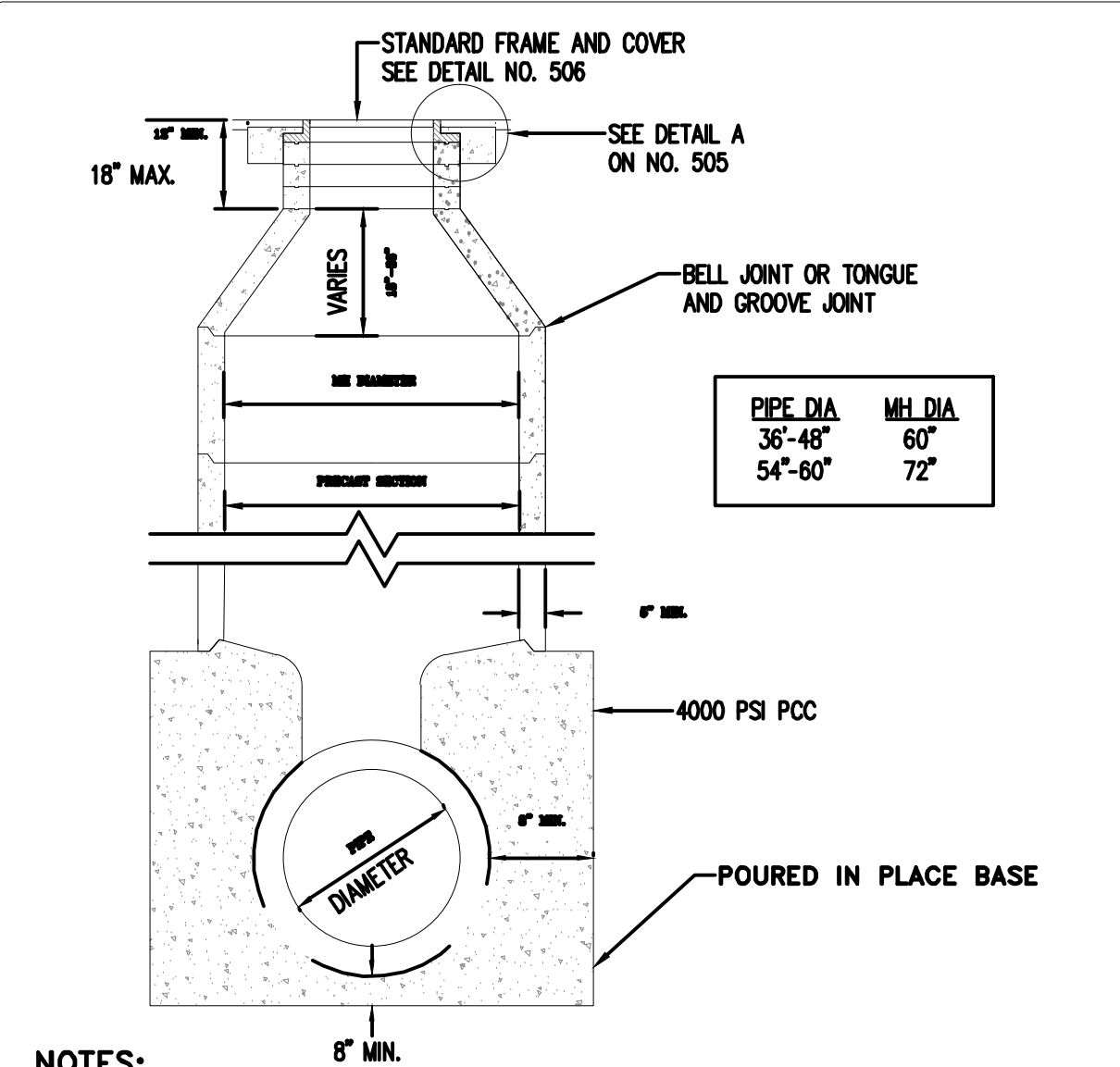
- NOTES:**
1. ZONE "P" IS A PROHIBITED CONSTRUCTION ZONE.
  2. ZONE "C", SPECIAL PIPE, SHALL BE DUCTILE IRON, STEEL CASING PIPE OR APPROVED EQUAL.

APPROVED BY: BILL SANDHU, CITY ENGINEER C59850	<b>SANITARY SEWER</b>	
REVISED: DATE:	CALIFORNIA HEALTH DEPARTMENT REQUIREMENTS	
REVISED: DATE:	ADOPTED BY CITY COUNCIL RESOLUTION NO. 2014-945	DETAIL NO. 500



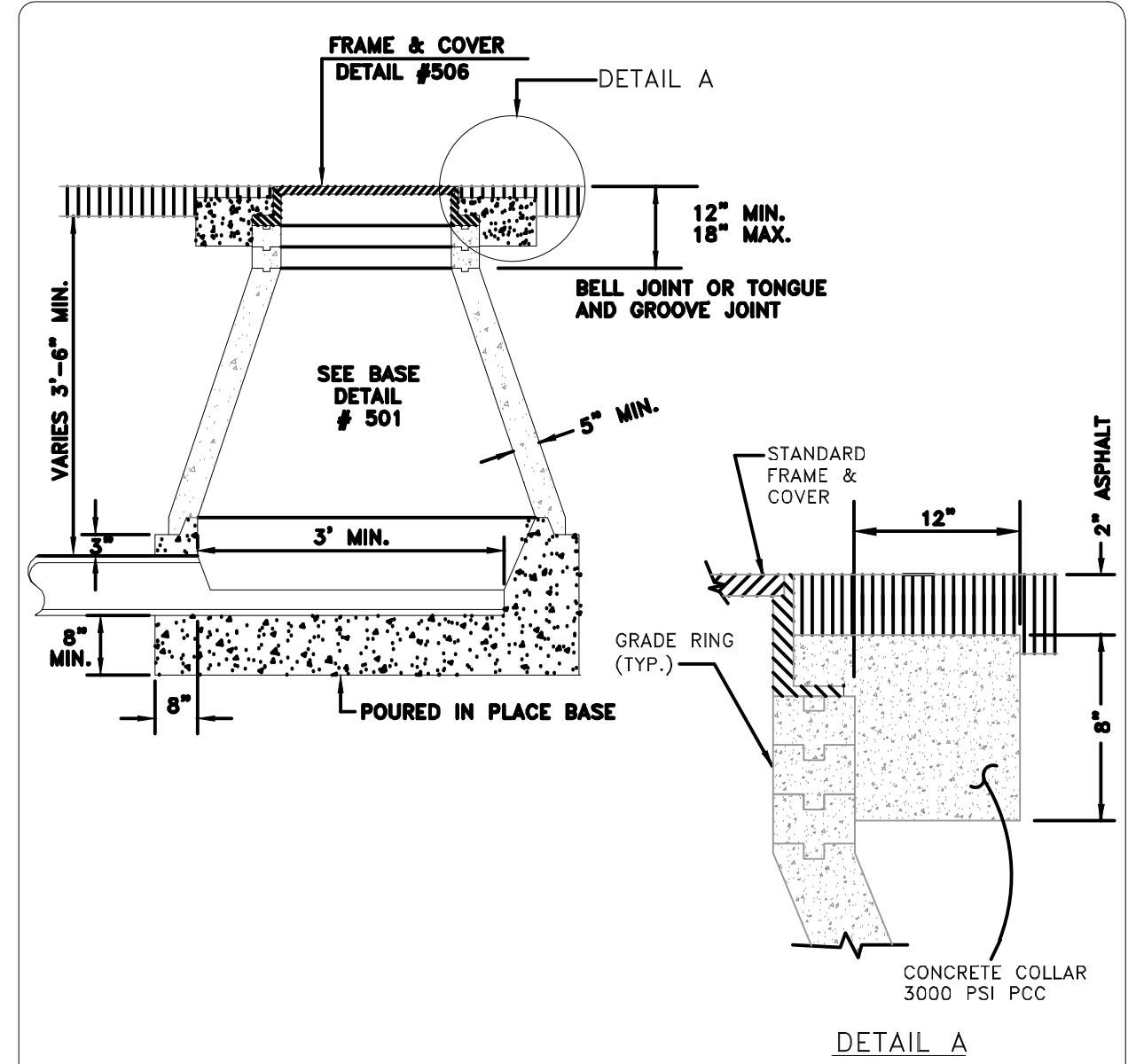
- NOTES:**
1. PIPE TO BE LAID THROUGH MANHOLE AND TOP PORTION REMOVED AFTER CONCRETE HAS SET.
  2. MORTAR ALL JOINTS INSIDE AND OUT.
  3. INCOMING SMALLER PIPES SHALL MATCH CROWNS OF THE LARGER PIPE.
  4. A CHANGE IN DIRECTION OF FLOW IN A MANHOLE REQUIRES A 0.10' FALL (MIN).
  5. ADJUST FRAME TO GRADE AFTER PAVING.
  6. ALL PRECAST CONCRETE SHALL BE DESIGNED TO WITHSTAND H20 LOADING.
  7. IN TRAFFIC AREAS CONCRETE COLLAR SHALL BE MADE WITH 3000 PSI PCC, HIGH EARLY STRENGTH. BARRICADES SHALL BE REMOVED IN 24 HOURS.
  8. ALL INTERIOR SURFACES OF THE PRECAST MANHOLE SECTION FOR SUBTRUNK AND TRUNK MANHOLES SHALL BE LINED.
  9. NOT FOR PVC PIPE.
  10. FOR FLY-LINE INSTALLATION SEE DETAIL 508.

APPROVED BY: BILL SANDHU, CITY ENGINEER C59850	<b>SANITARY SEWER</b>	
REVISED: DATE:	LATERAL & SUBTRUNK MANHOLE	
REVISED: DATE:	ADOPTED BY CITY COUNCIL RESOLUTION NO. 2014-945	DETAIL NO. 501



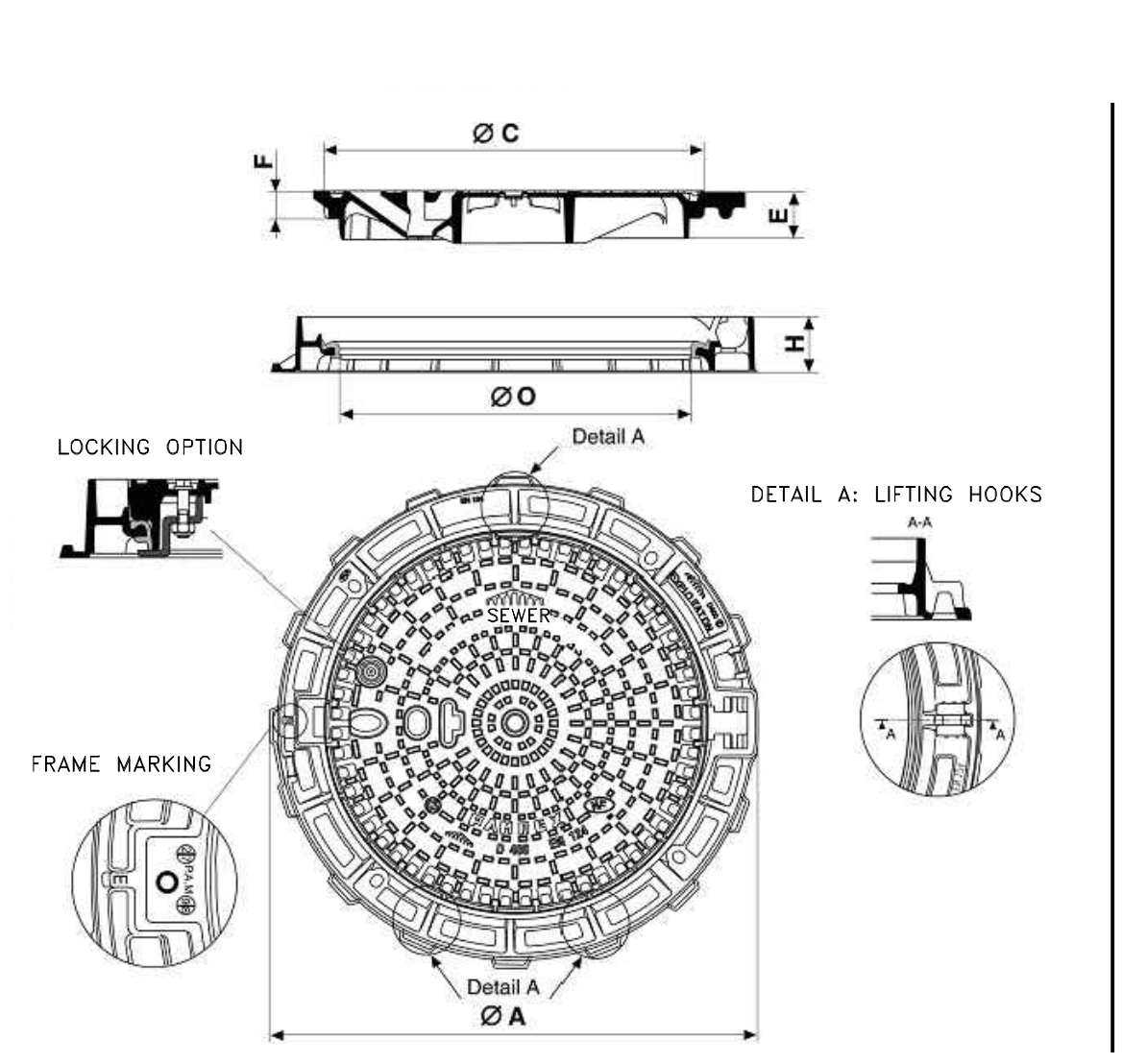
- NOTES:**
1. PIPE TO BE LAID THROUGH MANHOLE AND TOP PORTION REMOVED AFTER CONCRETE HAS SET.
  2. MORTAR ALL JOINTS INSIDE AND OUT.
  3. INCOMING SMALLER PIPES SHALL MATCH CROWNS OF THE LARGER PIPE.
  4. ADJUST FRAME TO GRADE AFTER PAVING.
  5. ALL PRECAST CONCRETE SHALL BE DESIGNED TO WITHSTAND H20 LOADING.
  6. IN TRAFFIC AREAS, CONCRETE COLLAR SHALL BE MADE WITH 3000 PSI PCC, HIGH-EARLY STRENGTH. BARRICADES SHALL BE REMOVED IN 24 HOURS.
  7. ALL INTERIOR SURFACES OF THE PRECAST MANHOLE SECTIONS SHALL BE LINED WITH A POLYVINYL CHLORIDE LINING SYSTEM (PVC LINER).
  8. FOR FLY-LINE INSTALLATION SEE DETAIL 508.

APPROVED BY: BILL SANDHU, CITY ENGINEER C59850	<b>SANITARY SEWER</b>	
REVISED: DATE:	TRUNK MANHOLE	
REVISED: DATE:	ADOPTED BY CITY COUNCIL RESOLUTION NO. 2014-945	DETAIL NO. 502



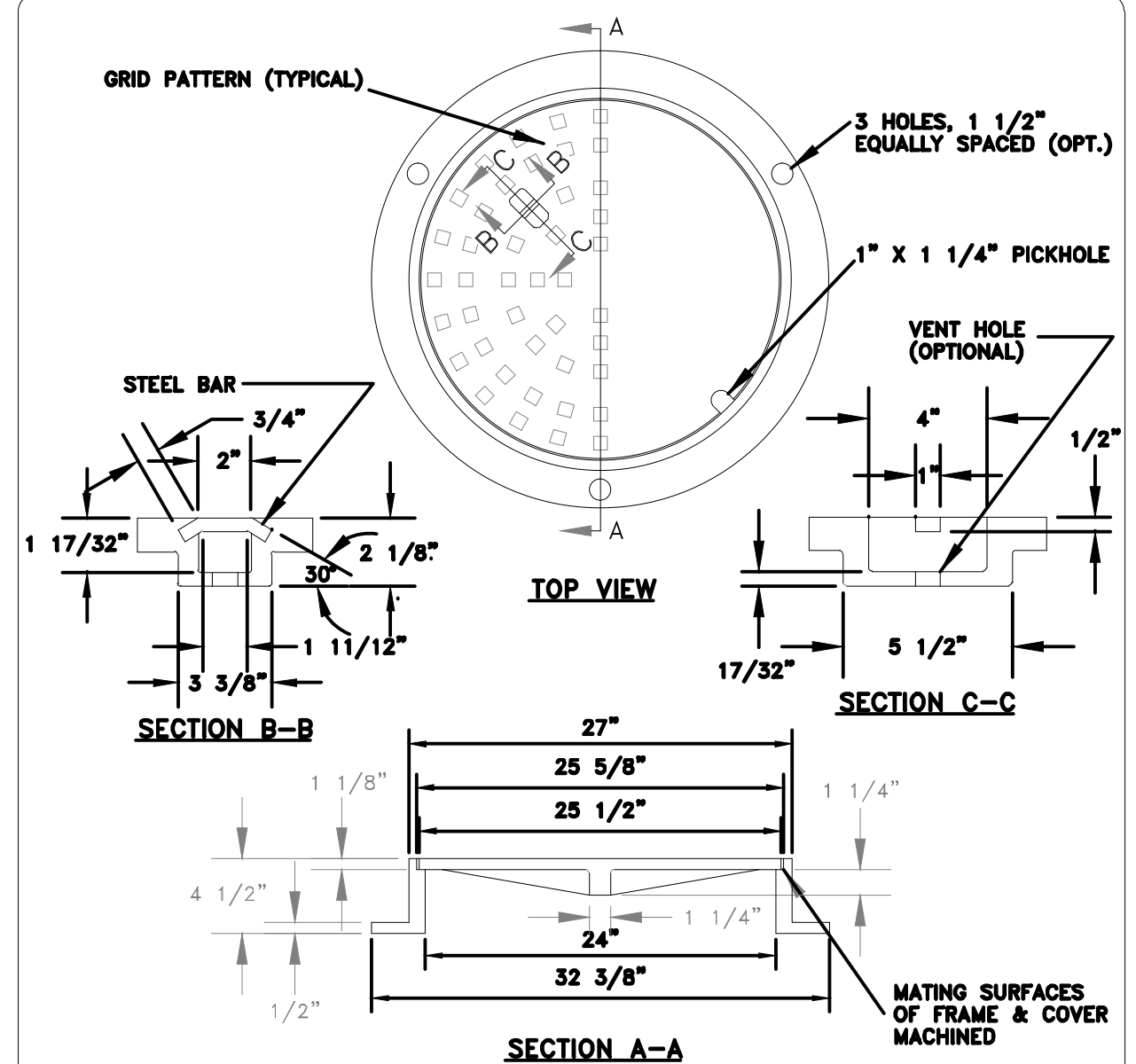
- NOTES:**
1. FOR VCP AND RCP, PIPE TO BE LAID THROUGH MANHOLE AND TOP PORTION REMOVED AFTER CONCRETE HAS SET. FOR PVC AND DIP, PIPE SHALL ENTER MANHOLE 2" AND HAVE WATER TIGHT GASKETS.
  2. INCOMING SMALLER PIPES SHALL MATCH CROWNS OF THE LARGER PIPE.
  3. A CHANGE IN DIRECTION OF FLOW IN A MANHOLE REQUIRES A .10' FALL (MIN).
  4. ADJUST FRAME TO GRADE AFTER PAVING.
  5. ALL PRECAST CONCRETE SHALL BE DESIGNED TO WITHSTAND H20 LOADING.
  6. IN TRAFFIC AREAS CONCRETE COLLAR SHALL BE MADE WITH 3000 PSI PCC, HIGH EARLY STRENGTH. BARRICADES SHALL BE REMOVED IN 24 HOURS.
  7. MORTAR ALL JOINTS INSIDE AND OUT.

APPROVED BY: BILL SANDHU, CITY ENGINEER C59850	<b>SANITARY SEWER</b>	
REVISED: DATE:	TERMINAL MANHOLE	
REVISED: DATE:	ADOPTED BY CITY COUNCIL RESOLUTION NO. 2014-945	DETAIL NO. 505



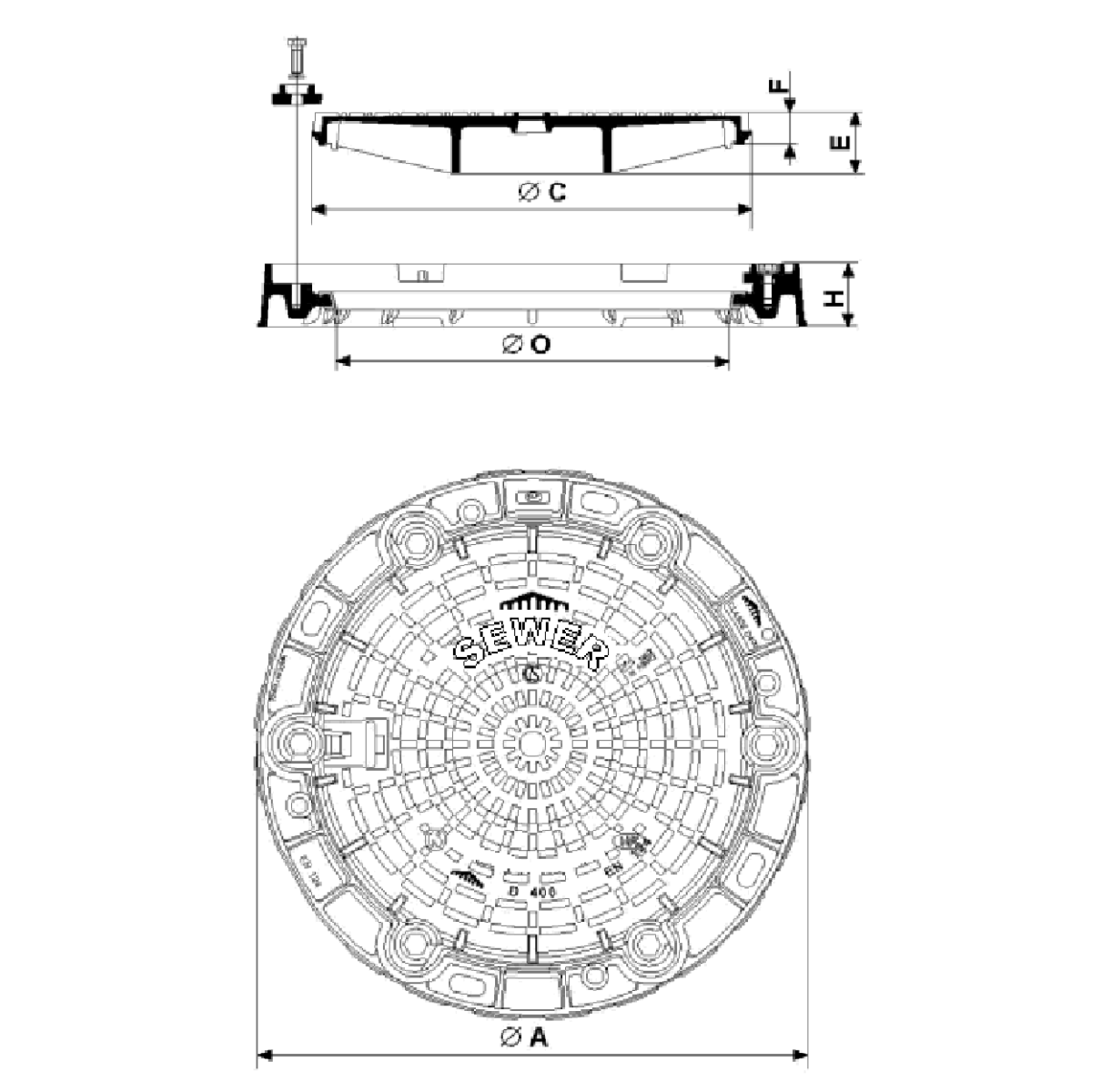
MODEL	A INCHES	C INCHES	E INCHES	F INCHES	H INCHES	O INCHES	REFERENCE	WEIGHT LBS	COVER WEIGHT LBS
NON VENTILATED	33	28	3 1/2	2	4	24	CDPA60EHSW	195	122

APPROVED BY: BILL SANDHU, CITY ENGINEER C59850	<b>SANITARY SEWER</b>	
REVISED: DATE:	PAMREX 24 INCH MANHOLE FRAME AND COVER	
REVISED: DATE:	ADOPTED BY CITY COUNCIL RESOLUTION NO. 2014-945	DETAIL NO. 506



- NOTES:**
1. DIMENSIONS FOR FRAME AND COVER SHALL MATCH. MATING SURFACES OF FRAME AND COVER SHALL BE MACHINED TO INSURE NO-ROCK FIT.
  2. COVER SHALL HAVE VERTICAL SIDES. NO TAPERED COVERS SHALL BE INSTALLED.
  3. WEIGHT OF COVER SHALL BE NO LESS THAN 130 POUNDS. WEIGHT OF FRAME SHALL BE NO LESS THAN 140 POUNDS.
  4. SOUTH BAY FOUNDRY SBF A-515 W/624 COVER OR APPROVED EQUAL.
  5. EACH MANHOLE COVER SHALL BE STAMPED "SEWER" AND "CITY OF MODESTO" WITH 1" TO 2" LETTERING.

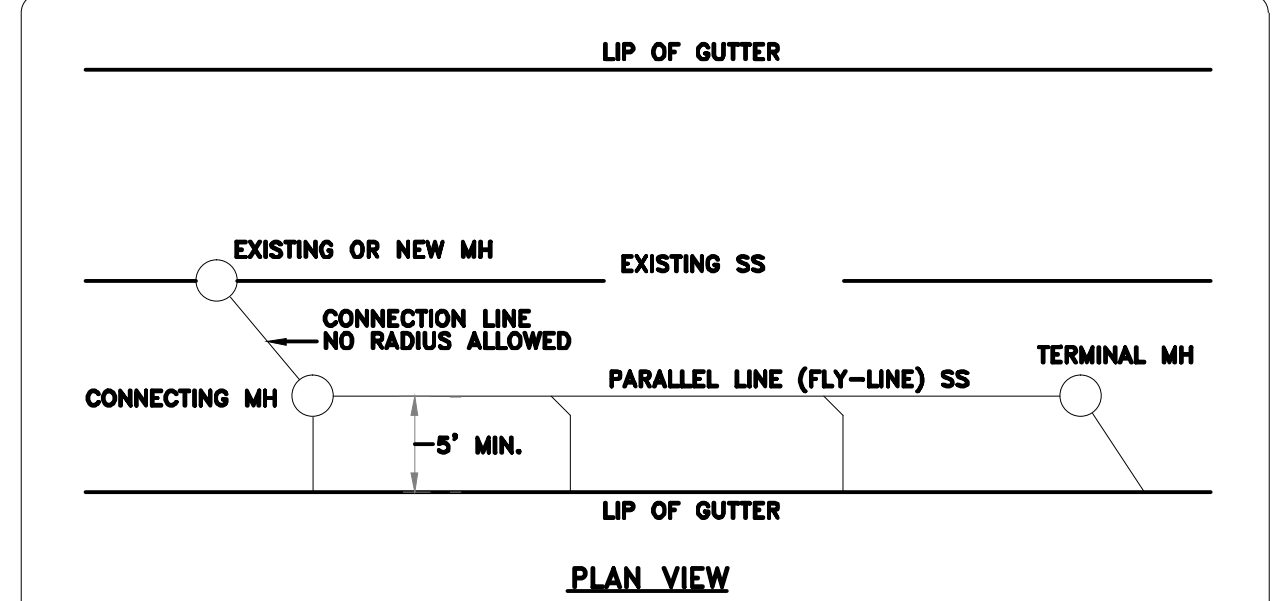
APPROVED BY: BILL SANDHU, CITY ENGINEER C59850	<b>SANITARY SEWER</b>	
REVISED: DATE:	CAST IRON MANHOLE FRAME AND COVER	
REVISED: DATE:	ADOPTED BY CITY COUNCIL RESOLUTION NO. 2014-945	DETAIL NO. 506B



MODEL	A INCHES	O INCHES	H INCHES	C INCHES	E INCHES	F INCHES	REFERENCE	WEIGHT LBS	COVER WEIGHT LBS
NON VENTILATED	33 1/2	24	4	26 7/8	3	5/7	2 CDPA60EHSW	225	116

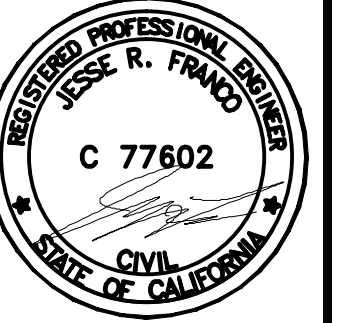
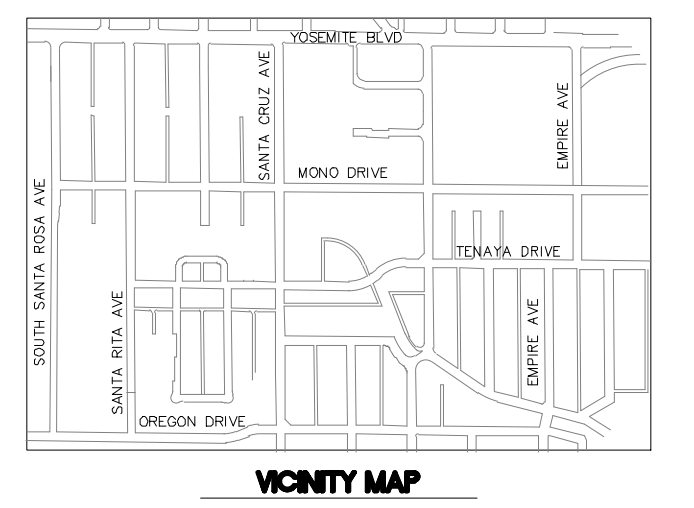
**NOTE:** THIS MANHOLE FRAME & COVER SHALL BE USED IN AREAS WHERE INSTALLATION IS IN THE FLOOD WAY OR FLOOD PLAIN OR WHERE WATER INTRUSION IS A FACTOR.

APPROVED BY: BILL SANDHU, CITY ENGINEER C59850	<b>SANITARY SEWER</b>	
REVISED: DATE:	PAMTIGHT 24 INCH MANHOLE FRAME AND COVER	
REVISED: DATE:	ADOPTED BY CITY COUNCIL RESOLUTION NO. 2014-945	DETAIL NO. 507



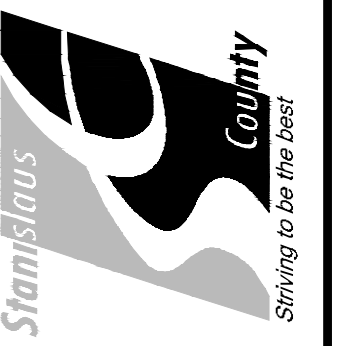
- NOTES:**
1. PARALLEL LINE (FLY-LINE) PIPE SHALL FOLLOW STREET ALIGNMENT, BUT SHALL NOT HAVE A RADIUS LESS THAN 200' (FEET).
  2. PARALLEL LINES (FLY-LINES) TO BE CONSTRUCTED PARALLEL TO CENTERLINE OF A ROAD OR PARALLEL TO THE EXISTING TRUNK LINE.
  3. CONTRACTOR SHALL CONSTRUCT A MINIMUM OF TWO MANHOLES PER PARALLEL LINE (FLY-LINE), TERMINAL MANHOLE AND CONNECTING MANHOLE ADJACENT TO THE EXISTING LINE. NO RADIUS MAY BE INSTALLED BETWEEN THE CONNECTING MANHOLE AND EXISTING MANHOLE.
  4. NO CLEANOUTS OR LAMP HOLES WILL BE ACCEPTED ON A PARALLEL LINE (FLY-LINE) IN A PUBLIC R/W OR EASEMENT.
  5. PARALLEL LINE (FLY-LINE) TO BE CONSTRUCTED IN THE R/W NO CLOSER THAN 5' FROM THE LIP OF GUTTER.
  6. PARALLEL LINE (FLY-LINE) TO HAVE A MINIMUM SEPARATION OF 5', MEASURED OUTSIDE BELL TO OUTSIDE BELL, FROM ANY OTHER PARALLEL UTILITY LINE EXCEPT WATER. A 10' SEPARATION BETWEEN PARALLEL SEWER AND WATER LINES IS REQUIRED.
  7. PARALLEL LINE (FLY-LINE) MINIMUM SIZE SHALL BE 8".

APPROVED BY: BILL SANDHU, CITY ENGINEER C59850	<b>SANITARY SEWER</b>	
REVISED: DATE:	SEWER PARALLEL ("FLY-LINE") CONNECTION	
REVISED: DATE:	ADOPTED BY CITY COUNCIL RESOLUTION NO. 2014-945	DETAIL NO. 508



DATE:	APPROVED
REVISIONS	DATE
NO	DESCRIPTIONS

**STANISLAUS COUNTY**  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358

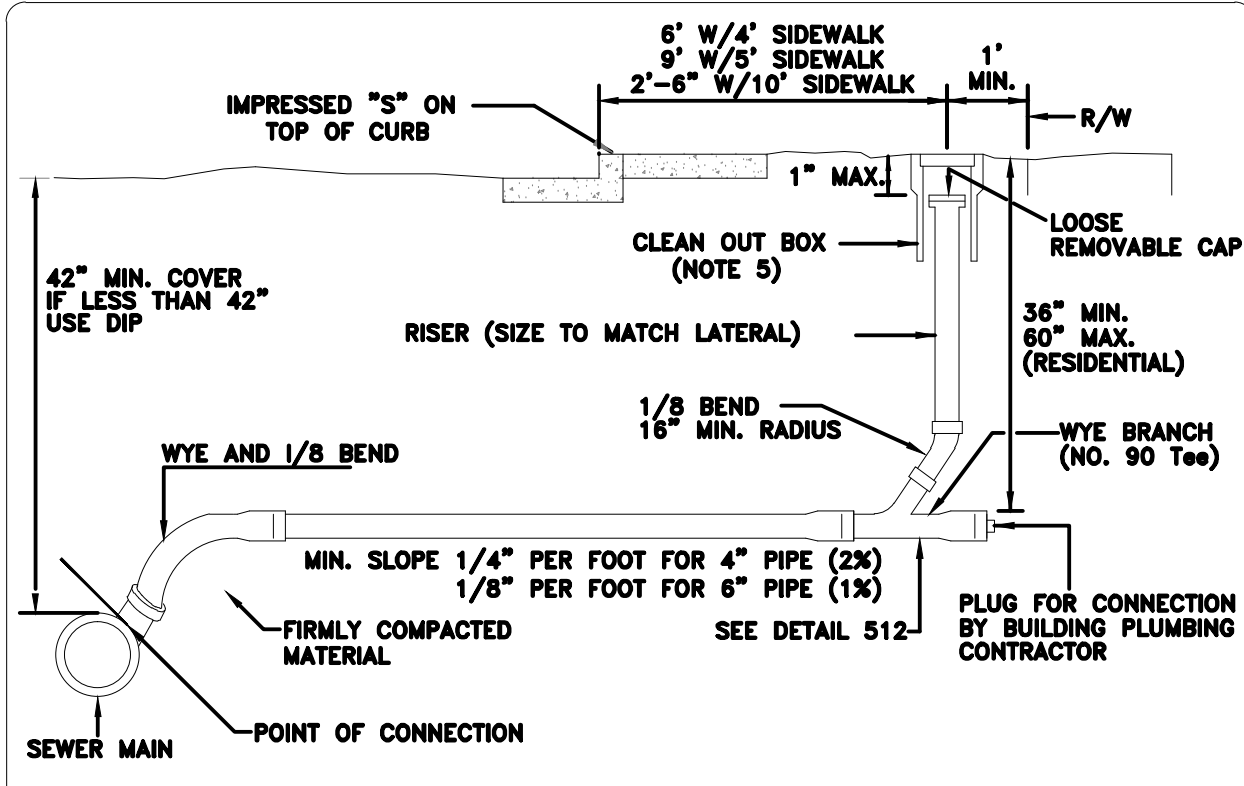


**DETAIL SHEET**  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO	UPPSWR01
DATE	06/07/2016
DR BY	PK&LC
CK BY	PK&LC
SCALE	VARIABLE

SHEET NUMBER  
**D1**  
OF 75 SHEETS

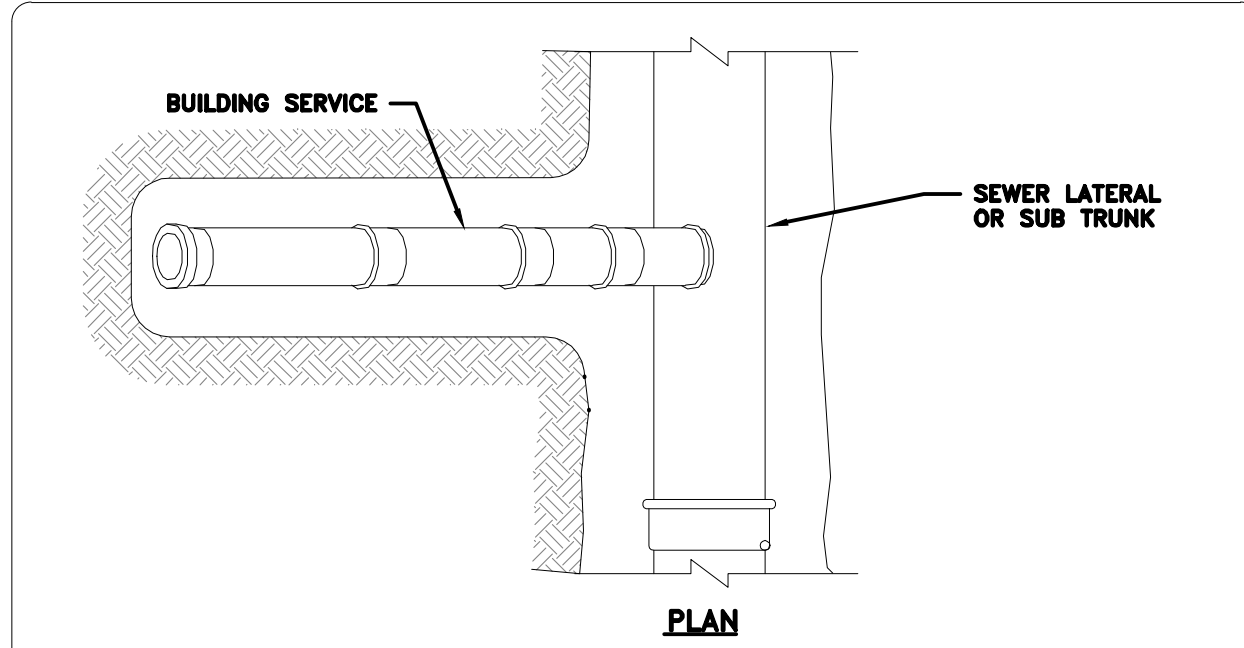
**PROFILE SCALE**  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL



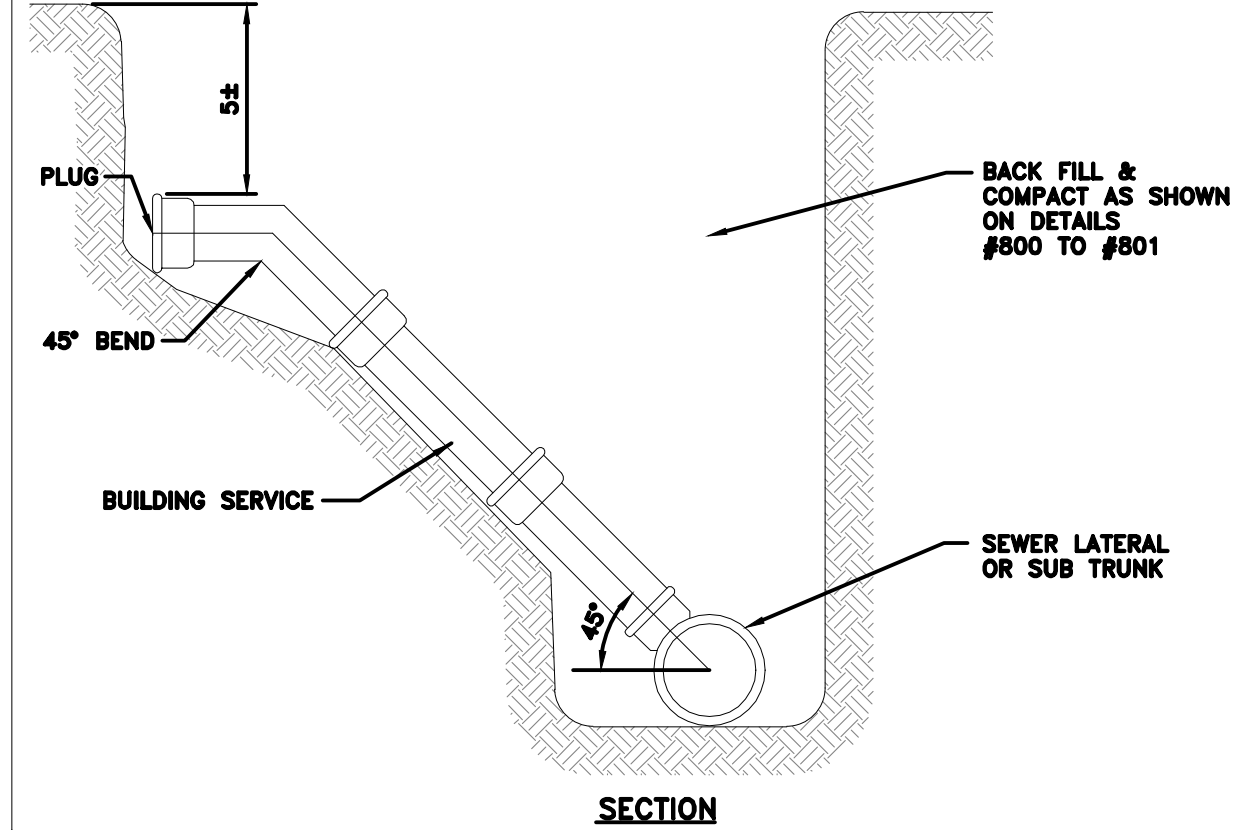
PROFILE

- NOTES:
- NO CLEANOUTS SHALL BE LOCATED IN DRIVEWAYS.
  - IF THE SIDEWALK IS SEPARATE FROM THE CURB, THE CLEANOUT RISER SHALL BE INSTALLED IN THE APPROXIMATE CENTER OF THE PLANTING STRIP.
  - HOUSE CONNECTION SHALL BE MADE UNDER THE SUPERVISION OF THE CITY INSPECTOR.
  - SEWER LATERAL SHALL BE CONSTRUCTED WITH A STRAIGHT GRADE AND ALIGNMENT FROM THE MAIN TO THE PROPERTY LINE UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
  - CLEANOUT BOX SHALL BE A CHRISTY FB, OR APPROVED EQUAL, WITH CAST IRON COVER MARKED "C.O.". PIPE SLOPE MAY BE INCREASED TO ACCOMMODATE DEEP SEWERS AND PROVIDE A MINIMUM 36" COVER AT RIGHT OF WAY.
  - SEWER LATERAL SHALL BE EXTRA STRENGTH VCP WITH COMPRESSION JOINTS, SDR26, OR DIP.
  - PROPERTY OWNER WILL BE RESPONSIBLE FOR MAINTAINING THE LATERAL FROM THE POINT OF CONNECTION AT THE MAIN TO THE HOUSE.
  - LATERAL SHALL BE INSPECTED BY CONTRACTOR'S TV; INSPECTION REQUEST TO CITY WITH 48 HOUR NOTICE.
  - THE HOUSE LATERAL MAY BE PLACED UNDER EXISTING CURB AND SIDEWALK BY DRILLING 8" (MAX. DIA.) TUNNEL AND PLACING PIPE WITH NEOPRENE BANDED JOINTS.
  - TO MARK THE SERVICE LOCATION TO A PROPERTY, AN IMPRESSED "S" SHALL BE STAMPED IN WET CONCRETE OR CHISELED IN EXISTING CONCRETE ON TOP OF CURB.

APPROVED BY: <b>BILL SANDHU, CITY ENGINEER</b> CS9650	<b>SANITARY SEWER</b>	
REVISOR: DATE:	<b>SEWER SERVICE</b>	
REVISOR: DATE:	ADOPTED BY CITY COUNCIL RESOLUTION NO. 2014-945	DETAIL NO. <b>510</b>

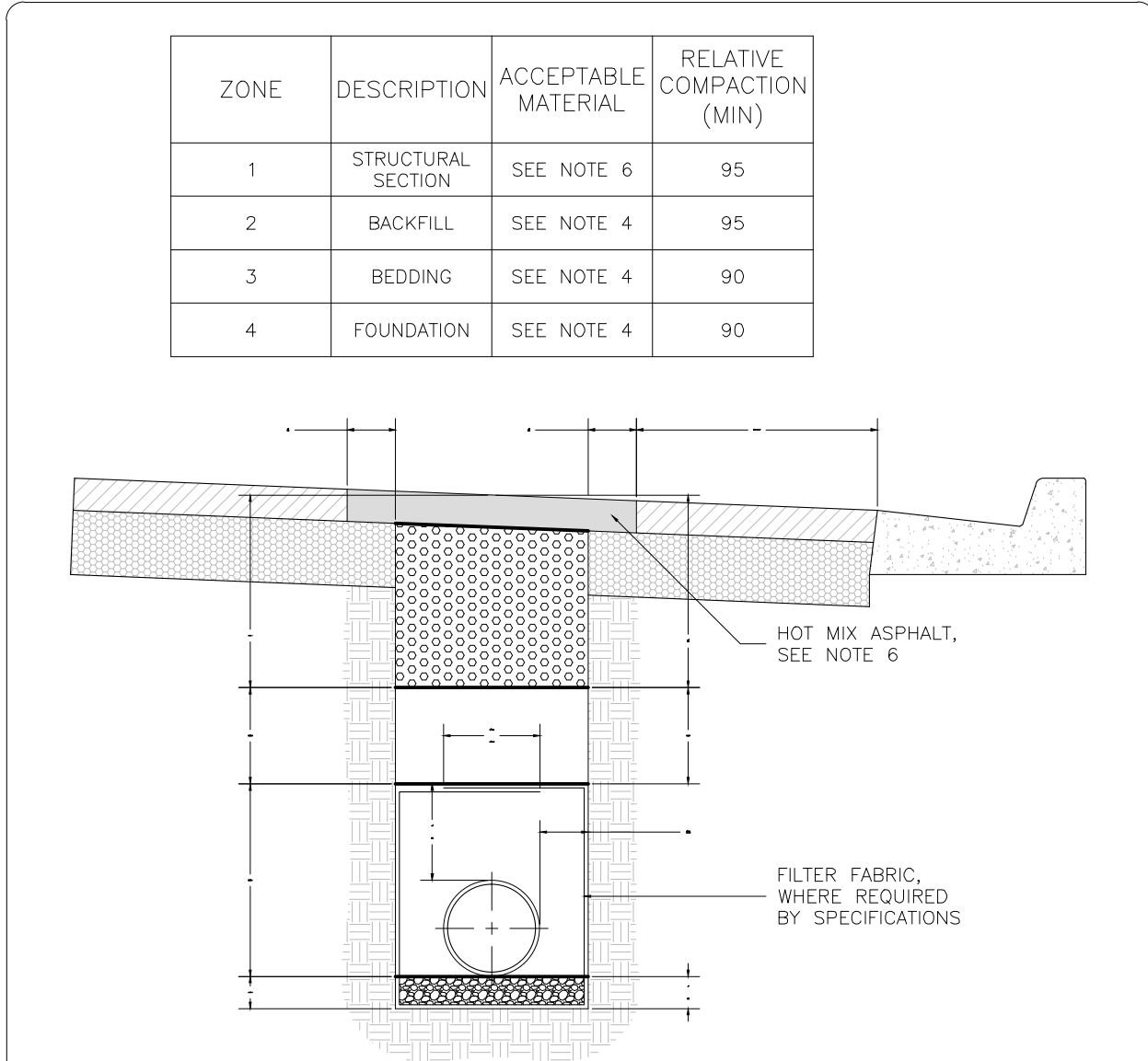


PLAN



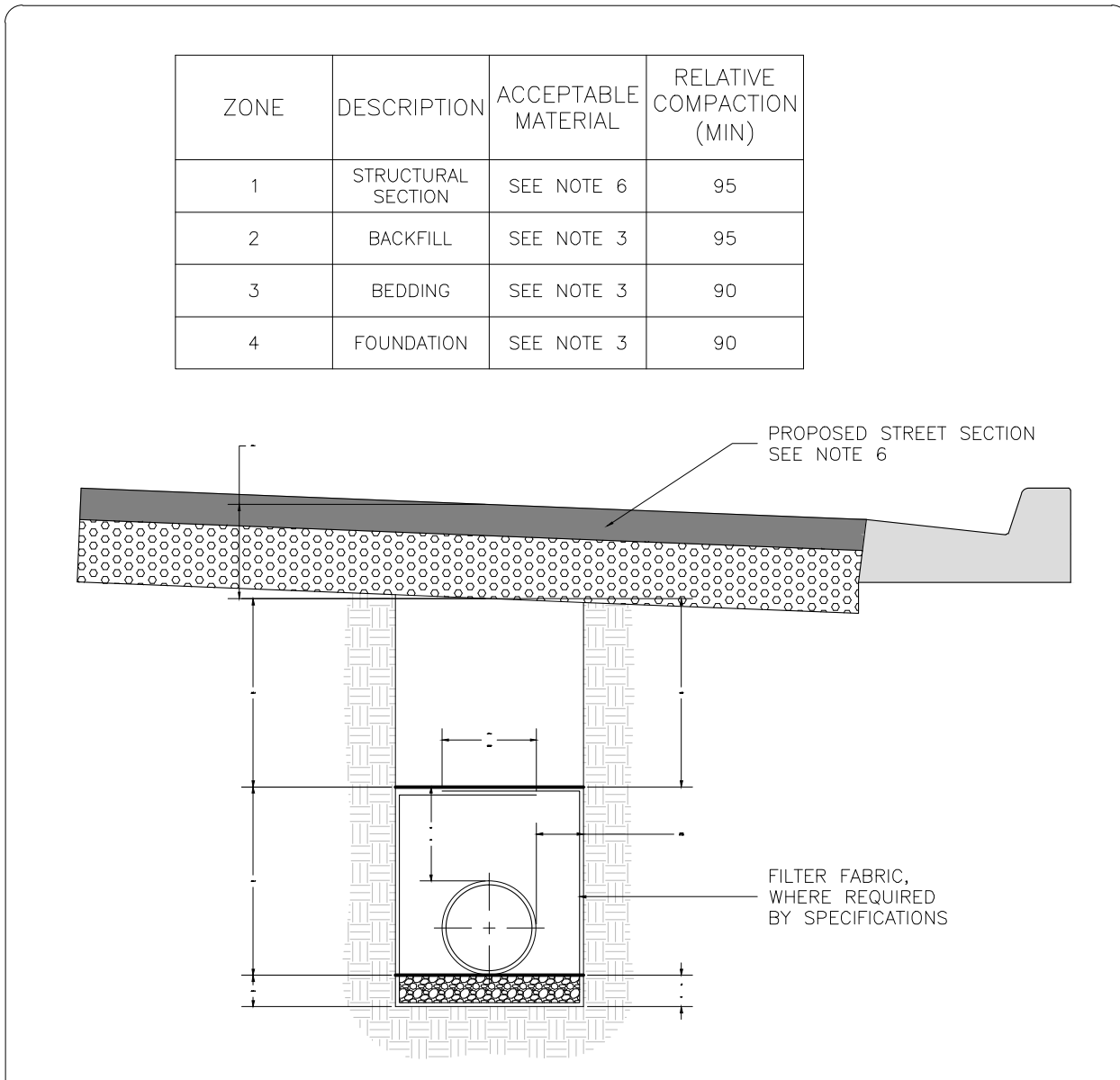
SECTION

APPROVED BY: <b>BILL SANDHU, CITY ENGINEER</b> CS9650	<b>SANITARY SEWER</b>	
REVISOR: DATE:	<b>SERVICE RISER</b>	
REVISOR: DATE:	ADOPTED BY CITY COUNCIL RESOLUTION NO. 2014-945	DETAIL NO. <b>511</b>



- NOTES:
- TRENCH SECTION SHALL BE BACKFILLED AND MECHANICALLY COMPACTED TO GRADE. CONTRACTOR SHALL FURNISH, INSTALL, COMPACT AND MAINTAIN 2" TEMPORARY PAVEMENT UNTIL PERMANENT PAVEMENT IS PLACED.
  - IF TRENCH IS WITHIN 36" OF EXISTING GUTTER, CONCRETE FLATWORK, OR EDGE OF LANE (EITHER EDGE), CONTRACTOR SHALL REMOVE AC AND PAVE TRENCH AND ADJACENT PIECE (FULL DEPTH HMA PER NOTE 6) AS ONE COMPLETE TRENCH RESTORATION.
  - PRIME COAT REQUIRED ABOVE AGGREGATE BASE.
  - MATERIAL FOR THE VARIOUS ZONES SHALL CONFORM TO THE GRADATION REQUIREMENTS DESCRIBED IN TABLE B.3, CHAPTER 8 OF THESE STANDARD SPECIFICATIONS.
  - FAVORABLE COMPACTION TESTS OF THE VARIOUS ZONES ARE REQUIRED FOR TRENCH ACCEPTANCE.
  - HOT MIX ASPHALT MINIMUM THICKNESS FOR TRENCH RESTORATION SHALL BE DETERMINED BY CHAPTER 3 OF THESE STANDARD SPECIFICATIONS. BASE MATERIAL SHALL BE CLASS 2 AGGREGATE BASE PER CHAPTER 8 OF THESE SPECIFICATIONS.

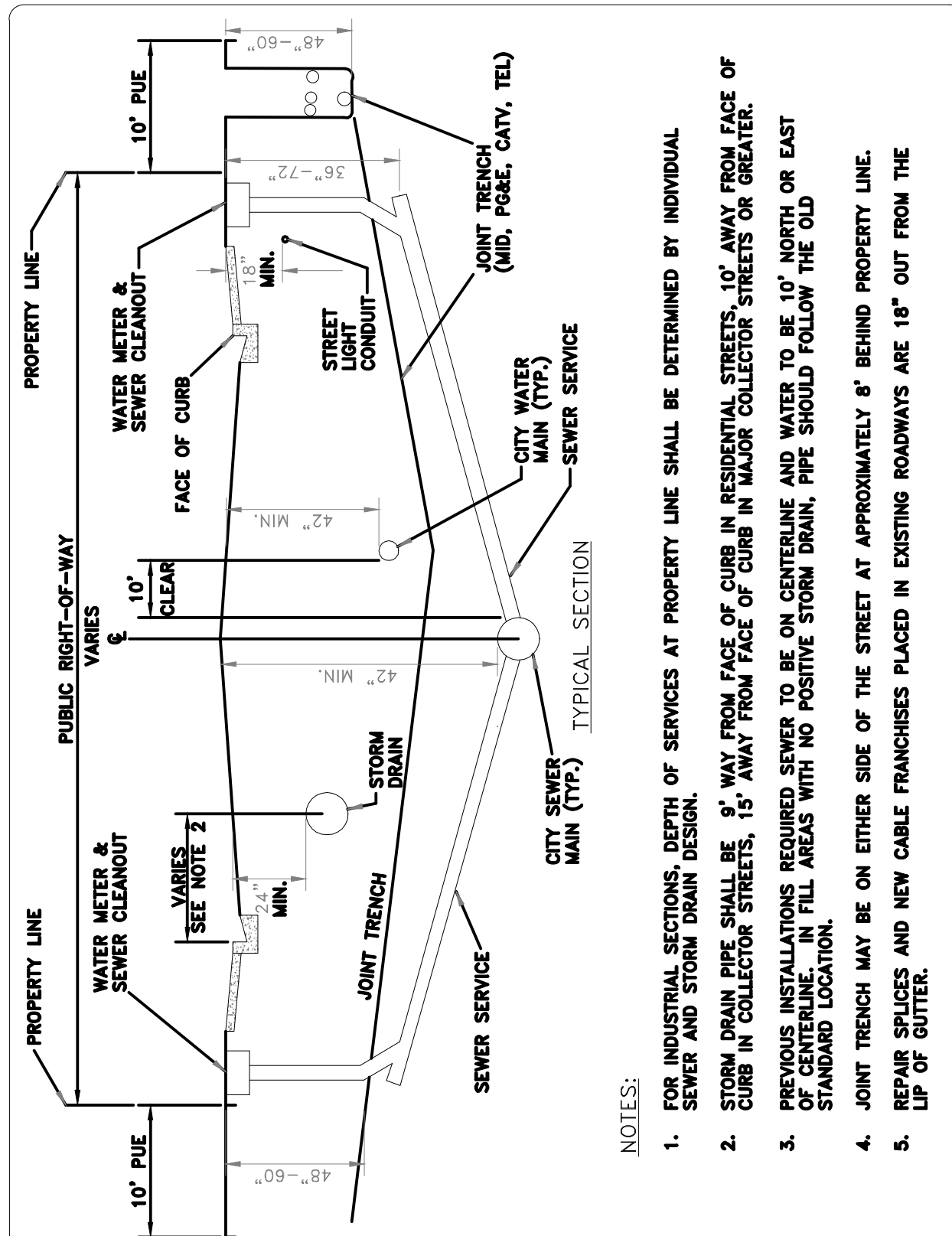
APPROVED BY: <b>BILL SANDHU, CITY ENGINEER</b> CS9650	<b>SANITARY SEWER</b>	
REVISOR: DATE:	<b>STREET BACKFILL EXISTING STREETS</b>	
REVISOR: DATE:	ADOPTED BY CITY COUNCIL RESOLUTION NO. 2014-945	DETAIL NO. <b>800</b>



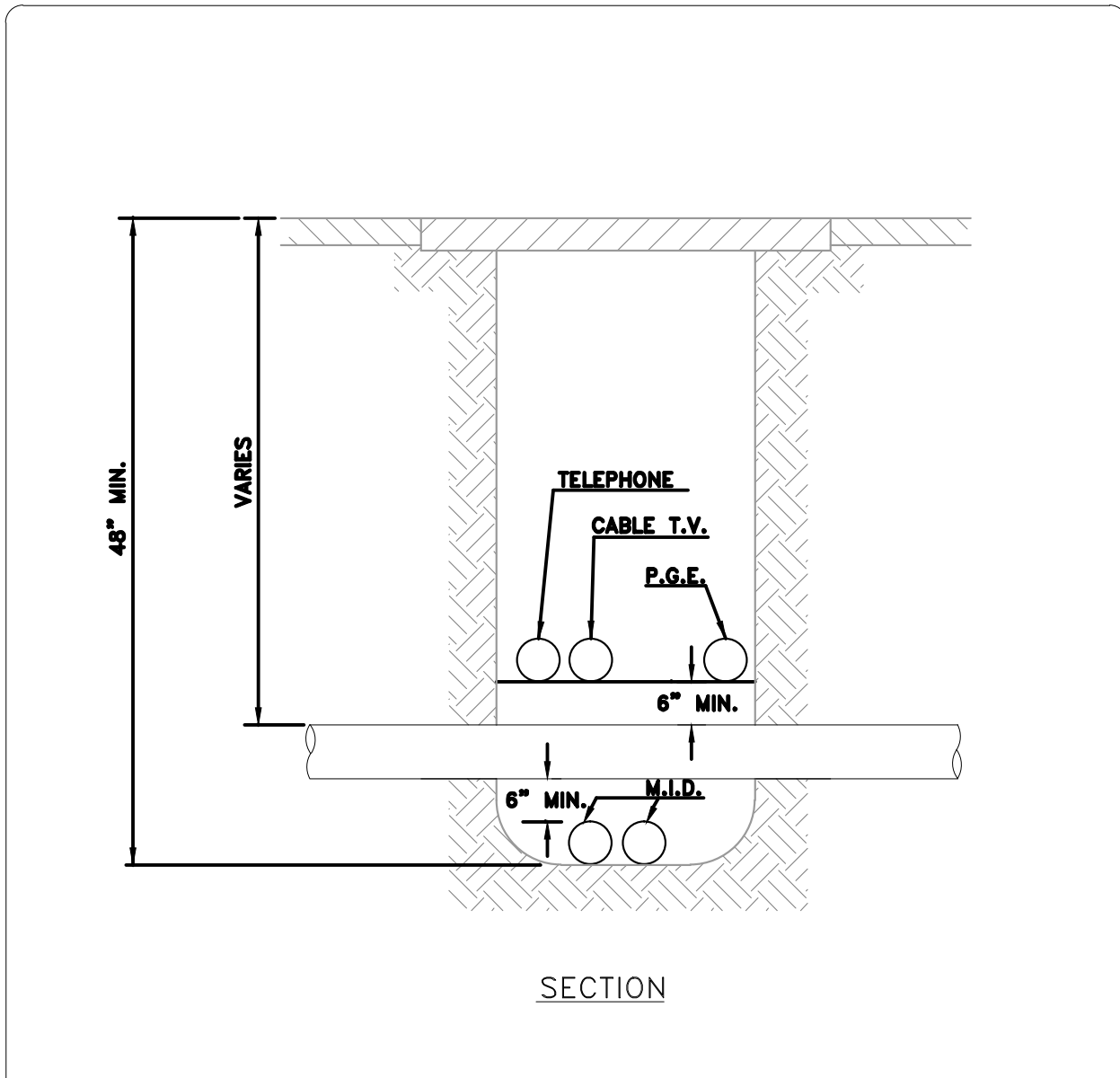
- NOTES:
- FOR INDUSTRIAL SECTIONS DEPTH OF SERVICES AT PROPERTY LINE SHALL BE DETERMINED BY INDIVIDUAL SEWER AND STORM DRAIN DESIGN.
  - STORM DRAIN PIPE SHALL BE 6" WAY FROM FACE OF CURB IN RESIDENTIAL STREETS, 10" AWAY FROM FACE OF CURB IN COLLECTOR STREETS, 15" AWAY FROM FACE OF CURB IN MAJOR COLLECTOR STREETS OR GREATER.
  - PERMANENT INSTALLATIONS REQUIRED. SEWERS TO BE ON CENTERLINE AND WATER TO BE 10" NORTH OR EAST OF CENTERLINE. ALL UTILITIES SHALL BE FULL DEPTH WITH NO POSITIVE STORM DRAIN. PIPE SHOULD FOLLOW THE OLD STANDARD LOCATION.
  - JOINT TRENCH MAY BE ON EITHER SIDE OF THE STREET AT APPROXIMATELY 8' BEHIND PROPERTY LINE.
  - REPAIR SPLICES AND NEW CABLE FRANCHISES PLACED IN EXISTING ROADWAYS ARE 18" OUT FROM THE LIP OF GUTTER.

- NOTES:
- TRENCH SECTION SHALL BE BACKFILLED AND MECHANICALLY COMPACTED TO GRADE.
  - PRIME COAT REQUIRED ABOVE AGGREGATE BASE.
  - MATERIAL FOR THE VARIOUS ZONES SHALL CONFORM TO THE GRADATION REQUIREMENTS DESCRIBED IN TABLE B.3, CHAPTER 8 OF THESE STANDARD SPECIFICATIONS.
  - FAVORABLE COMPACTION TESTS OF THE VARIOUS ZONES ARE REQUIRED FOR TRENCH ACCEPTANCE.
  - IN LANDSCAPED AREAS, ZONE 1 IS ELIMINATED AND ZONE 2 SHALL BE COMPACTED TO 85% RELATIVE COMPACTION FROM TOP OF ZONE 3 TO FINISH GRADE.
  - HOT MIX ASPHALT AND BASE MINIMUM THICKNESS SHALL BE DETERMINED BY CHAPTER 3 OF THESE STANDARD SPECIFICATIONS. BASE MATERIAL SHALL BE CLASS 2 AGGREGATE BASE PER CHAPTER 8 OF THESE SPECIFICATIONS.

APPROVED BY: <b>BILL SANDHU, CITY ENGINEER</b> CS9650	<b>UTILITIES</b>	
REVISOR: DATE:	<b>STREET BACKFILL UNDEVELOPED STREETS</b>	
REVISOR: DATE:	ADOPTED BY CITY COUNCIL RESOLUTION NO. 2014-945	DETAIL NO. <b>801</b>

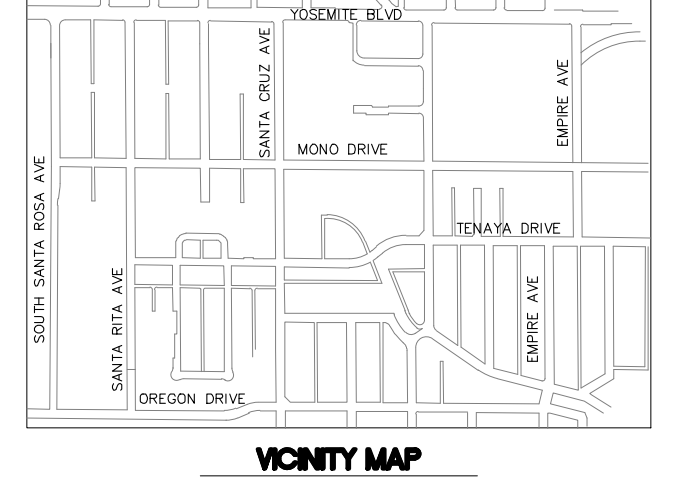


APPROVED BY: <b>BILL SANDHU, CITY ENGINEER</b> CS9650	<b>UTILITIES</b>	
REVISOR: DATE:	<b>STREET CROSS SECTION TYPICAL</b>	
REVISOR: DATE:	ADOPTED BY CITY COUNCIL RESOLUTION NO. 2014-945	DETAIL NO. <b>805</b>

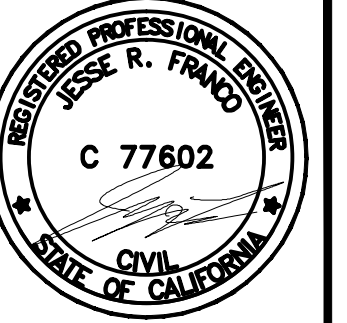


- NOTES:
- A SINGLE UTILITY MAY BE PLACED IN A 4" MINIMUM WIDTH TRENCH. SINGLE UTILITY TRENCH PARALLEL TO THE STREET SHALL BE NEXT TO THE LIP OF GUTTER, UNLESS APPROVED OTHERWISE.
  - FOR BACKFILL AND COMPACTION REQUIREMENTS SEE DETAILS #800-#803.

APPROVED BY: <b>BILL SANDHU, CITY ENGINEER</b> CS9650	<b>UTILITIES</b>	
REVISOR: DATE:	<b>TRENCHING IN THE STREET</b>	
REVISOR: DATE:	ADOPTED BY CITY COUNCIL RESOLUTION NO. 2014-945	DETAIL NO. <b>806</b>

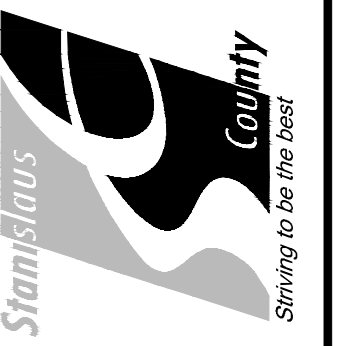


VICINITY MAP



NO.	DATE	APPROVED
REVISIONS	DATE	APPROVED
DESCRIPTIONS		

STANISLAUS COUNTY  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING AND OPERATIONS DIVISION  
1716 MORGAN ROAD - MODESTO, CA 95358



DETAIL SHEET  
AIRPORT NEIGHBORHOOD  
SEWER IMPROVEMENTS  
MODESTO, CALIFORNIA

JOB NO	UPPSWR01
DATE	06/07/2016
DR BY	PK&LC
CK BY	PK&LC
SCALE	VARIES

SHEET NUMBER  
**D2**  
OF 75 SHEETS

PROFILE SCALE  
1" = 20' HORIZONTAL  
1" = 2' VERTICAL