

10/21/96 10:18:32 VPL
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WESTERN RIVERSIDE COUNTY REGIONAL WASTEWATER AUTHORITY

MEMBER AGENCIES

SANTA ANA WATERSHED PROJECT AUTHORITY (SAWPA)
HOME GARDENS SANITARY DISTRICT (HGSD)
JURUPA COMMUNITY SERVICES DISTRICT (JCSD)
CITY OF NORCO (NORCO)
WESTERN MUNICIPAL WATER DISTRICT OF RIVERSIDE COUNTY (WMWD)

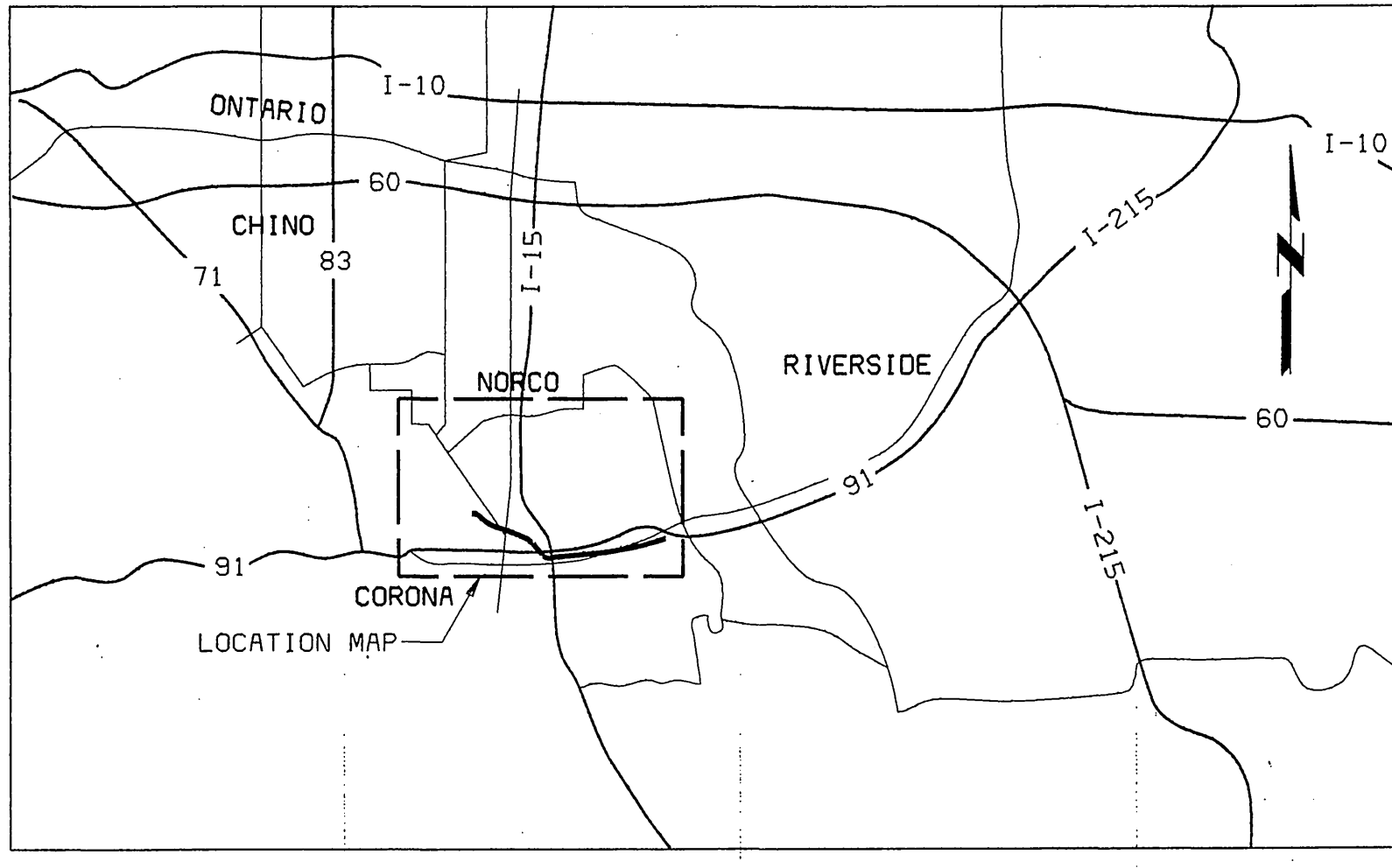
WESTERN RIVERSIDE COUNTY REGIONAL WASTEWATER SYSTEM SOUTH REGIONAL COLLECTION SYSTEM CONTRACT NO. 2 NONRECLAIMABLE WASTEWATER SEWER

1996

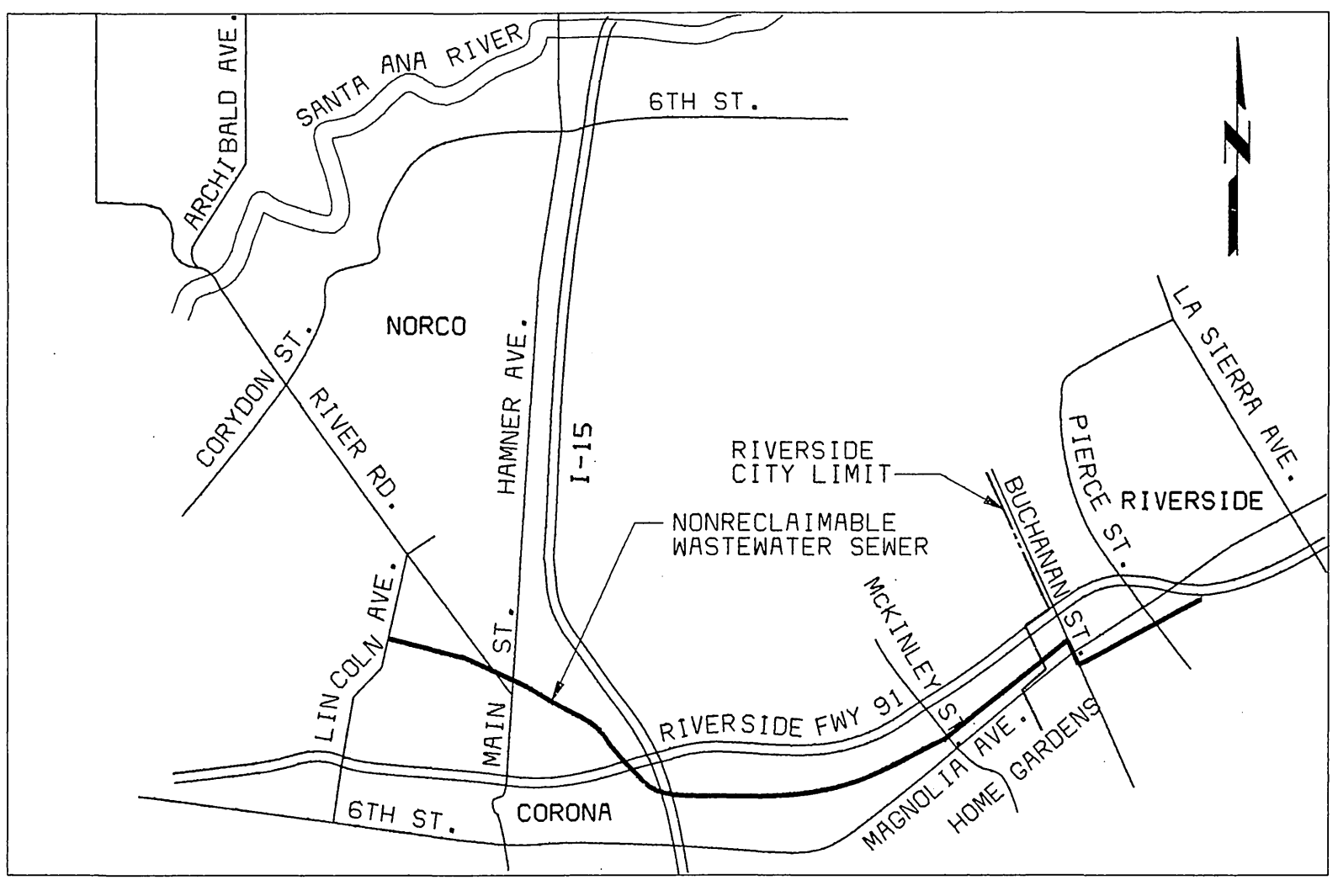
PREPARED BY



Copy of AS BID drawings except
Sheets C-29 & C-30 reflect
As-BUILT conditions



VICINITY MAP
NTS



LOCATION MAP
NTS

INDEXED 4-23-99 4H

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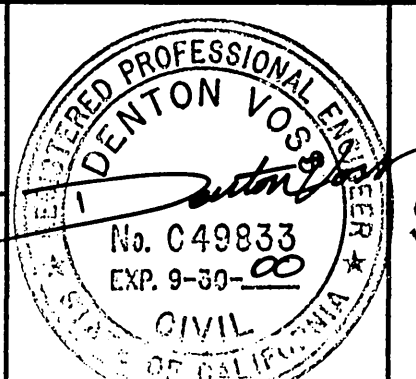
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CHK	APP

DESIGNED: JTG
 DETAILED: CND
 CHECKED: GMC
 APPROVED: DJV
 DATE: 6-26-96



PROJECT NO.
23068
 SCALE=
NO SCALE

WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 TITLE SHEET



G-1
 S-1711
 SHEET
 1 OF 55

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THE CONTRACTOR SHALL NOTIFY THE FOLLOWING ENTITIES PRIOR TO BEGINNING CONSTRUCTION THAT WILL AFFECT THEIR FACILITIES OR PROPERTY.

ENTITY	CONTACT PERSON	TELEPHONE
CITY OF CORONA		
PUBLIC UTILITIES	DON WILLIAMS	(909) 736-2232
PUBLIC WORKS	JOE PALENCIA	(909) 736-2264
CITY OF RIVERSIDE		
PUBLIC WORKS	BILL KRAIOSKY	(909) 782-5341
PARKS & RECREATION	STREET TREE INSPECTOR	(909) 351-6126
RIVERSIDE COUNTY FLOOD CONTROL	VICTOR DeCASTRO	(909) 275-1266
CALTRANS		
PACIFIC BELL	MAX BLACKWELL	(909) 359-2180
SOUTHERN CALIFORNIA EDISON	JIM HAYS	(909) 930-8435
SOUTHERN CALIFORNIA GAS	DON BOWEN	(909) 335-7607
ARCO PIPELINE	DAVE ANDERSON	(310) 428-9454
UNDERGROUND SERVICE ALERT		(800) 422-4133
CITY OF RIVERSIDE P.U. WATER DEPT.	INSPECTION	(909) 782-5449

GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY AND/OR PERMANENT RELOCATION OF ALL OBSTRUCTIONS TO THE CONSTRUCTION OF SEWER LINE, INCLUDING UTILITIES. ALL COSTS ASSOCIATED WITH TEMPORARY RELOCATIONS REQUIRED BECAUSE OF THE CONFLICTS WITH THE WORK CONTAINED HEREIN SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION OF CONTRACTOR AND SHALL BE INCLUDED IN THE UNIT AND LUMP SUM PRICES BID.
- THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT FROM DAMAGE ANY UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (1-800-422-4133) TWO FULL WORKING DAYS (48 HOURS MINIMUM) IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY COMPANIES AND MUNICIPAL UTILITY DEPARTMENTS AT LEAST TWO FULL WORKING DAYS (48 HOURS MINIMUM) PRIOR TO BEGINNING ANY CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES.
- REPLACEMENT OF PAVEMENT, CURBS, GUTTERS AND SIDEWALKS SHALL BE IN ACCORDANCE WITH THE GOVERNING MUNICIPALITY'S STANDARD PLANS.
- THE CONTRACTOR IS REQUIRED TO PROVIDE TRAFFIC CONTROL IN CONFORMANCE WITH THE TRAFFIC CONTROL PLANS AND THE MOST RECENT EDITION OF THE WORK AREA TRAFFIC CONTROL HANDBOOK (W.A.T.C.H.).
- THE LOCATION OF EXISTING UTILITIES HAVE BEEN NOTED ON THE DRAWINGS TO THE EXTENT THAT INFORMATION WAS AVAILABLE FROM EXISTING UTILITY PLATS AND DRAWINGS. UTILITIES THAT WERE LOCATED BY POT HOLING DURING DESIGN ARE DESIGNATED AS "POT HOLED" ON THE PROFILES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND ELEVATION OF ALL UTILITIES AFFECTING ANY REACH OF PIPELINE AT LEAST 1000 FEET IN ADVANCE OF THE TRENCH EXCAVATION. SERVICE LATERALS AND CONNECTIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND PROTECT ALL LATERALS AND CONNECTIONS ENCOUNTERED DURING THE PROGRESS OF THE WORK.
- ALL PAVEMENT MARKINGS, SIGNS, BARRICADES, SIGNAL SYSTEMS AND ALL OTHER TRAFFIC CONTROL DEVICES WHICH ARE REMOVED OR DISTURBED AS A RESULT OF THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE IN COMPLIANCE WITH THE GOVERNING MUNICIPALITY'S STANDARDS AND REQUIREMENTS.
- A MAJOR PORTION OF THIS PROJECT PARALLELS THE TEMESCAL CREEK, ARLINGTON, AND LA SIERRA CHANNELS. THE CONTRACTOR SHALL TAKE SPECIAL NOTE OF THE EXISTING IMPROVEMENTS WHICH MAY BE NECESSARY TO REMOVE AND REPLACE, INCLUDING BUT NOT LIMITED TO PAVING, FENCING, CABLE BARRIERS, REFLECTOR POSTS, AND METAL BEAM RAILINGS. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING NEXT TO THE CHANNEL WALL IN THE AREA OF CONSTRUCTION WHERE THE EXISTING FENCE AND CABLE BARRIER HAVE BEEN REMOVED AND SHALL ALSO PROVIDE SUITABLE TEMPORARY TRAFFIC BARRIER AT THE LOCATION OF THE EXISTING CABLE BARRIER. FENCE AND CABLE BARRIER SHALL BE REPLACED AS CONSTRUCTION PROCEEDS. THE CONTRACTOR SHALL ACCEPT TOTAL RESPONSIBILITY FOR DESIGN AND CONSTRUCTION OF TEMPORARY FENCE AND TRAFFIC BARRIERS AND ACCEPT TOTAL LIABILITY FOR ANY DAMAGES OR CLAIMS AS A RESULT OF INADEQUATE TEMPORARY FENCING AND TRAFFIC BARRIER AND SHALL HOLD THE OWNER, ENGINEER, CITY OF CORONA, CITY OF RIVERSIDE, AND THE RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT (RCFC&WCD) HARMLESS FROM SUCH DAMAGES OR CLAIMS.
- THE CONTRACTOR IS REFERRED TO RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT DRAWINGS FOR DETAILS OF THE EXISTING CHANNEL CONSTRUCTION. CONTRACTOR SHALL OBTAIN THE FOLLOWING DRAWING SETS PRIOR TO THE START OF CONSTRUCTION.
 TEMESCAL CREEK CHANNEL: PROJECT 2-0-050, DRAWING 2-186
 ARLINGTON CHANNEL: PROJECT 1-0-020, DRAWINGS 1-294 AND 1-391
 LA SIERRA CHANNEL: DRAWING 1-151
- PORTIONS OF THE LINE ARE LOCATED IN GRANITE. CONTRACTOR SHALL REFER TO THE SOILS REPORT AS A GUIDELINE ONLY. BLASTING WILL NOT BE PERMITTED.
- PROJECT SURVEY CONTROL:
 - HORIZONTAL DATA IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83) AS DEFINED BY THE NATIONAL GEODETIC SURVEY'S (NGS) PUBLISHED POSITION ON STATIONS: "WEIRICK 1975" AND "TARKIO 1975."
 - ALL COORDINATES ARE CALIFORNIA COORDINATE SYSTEM ZONE 6 AND ARE IN U.S. SURVEY FEET.
 - THE COORDINATE VALUES LISTED HEREIN ARE GRID VALUES. TO OBTAIN GROUND DISTANCES BETWEEN POINTS, DIVIDE THE GRID DISTANCE BY THE COMBINATION FACTOR AS FOLLOWS:
 - BETWEEN DESALTER AND INTERSECTION OF SAMPSON AVE. AND RICH CT. 0.999968368
 - BETWEEN INTERSECTION OF SAMPSON AVE. AND RICH CT. AND INTERSECTION OF LINCOLN AVE. AND TEMESCAL CREEK CHANNEL 0.999971875
 - THE FIELD CONTROL SURVEY AND SETTING OF TEMPORARY BENCHMARKS WAS PERFORMED DURING FEBRUARY 1993.
 - AERIAL PHOTOGRAPHS SHOWN HEREIN WERE TAKEN DURING MARCH 1993.
 - ALL STATIONS ARE GRID DISTANCE AND SHOULD BE MULTIPLIED BY THE COMBINATION FACTORS LISTED ABOVE TO EQUAL GROUND DISTANCE.
 - STATIONING IS ON CENTERLINE OF PIPE.
- THE NWS SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES SEPARATION STANDARDS AS SHOWN IN DETAILS E AND F ON SHEET C-38.
- CONTRACTOR SHALL PROTECT ALL STREET LIGHTS IN PLACE.
- DUE TO THE STRUCTURAL QUALITIES OF ASBESTOS CONCRETE PIPE (ACP), ALL ACP WITHIN THE CITY OF CORONA THAT IS EXPOSED OR UNDERMINED DURING THE PROPOSED CONSTRUCTION SHALL BE REPLACED WITH EITHER DUCTILE IRON PIPE OR PVC PIPE. ENGINEERING DETAILS FOR REPLACEMENT SHALL BE SUBMITTED TO THE CITY ENGINEER OF CORONA FOR APPROVAL PRIOR TO ANY RECONSTRUCTION OF CORONA'S FACILITIES. AT THE DISCRETION OF THE CITY ENGINEER, DISRUPTIONS TO SERVICE MAY BE LIMITED TO NIGHT TIME SHUT DOWNS IN SOME AREAS.
- THE CONTRACTOR SHALL SUBMIT TO THE CITY OF CORONA A CERTIFICATE OF INSURANCE WITH A MINIMUM LIABILITY OF \$1,000,000 NAMING THE CITY OF CORONA AS AN ADDITIONAL INSURED.
- NO STREET CONSTRUCTION OF STREET CLOSURES WILL BE PERMITTED FOR STREETS, WHICH ARE CLASSIFIED BY THE CITY OF CORONA AS AFFECTING COMMERCIAL AREAS, BETWEEN THANKSGIVING DAY AND NEW YEARS DAY.
- WITHIN CITY OF CORONA STREETS THE CONTRACTOR SHALL PLACE PIPE EMBEDMENT, BACKFILL ALL TRENCHES AND MAKE ROADWAY REPAIRS IN ACCORDANCE WITH CORONA STANDARD PLAN 108-1. ALL OTHER PIPE EMBEDMENT AND TRENCH BACKFILL SHALL CONFORM TO SECTION 02200 OF THE SPECIFICATIONS.
- LENGTHS OF RESTRAINED JOINT PIPING ON EACH SIDE OF FITTINGS SHALL CONFORM TO DETAIL B ON SHEET C-39. LOCATIONS OF RESTRAINED JOINT PIPING ARE CALLED OUT ON THE PLAN & PROFILE SHEETS.

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DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED	JTG
DETAILED	CND/SSH
CHECKED	GMC
APPROVED	DJV
DATE	6-20-96



PROJECT NO.	23068
SCALE	NO SCALE

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

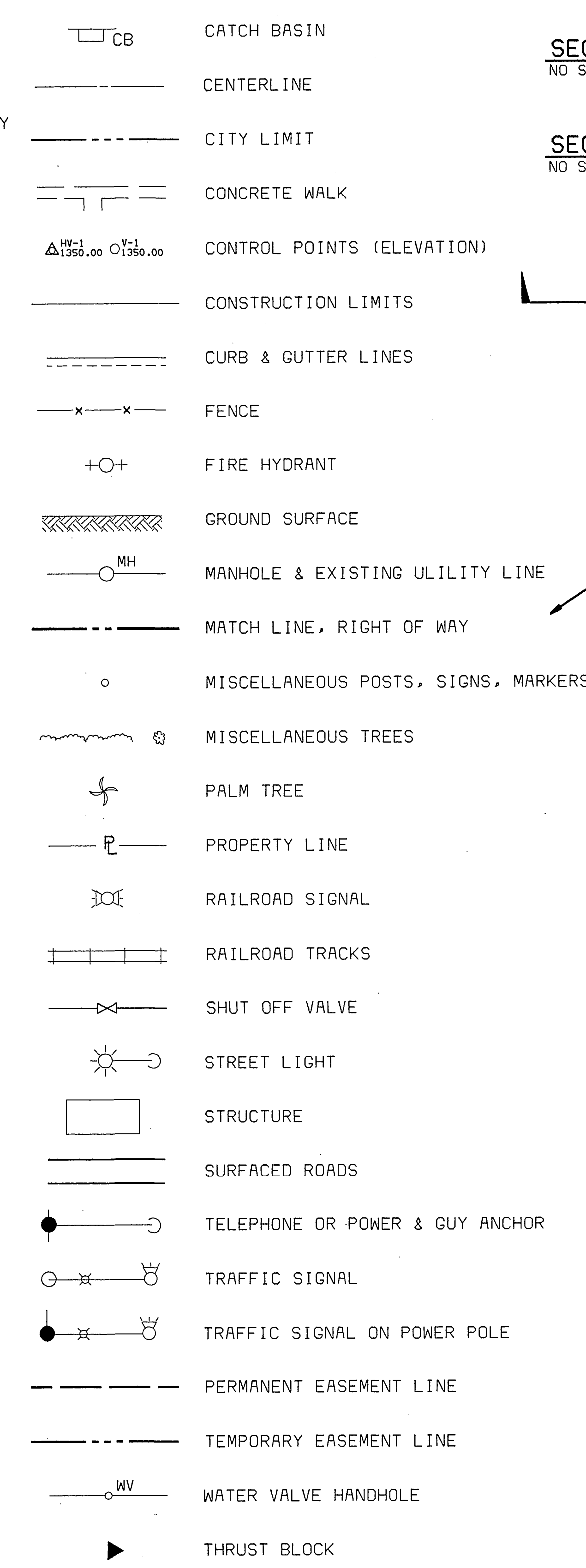
APPROVED BY	DATE	BY	APPROVED BY
PRINCIPAL ENGINEER			PUBLIC WORKS DIRECTOR
PARK DEPARTMENT			
TRAFFIC DIVISION			
CHIEF P. U. ENGINEER			
PUBLIC UTIL. ELBCC			

G-2
5-1711
SHEET
2 OF

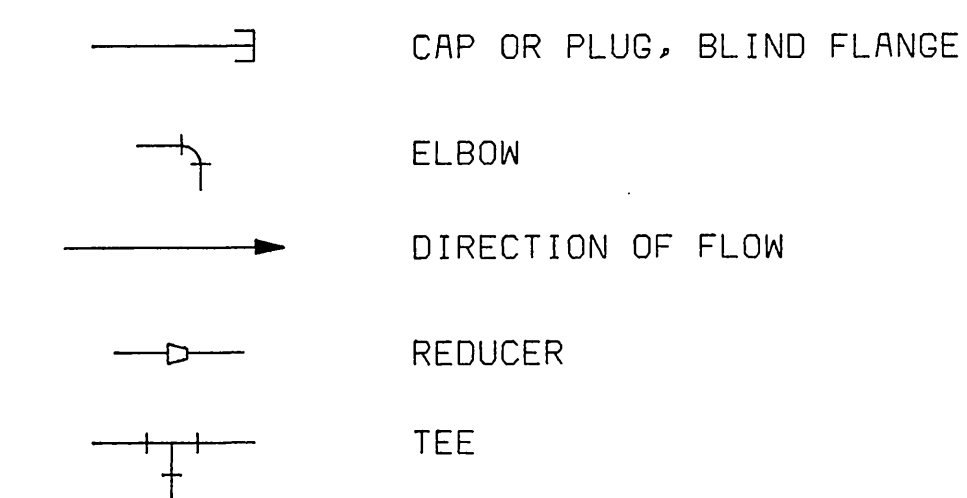
ABBREVIATIONS

A	AB ANCHOR BOLT	E EAST, EASTERLY, ELECTRICAL	MAN MANUAL	S SOUTH, SEWER
	ABAND ABANDONED	EA EACH	MAX MAXIMUM	SARI SANTA ANA REGIONAL INTERCEPTOR SEWER
	AC ASPHALT CONCRETE	EC END OF CURVE	MECH MECHANICAL	SAWPA SANTA ANA WATERSHED PROJECT AUTHORITY
	ACP ASBESTOS CONCRETE PIPE	EJ EXPANSION JOINT	MFR MANUFACTURER	SD STORM DRAIN
	AD AREA DRAIN	EL ELEVATION, ELBOW	MGD MILLION GALLON PER DAY	SEC SECOND
	ADJ ADJACENT, ADJUSTABLE	EL ELECTRIC, ELECTRICAL	MH MANHOLE	SECT SECTION
	AH AHEAD	ELEV ELEVATION	MIN MINIMUM	SFM SEWER FORCE MAIN
	ALT ALTERNATIVE, ALTERNATE	E'LY EASTERLY	MISC MISCELLANEOUS	SH, SHT SHEET
	ALUM ALUMINUM	EMER EMERGENCY	MJ MECHANICAL JOINT	SIM SIMILAR
	APPROX APPROXIMATE	EQUIP EQUIPMENT	ML MATCH LINE	S'LY SOUTHERLY
	ARCH ARCHITECTURAL	EQ EQUAL	MSL MEAN SEA LEVEL	SMH SEWER MANHOLE
	ASPH ASPHALT	EX, EXIST EXISTING	MTD MOUNTED	SO SOUTHERN
	ASSY ASSEMBLY	EXT EXTENSION	MTL MATERIAL	SPA SPACING, SPACES
	ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS			SPEC SPECIFICATION
	AUTO AUTOMATIC			SQ SQUARE
	AV, AVE AVENUE	F	N	SQFM SOUTH REGIONAL FORCE MAIN
	AWWA AMERICAN WATER WORKS ASSOCIATION	FAB FABRICATED	NA NOT APPLICABLE	SS STAINLESS STEEL
	& AND	FCA FLANGED COUPLING ADAPTER	N'LY NORTHERLY	ST STREET
	@ AT	FD FLOOR DRAIN	NO, OR# NUMBER(S)	STA STATION
		FH FIRE HYDRANT	NOM NOMINAL	STD STANDARD
	B	FIG FIGURE	NTS NOT TO SCALE	STL STEEL
	BC BEGINNING OF CURVE	FIN FINISH	NWS NONRECLAIMABLE WASTEWATER SEWER	STR STRUCTURE, STRUCTURAL SYSTEM
	BD BOARD	FL FLOOR, FLOW LINE		SYS
	BDRY BOUNDARY	FLEX FLEXIBLE	O	T
	BF BLIND FLANGE	FLG FLANGED	OD OUTSIDE DIAMETER	T TANGENT, TELEPHONE
	BFV BUTTERFLY VALVE	FT FOOT, FEET	OHL OVERHEAD LINE(S)	TBM TEMPORARY BENCH MARK
	BK BACK	FTG FOOTING	OPNG OPENING	TC TOP OF CURB
	BLDG BUILDING	FWY FREEWAY	OPP OPPOSITE	TEL TELEPHONE
	BLK BLOCK			T E/L TEMPORARY EASEMENT LINE
	BLVD BOULEVARD	G	P	TEMP TEMPORARY, TEMPERATURE
	BM BENCH MARK	GAS GAS	PBM PERMANENT BENCH MARK	THK THICK
	BO BLOW-OFF	GAL GALLON	PC POINT OF CURVATURE	TOC TOP OF CONCRETE
	BOT BOTTOM	GALV GALVANIZED	PCCP PRESTRESSED CONCRETE CYLINDER PIPE	TOD TOP OF DUCT
		GLV GLOBE VALVE	PE PLAIN END	TOP TOP OF PIPE
	C	GPM GALLONS PER MINUTE	P E/L PERMANENT EASEMENT LINE	TRANS TRANSITION
	C COVER, CURB DISTANCE	GR GRADE	PG PRESSURE GAGE	TP TYPE
	CALIF CALIFORNIA	GV GATE VALVE	PI POINT OF INTERSECTION	TS TRAFFIC SIGNAL CONDUIT
	CATV TELEVISION CABLE		PL PLATE	TYP TYPICAL
	CB CATCH BASIN	H	PR PRESSURE RELEASE (POTABLE WATER)	U
	C TO C CENTER TO CENTER	HB HOSE BIBB	PROP PROPOSED	UG UNDER GROUND
	CF CURB FACE	HD HEAD	PS PIPE SUPPORT	
	C&G CURB & GUTTER	HOG HOT DIP GALVANIZED (STEEL)	PSI POUNDS PER SQUARE INCH	V
	CHKD CHECKERED	HORIZ HORIZONTAL	PSF POUNDS PER SQUARE FOOT	V VERTICAL TARGET, VOLUME
	CI CAST IRON	HP HORSEPOWER, HIGH POINT	PT POINT, POINT OF TANGENCY	VC VERTICAL CURVE
	CJ CONSTRUCTION JOINT	HR HANDRAIL	PVC POLYVINYL CHLORIDE PIPE	VENT VENTILATION
	CJT CONTROL JOINT	HT HEIGHT	PVMT PAVEMENT	VCP VITRIFIED CLAY PIPE
	CLR CLEAR, CLEARANCE	HV HOSE VALVE,	PW POTABLE WATER	VERT VERTICAL
	CMP CORRUGATED METAL PIPE	HWY HIGHWAY	R	W
	COL COLUMN		R RADIUS, RISER	W WEST, WIDE, WIDTH, WATER
	CONC CONCRETE	I	RC REINFORCED CONCRETE	W/ WITH
	CONN CONNECT, CONNECTION	ID INSIDE DIAMETER	RCB REINFORCED CONCRETE BOX	W/O WITHOUT
	CONSTR CONSTRUCTION	IN INCHES	RCFCWCD RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT	W'LY WESTERLY
	CONT CONTINUATION, CONTROL	INCL INCLUDING		WRCRWA WESTERN RIVERSIDE COUNTY REGIONAL WASTEWATER AUTHORITY
	COR CITY OF RIVERSIDE	INV INVERT		WS WATERSTOP, WATER SURFACE
	CPLG COUPLING			WT WEIGHT
	CV CHECK VALVE	J		X
	CY CUBIC YARD	JS JUNCTION STRUCTURE	RCP REINFORCED CONCRETE PIPE	BY, TIMES
		JT JOINT	RD ROAD	Y
	D		RED REDUCER, REDUCING	YARD
	DB DIRECT BURIED	L	REF REFERENCE	
	DBL DOUBLE	LAB LABORATORY	REINF REINFORCING	
	DEPT DEPARTMENT	LB POUND	REQD REQUIRED	
	DI DUCTILE IRON	LC LIMIT OF CONSTRUCTION	REV REVISION, REVISED	
	DIA, D DIAMETER	LEV LEVEL	RJ RESTRAINED JOINT	
	DIAG DIAGONAL	LF LINEAL FOOT (FEET)	RT RIGHT	
	DIM DIMENSION	LG LEG	R/W RIGHT OF WAY	
	DIP DUCTILE IRON PIPE	LH LEFT HAND		
	DWG DRAWING	LOC LOCATION		
		LP LOW POINT		
		LT LEFT		

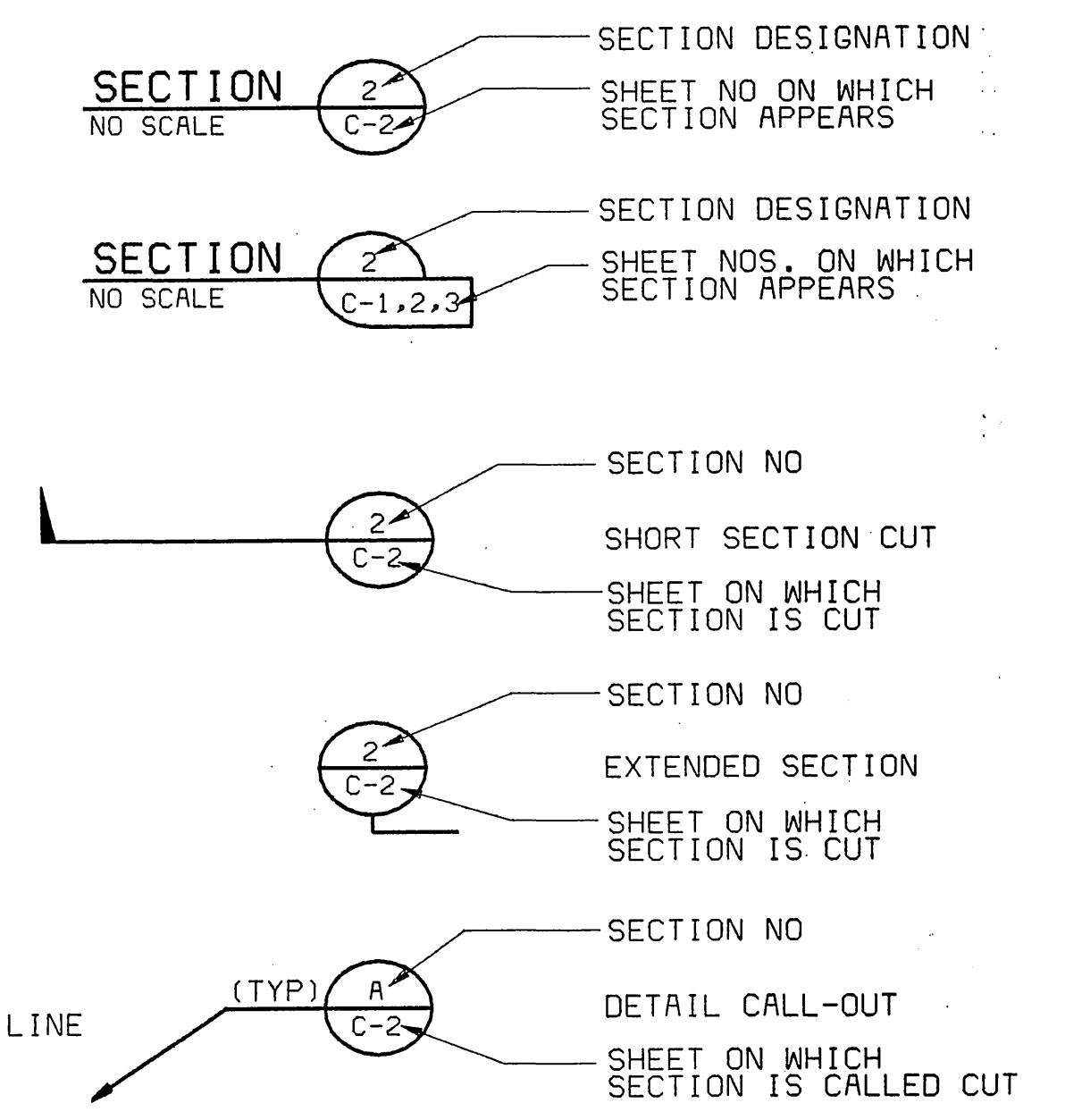
GENERAL



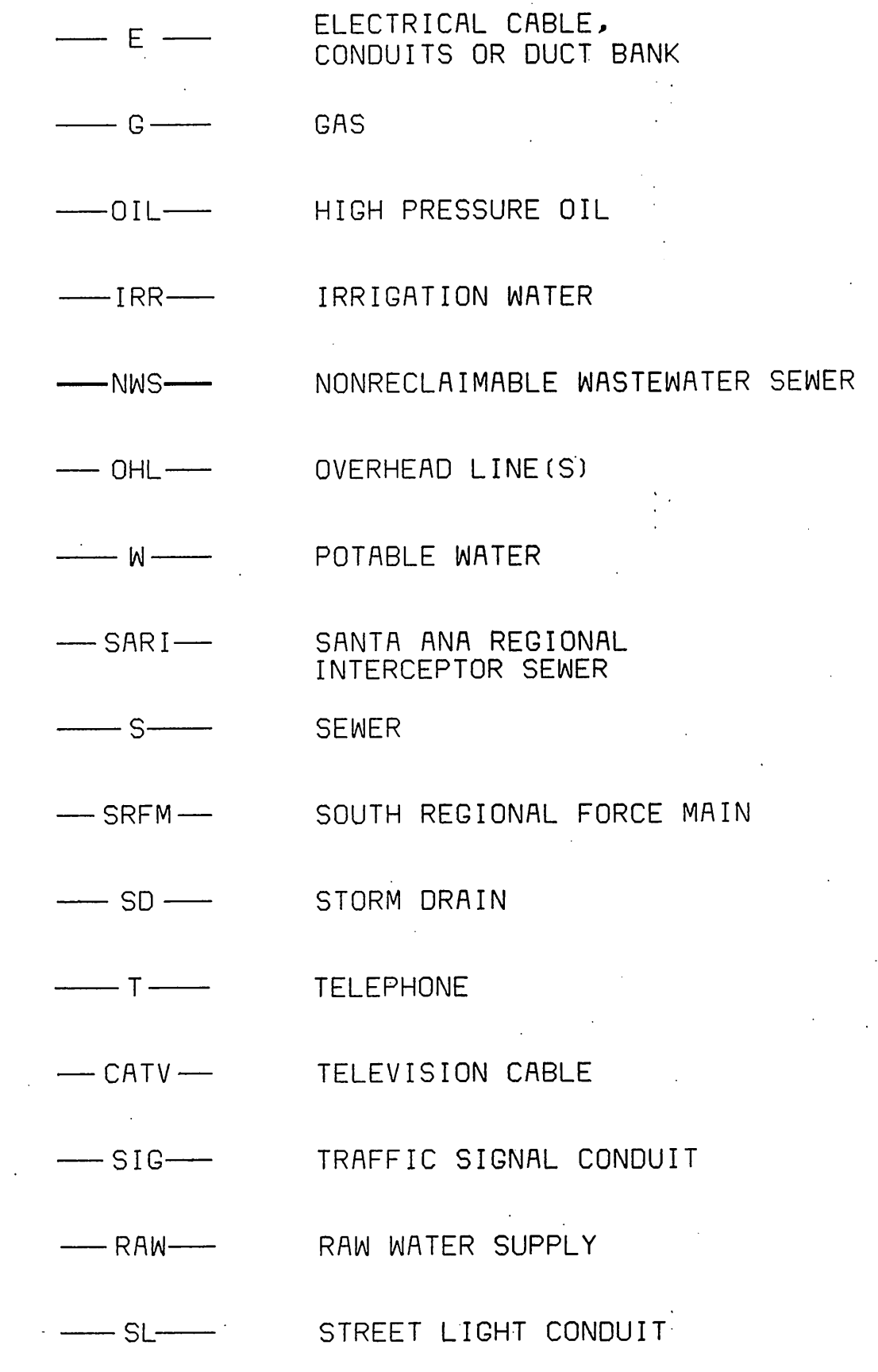
SINGLE LINE DRAWING



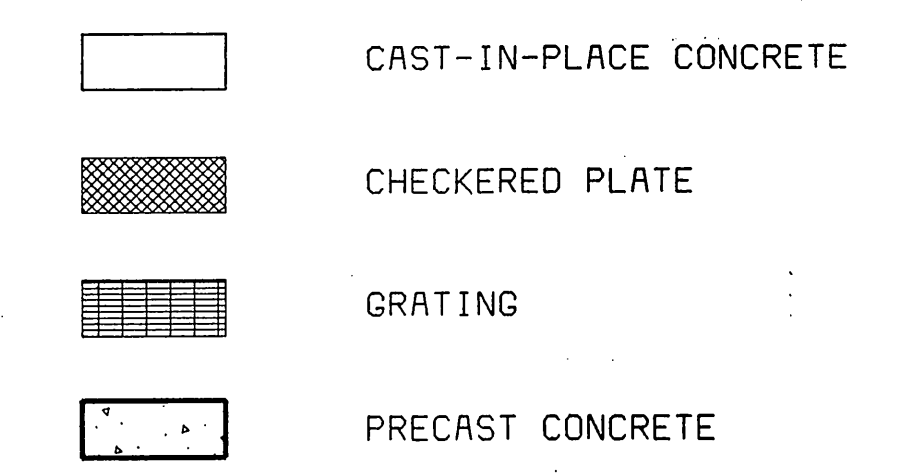
DETAIL & SECTION DESIGNATIONS



UTILITY DESIGNATIONS



MATERIALS



NOTES:
1. THIS IS A GENERAL ABBREVIATIONS LIST. THERE MAY BE ABBREVIATIONS LISTED WHICH ARE NOT INCLUDED IN THE CONTRACT PLANS.

DESIGNED	JTG	PROJECT NO.	23068
DETAILED	CND	SCALE	NO SCALE
CHECKED	GMC		
APPROVED	DJV		
DATE	6-26-96		



WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM

NONRECLAIMABLE WASTEWATER SEWER
LEGEND AND ABBREVIATIONS

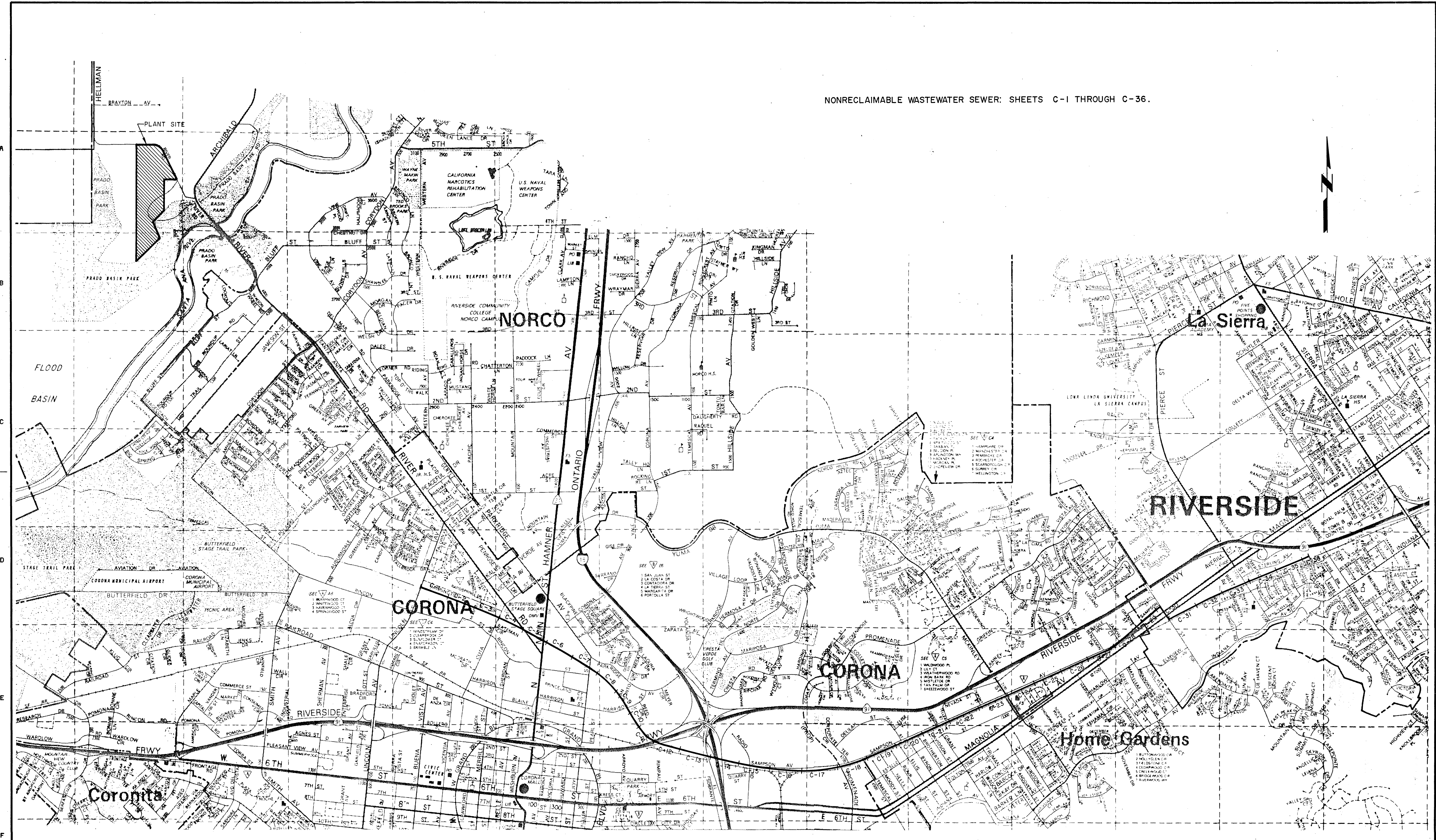
REGISTERED PROFESSIONAL ENGINEER
DENTON VOSS
No. C49833
EXP. 9-30-99
CIVIL
STATE OF CALIFORNIA

G-3
S-1711
SHEET
3 OF

05/03/85 11:34:46

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NONRECLAIMABLE WASTEWATER SEWER: SHEETS C-1 THROUGH C-36.



KEY PLAN
NTS

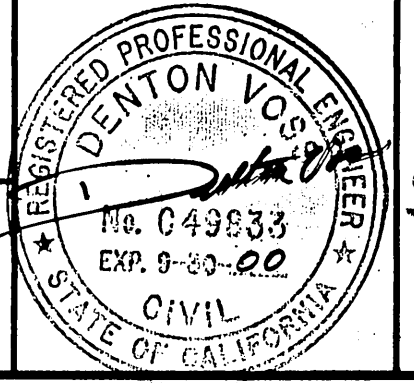
DESIGNED	J.T.G.				
DETAILED	K.T.				
CHECKED	G.M.C.				
APPROVED	D.V.				
DATE	6-26-90				
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED J.T.G.
 DETAILED K.T.
 CHECKED G.M.C.
 APPROVED D.V.
 DATE 6-26-90

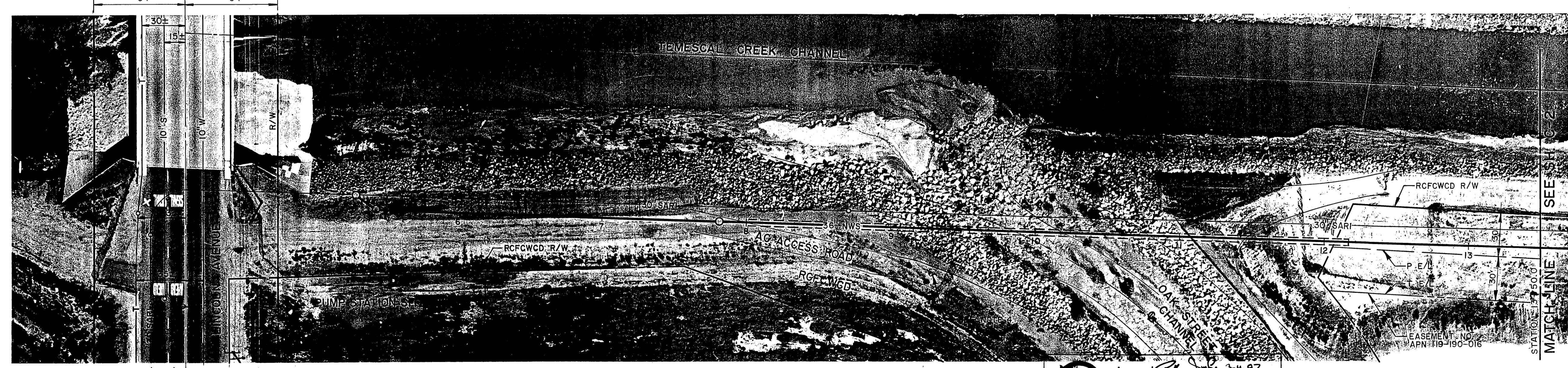
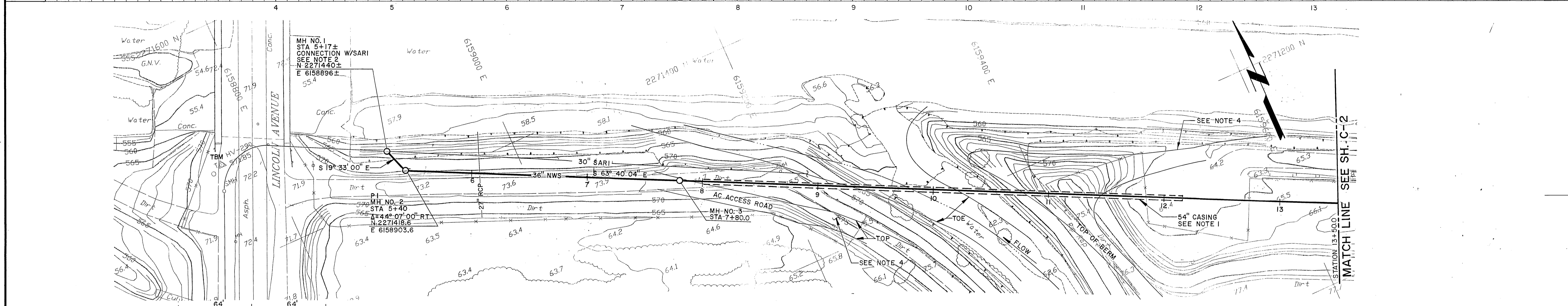
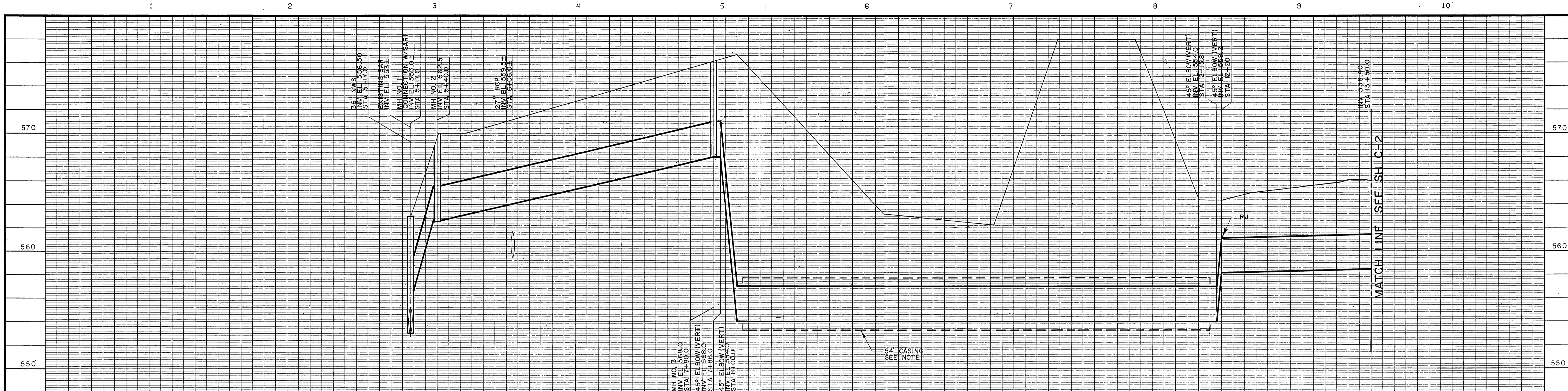


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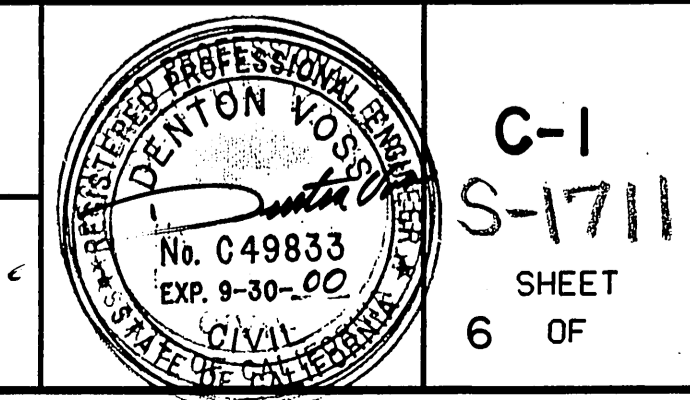
G-4
S-1711
SHEET
4 OF

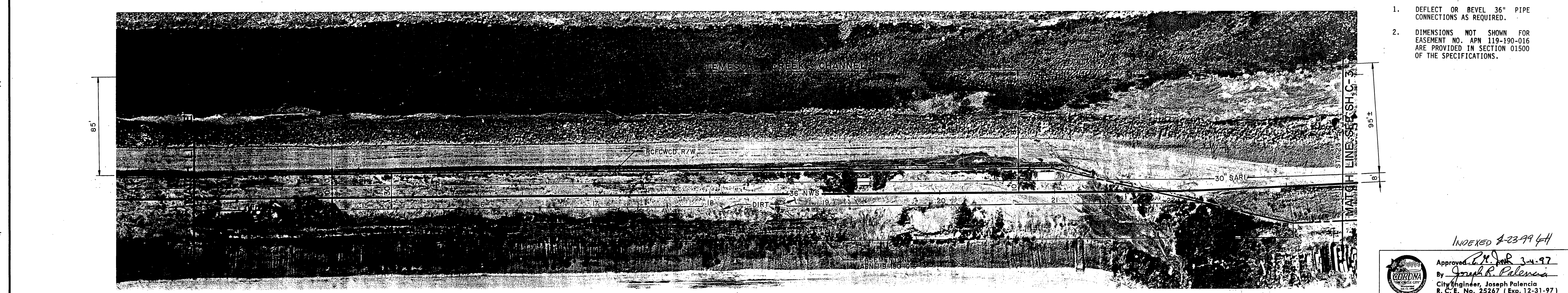
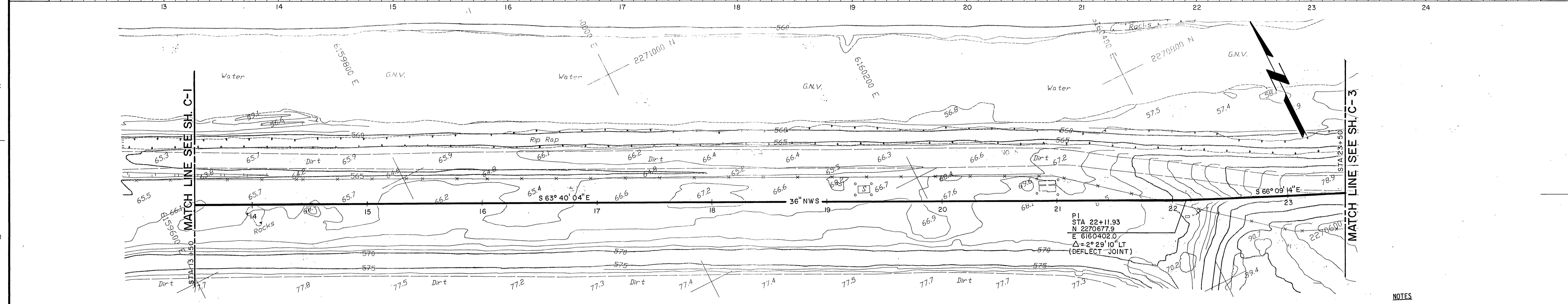
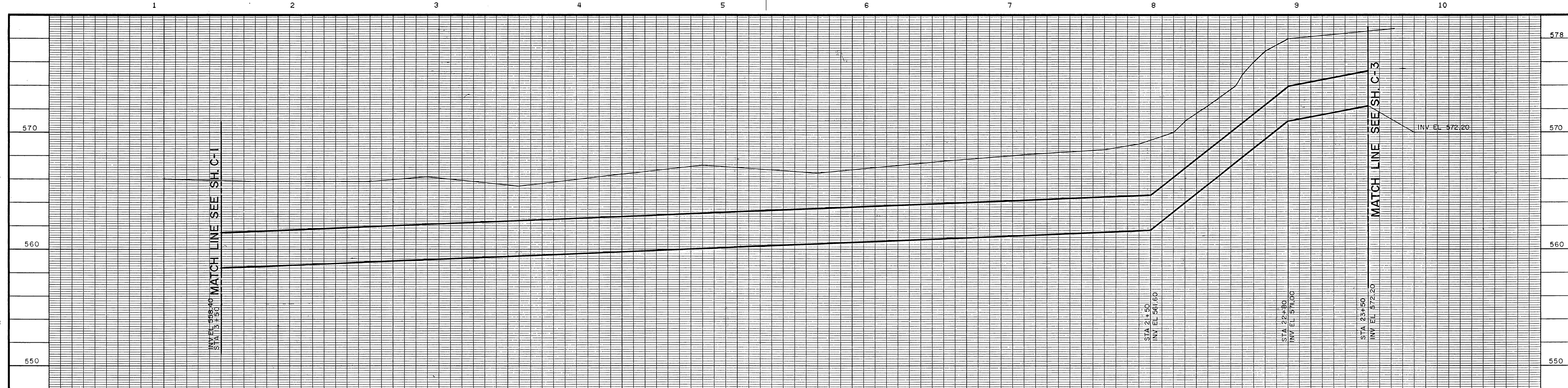


- NOTES**
1. STA 8+05 THROUGH STA 12+10 BORE & JACK 54" CASING UNDER OAK ST. CHANNEL. INSTALL 36" NWS IN CASING PER DETAIL A ON SHEET C-41.
 2. SEE SHEET C-40 FOR DETAIL OF CONNECTION WITH EXISTING SARI LINE. CONTRACTOR SHALL LOCATE CONNECTION.
 3. CUTTING INTO THE EXISTING TEMESCAL CREEK BERM IS ALLOWED FROM MAY 15 THROUGH SEPTEMBER 30.
 4. TOPOGRAPHIC BACKGROUND OBTAINED BY AERIAL SURVEY TAKEN IN MARCH, 1993. THE DARKER OVERLAID LINES AND PROFILE REPRESENT EXISTING CONDITIONS. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.
 5. DIMENSIONS NOT SHOWN FOR EASEMENT NO. APN 119-190-016 ARE PROVIDED IN SECTION 01500 OF THE SPECIFICATIONS.
 6. CONTRACTOR SHALL FIELD VERIFY THE POINT OF CONNECTION TO THE EXISTING 30" SARI.

INDEXED 4-23-99 LTH

DESIGNED J.G., P.K. DETAILED K.T., S.W. CHECKED G.M.C. APPROVED <i>[Signature]</i> DATE 6-26-96		PROJECT NO. 23068 SCALE= HORIZ: 1"=40' VERT: 1"=4'	WESTERN RIVERSIDE COUNTY REGIONAL WASTEWATER SYSTEM SOUTH REGIONAL COLLECTION SYSTEM NONRECLAIMABLE WASTEWATER SEWER PLAN AND PROFILE	C-1 S-1711 SHEET 6 OF
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- NOTES
1. DEFLECT OR BEVEL 36" PIPE CONNECTIONS AS REQUIRED.
 2. DIMENSIONS NOT SHOWN FOR EASEMENT NO. APN 119-190-016 ARE PROVIDED IN SECTION 01500 OF THE SPECIFICATIONS.

INDEXED 2-23-99 GH
 Approved: *[Signature]* 3-4-97
 By: *Joseph R. Palencia*
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)

WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM

NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE

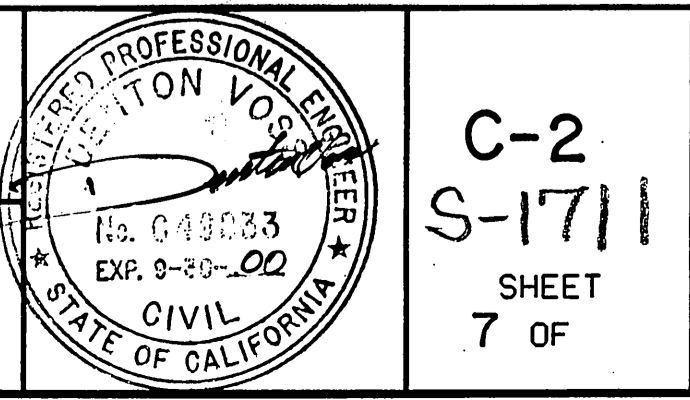
C-2
 S-1711
 SHEET
 7 OF

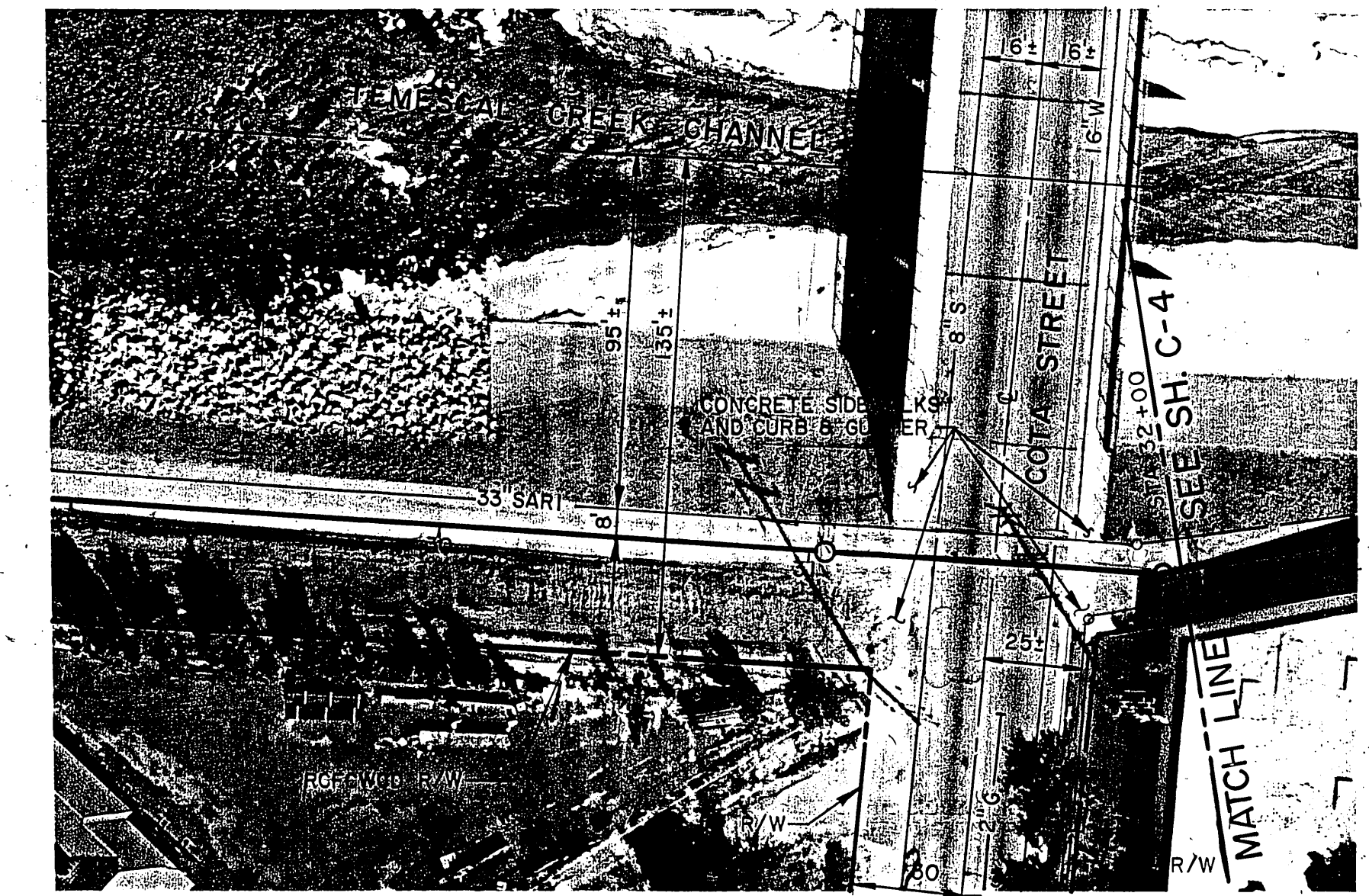
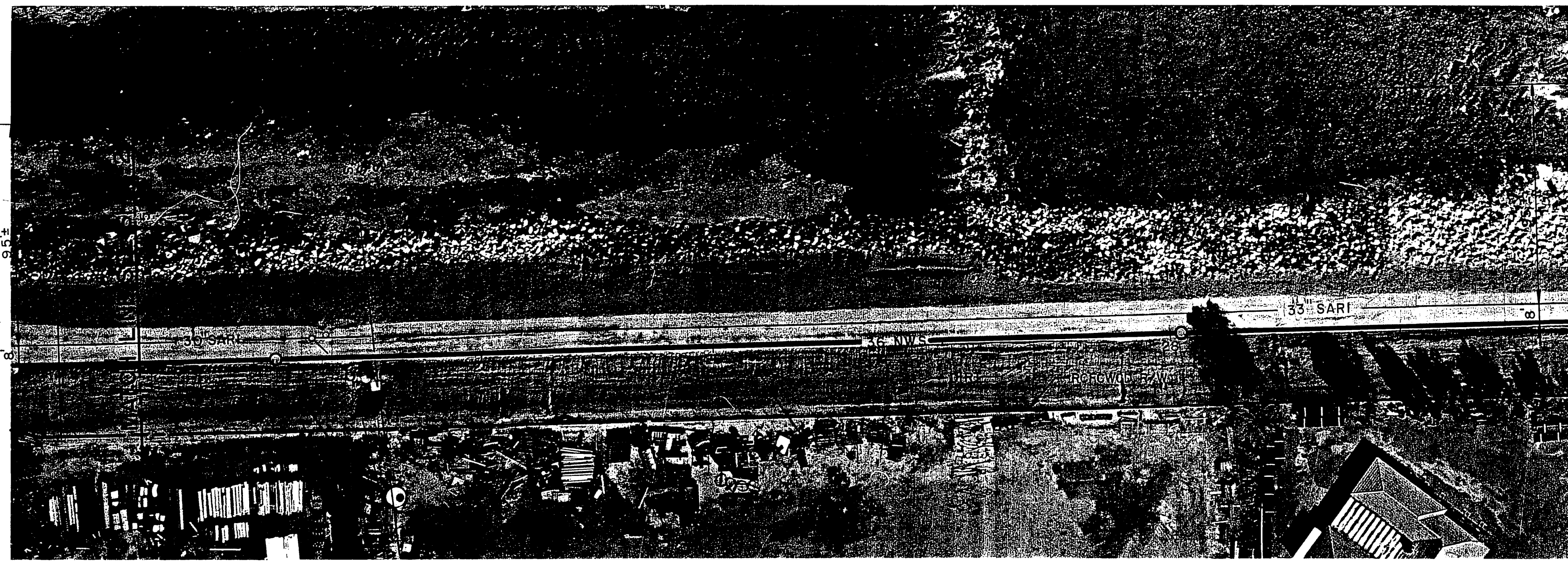
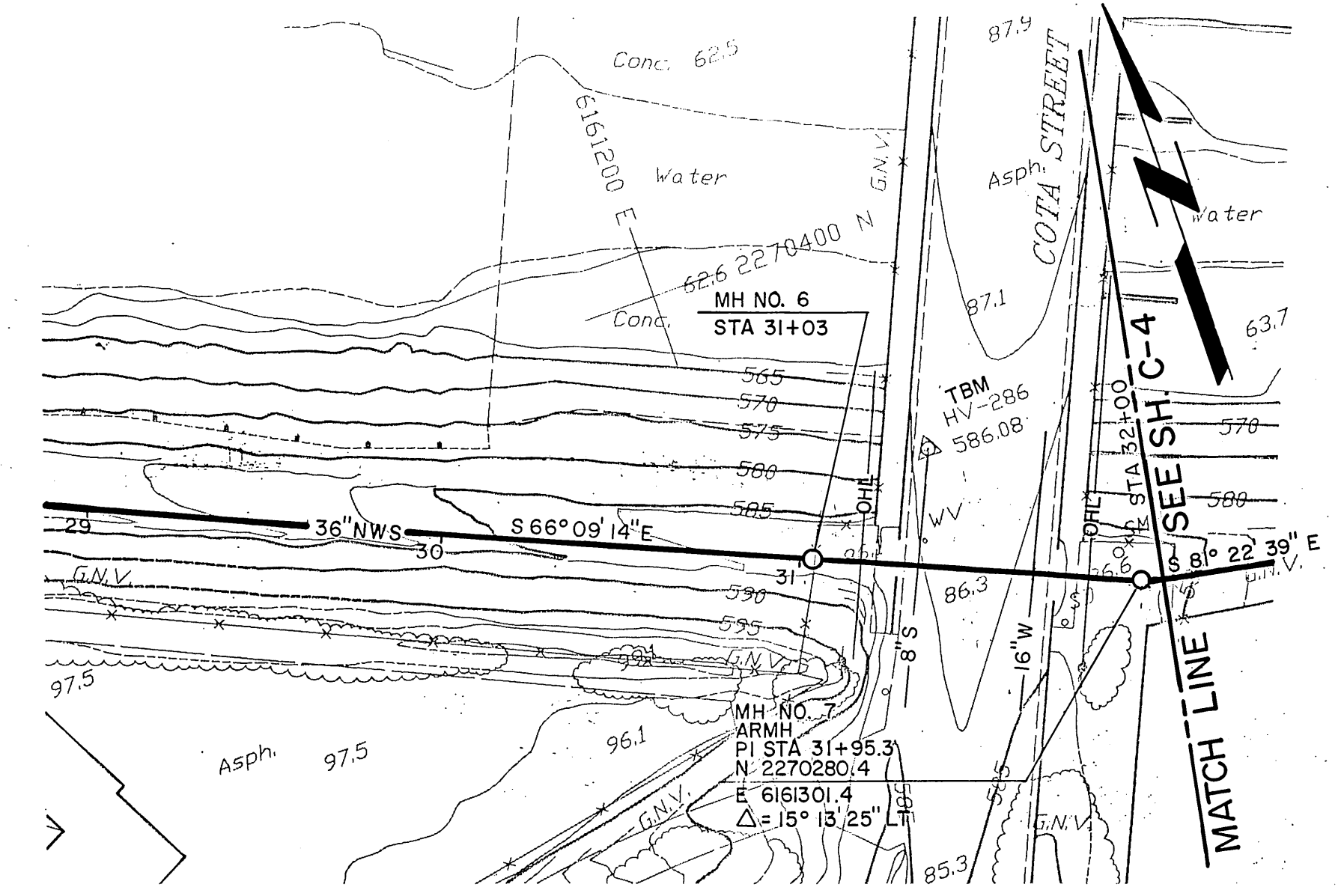
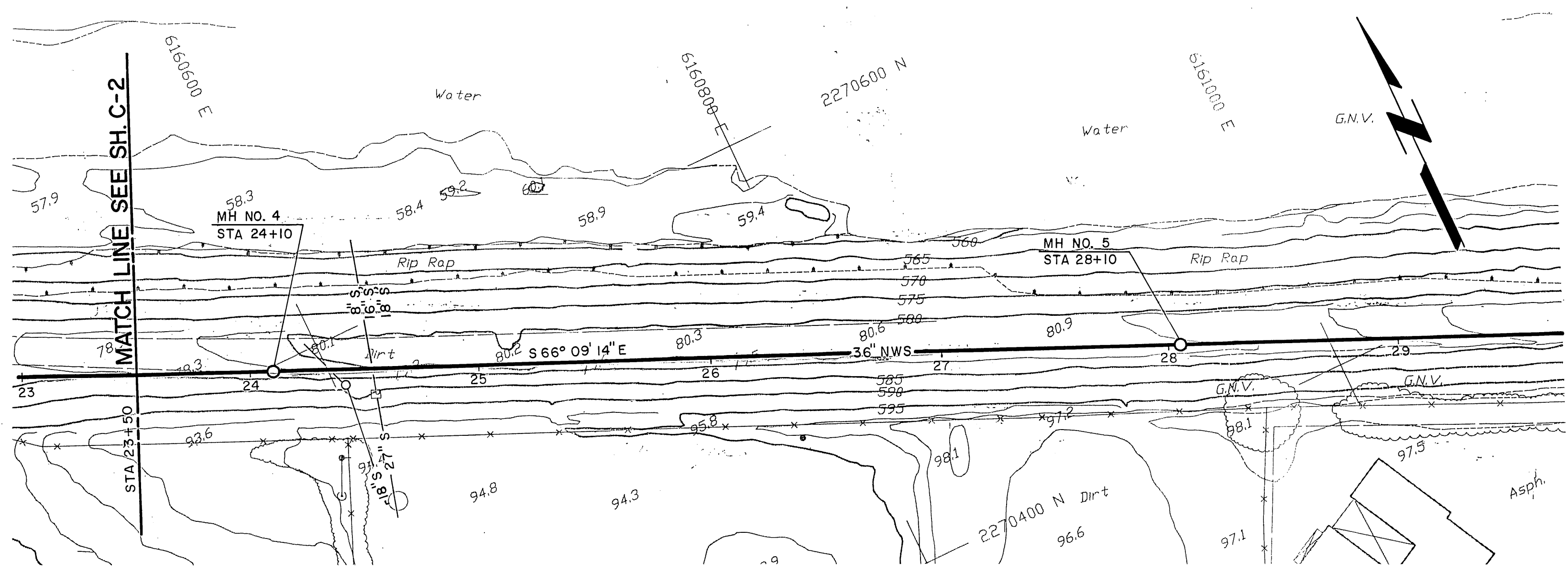
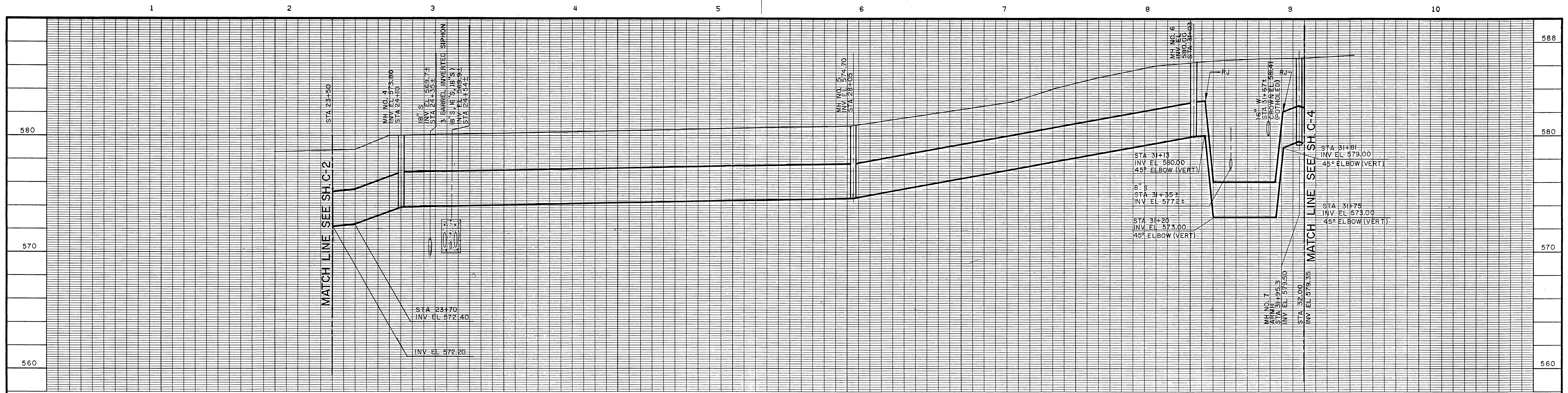
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED: J.G., P.K.
 DETAILED: K.T.
 CHECKED: G.M.C.
 APPROVED: DJV
 DATE: 6-26-96

PROJECT NO. 23068

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





INDEXED 4-23-99 4H
 Approved: *[Signature]*
 By: *[Signature]*
 Civil Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)

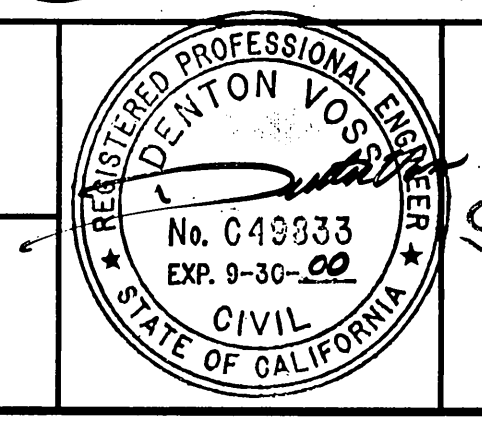
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED: J.G., P.K.
 DETAILED: K.T.
 CHECKED: G.M.C.
 APPROVED: DJV
 DATE: 6-26-96

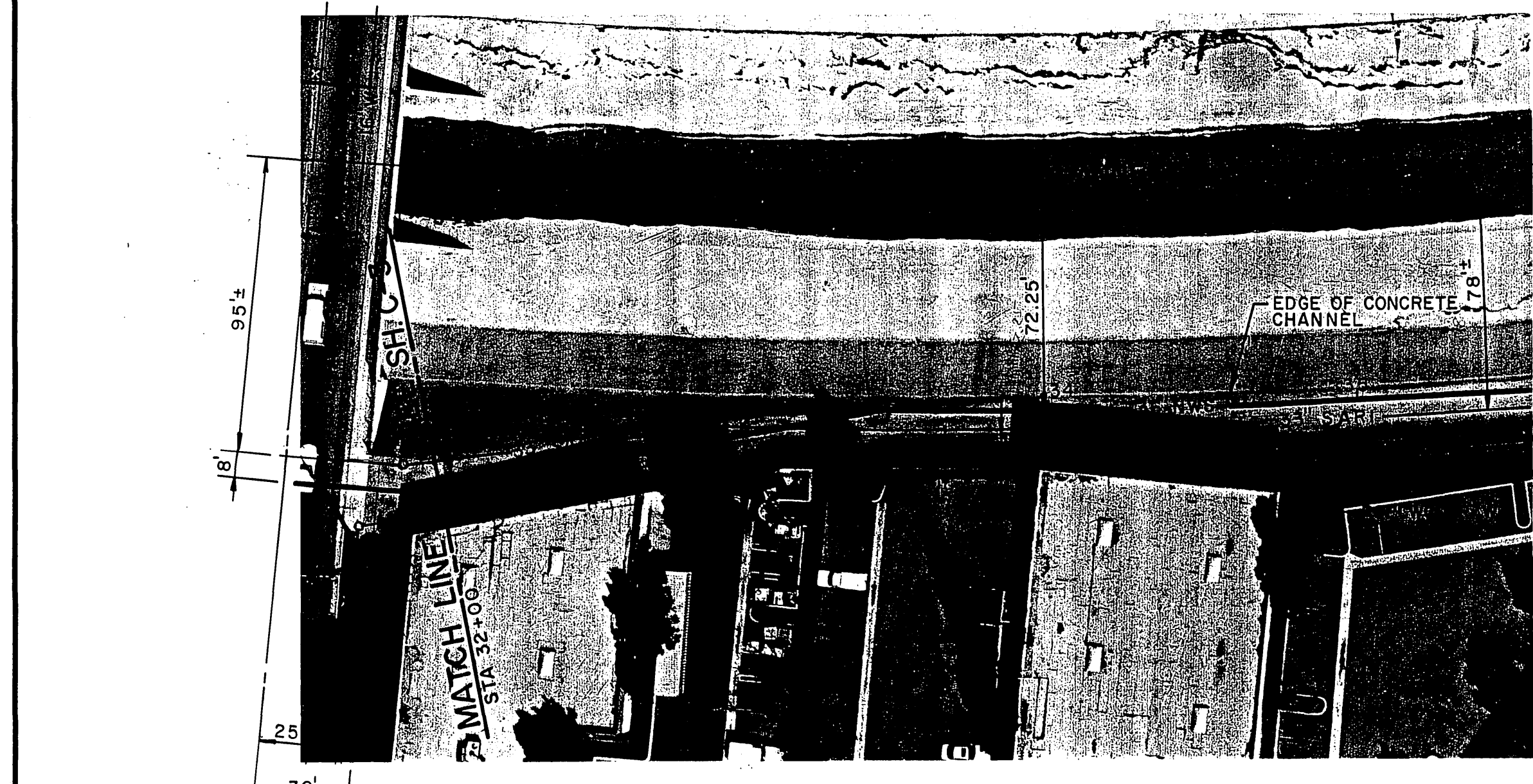
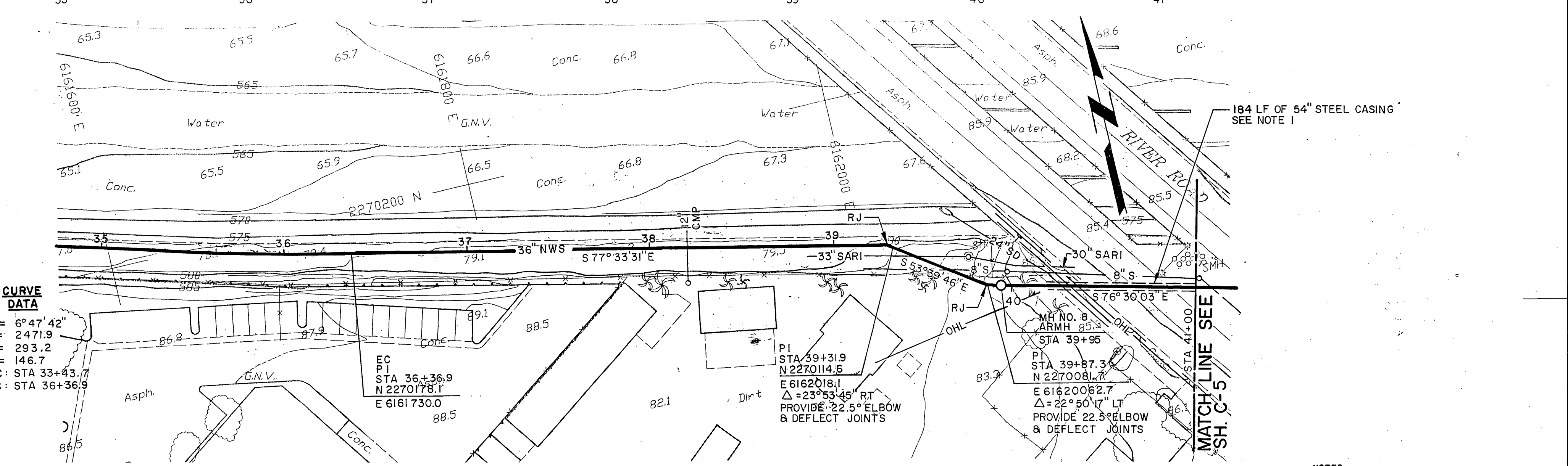
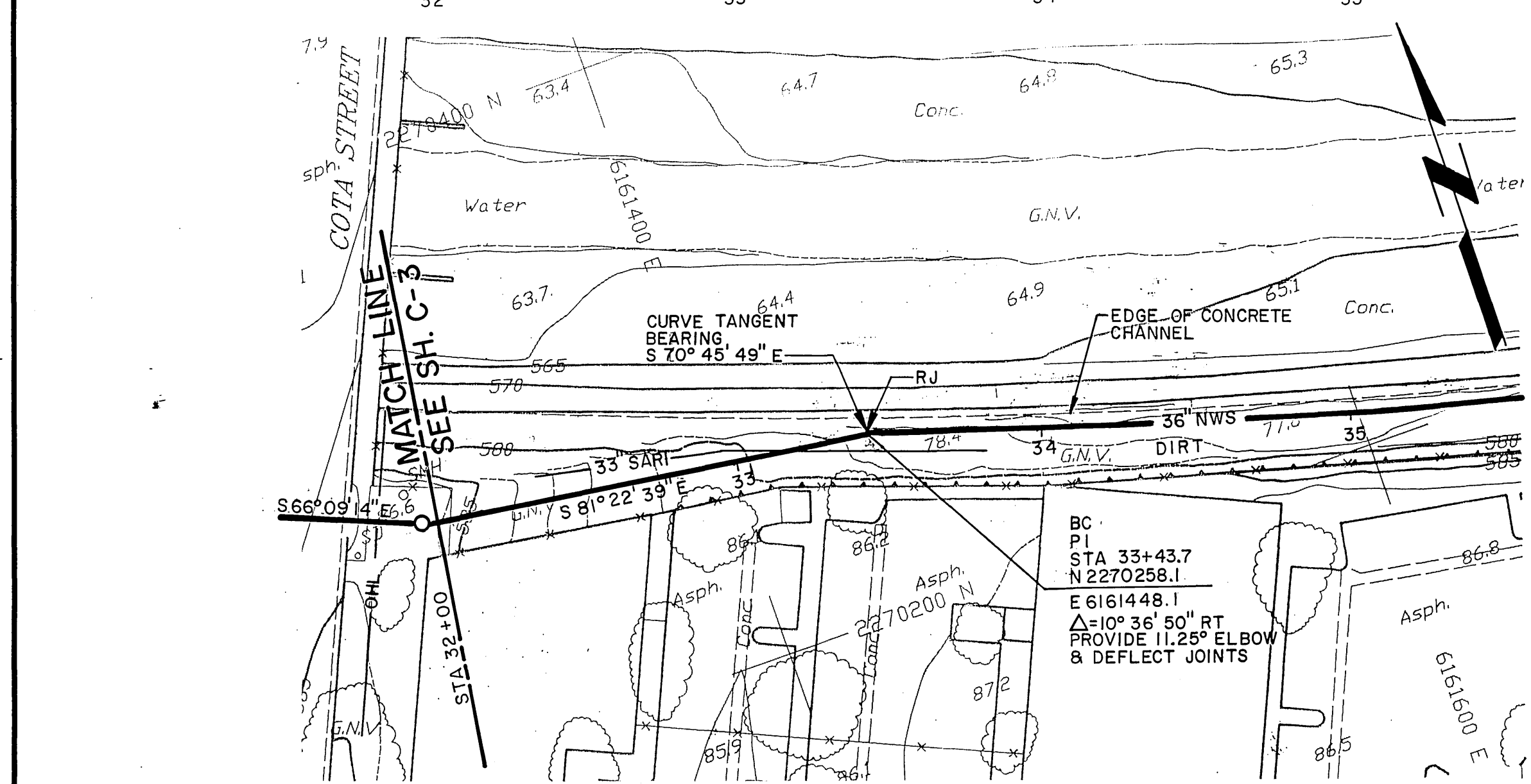
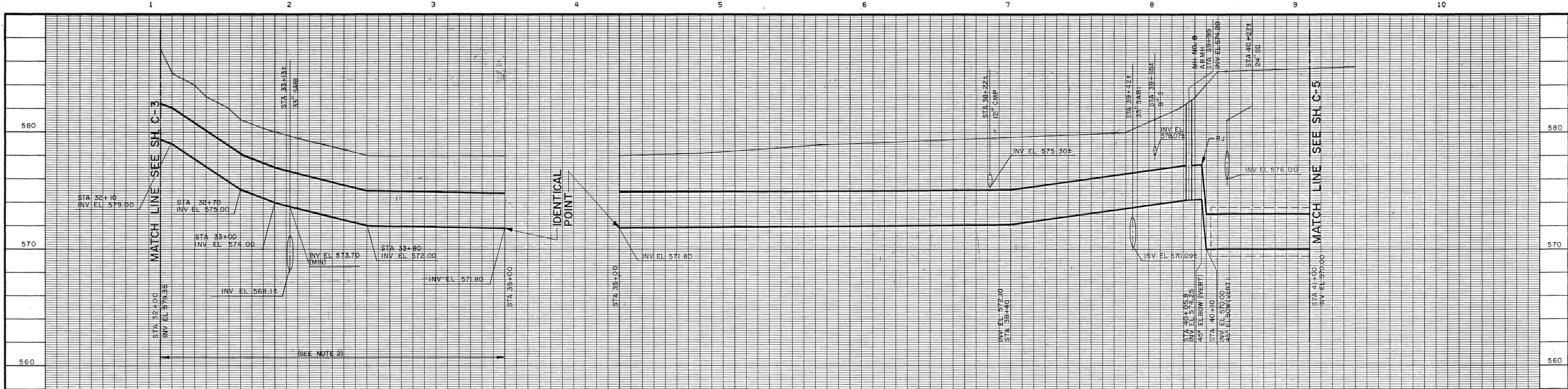


PROJECT NO.
23068
 SCALE =
 HORIZ: 1" = 40'
 VERT: 1" = 4'

WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE



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- NOTES**
1. STA 40+13 TO 42+27 BORE & JACK 54" CASING. INSTALL 36" NWS IN CASING PER DETAIL A ON SHEET C-41.
 2. DEFLECT OR BEVEL 36" PIPE CONNECTIONS AS REQUIRED
 3. DIMENSIONS NOT SHOWN FOR EASEMENT NO. APN 119-250-007 ARE PROVIDED IN SECTION 01500 OF THE SPECIFICATIONS.

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

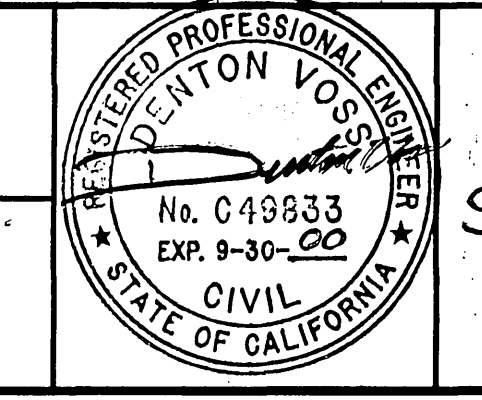
DESIGNED J.G., P.K.
 DETAILED K.T.
 CHECKED G.M.C.
 APPROVED T.J.V.
 DATE 6-26-96



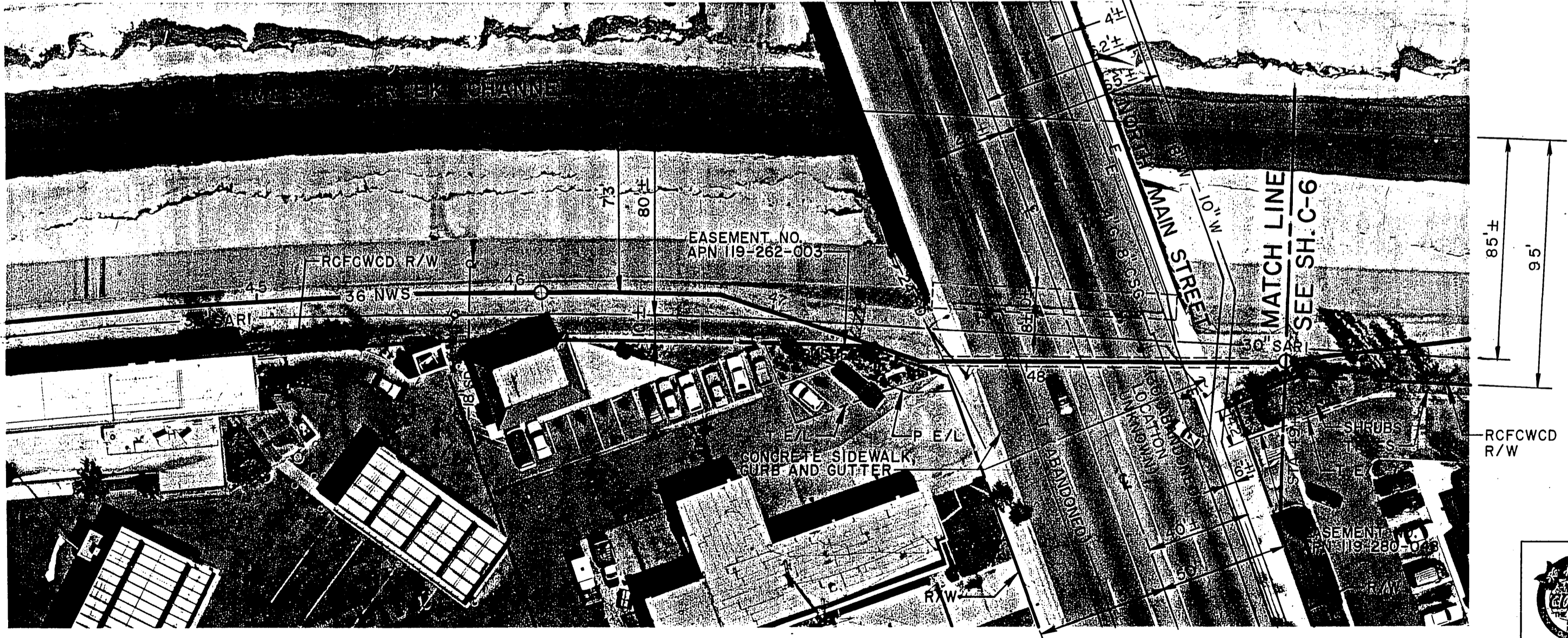
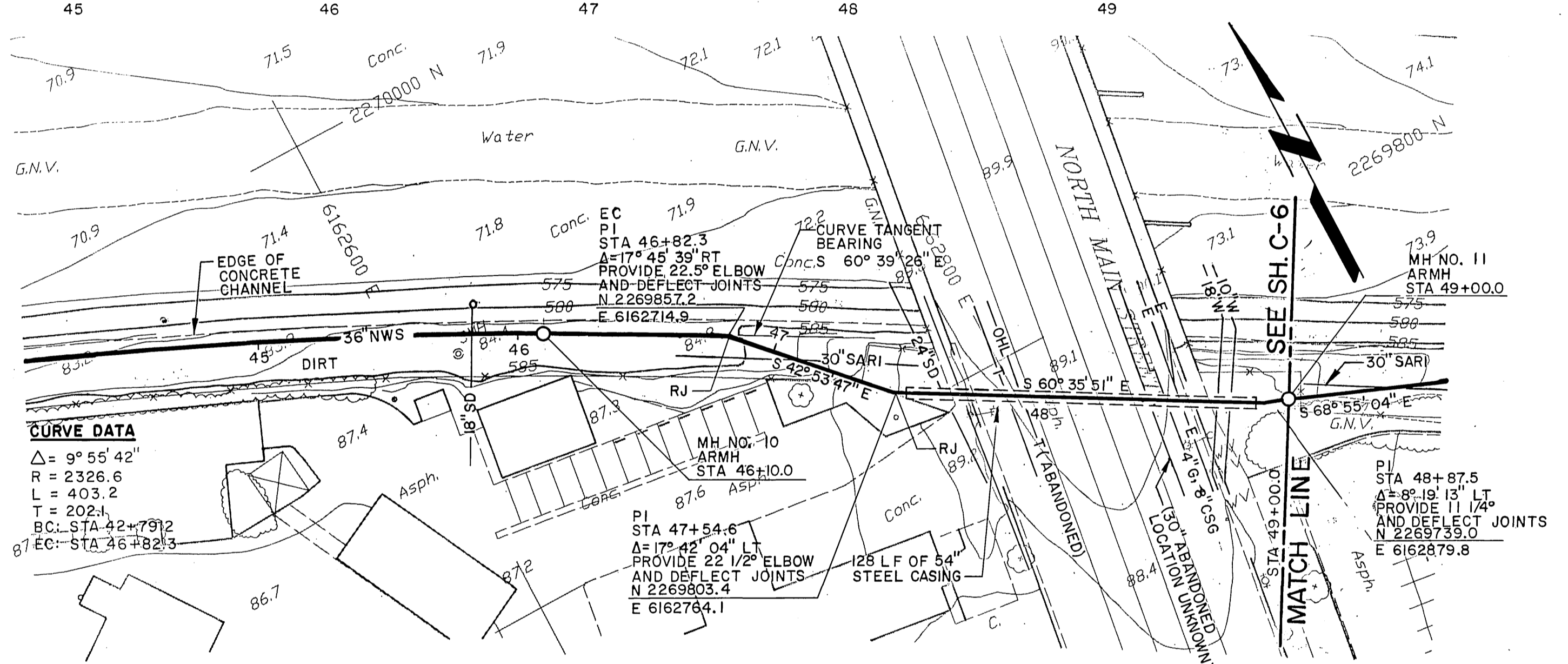
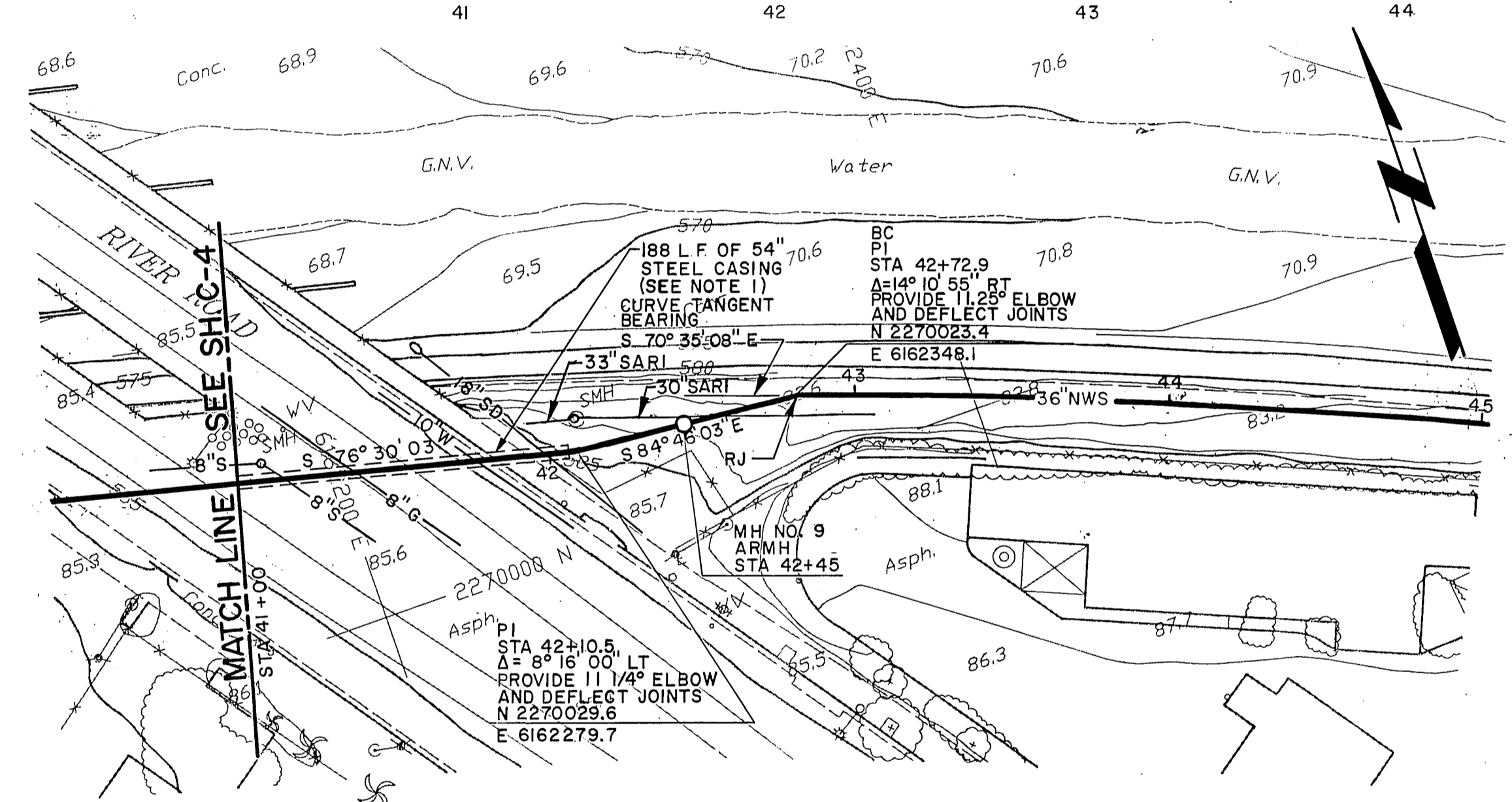
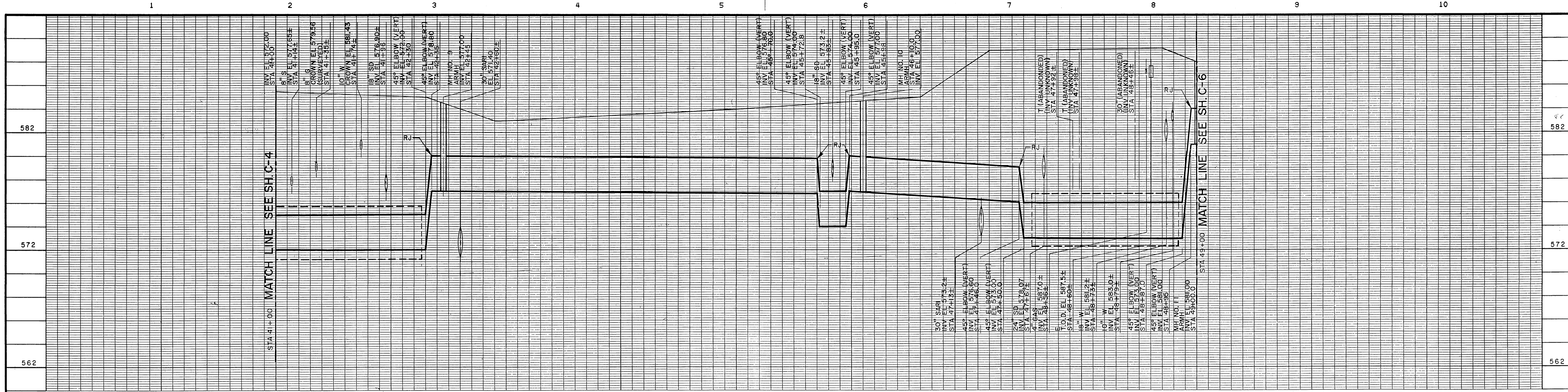
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 SCALE = HORIZ: 1" = 40'
 VERT: 1" = 4'

WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE

APPROVED 3-4-97
 By Joseph R. Palencia
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)



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 S-1711
 SHEET 9 OF



- NOTES**
1. STA 40+13 TO 42+27 BORE & JACK 54" CASING. INSTALL 36" NWS IN CASING PER DETAIL A ON SHEET C-41.
 2. STA 47+58 TO 48+84 BORE & JACK 54" CASING. INSTALL 36" NWS IN CASING PER DETAIL A ON SHEET C-41.
 3. DIMENSIONS NOT SHOWN FOR EASEMENT NOS. APN 119-262-003 AND APN 119-260-048 ARE PROVIDED IN SECTION 01500 OF THE SPECIFICATIONS.

NO.	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CHK	APP

DESIGNED J.S., P.K.
 DETAILED K.T.
 CHECKED G.M.C.
 APPROVED DJV
 DATE 6-26-96



PROJECT NO.
 23068
 SCALE=
 HORIZ: 1"=40'
 VERT: 1"=4'

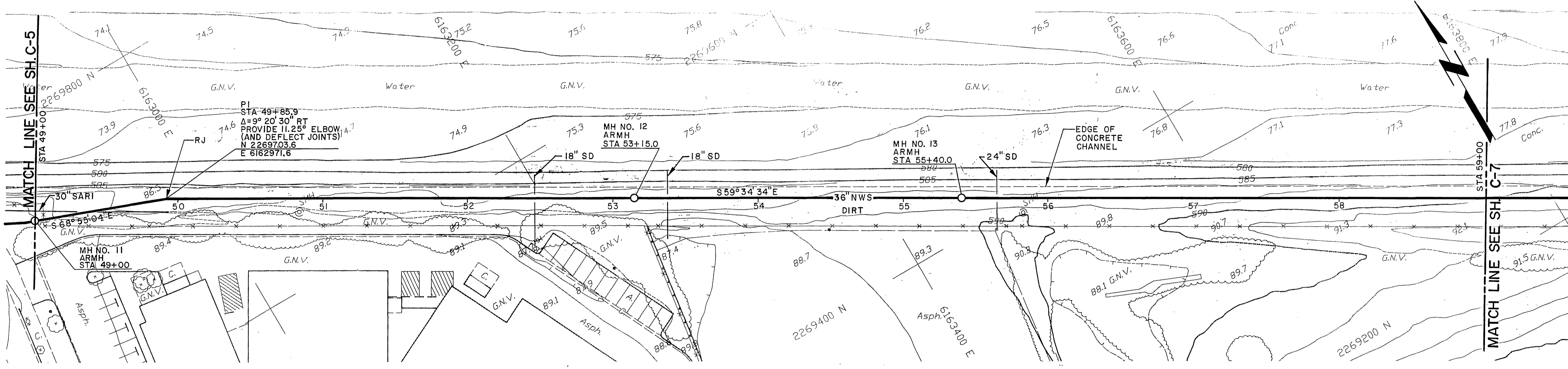
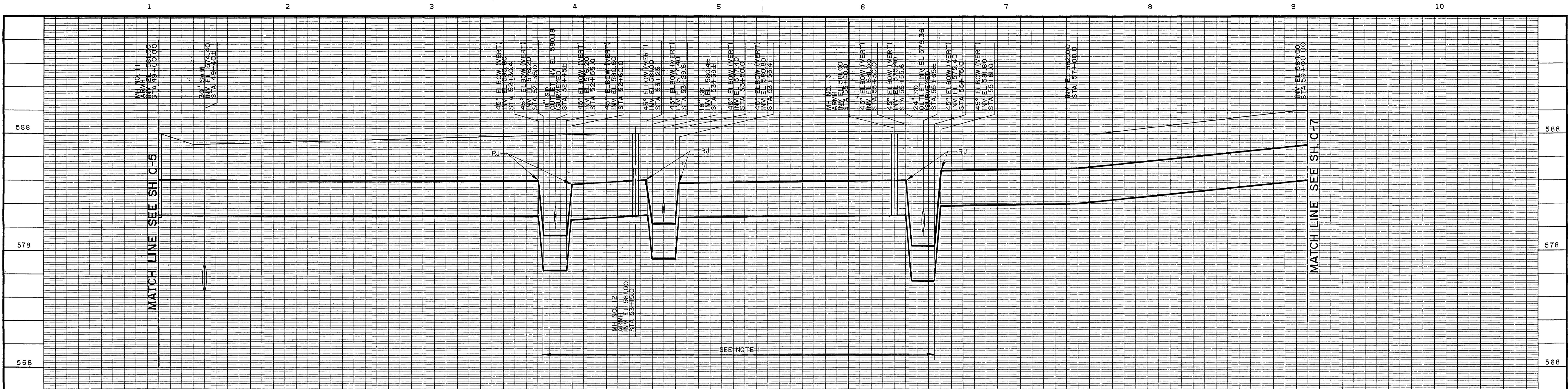
WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE

INDEXED 4-23-99 4th

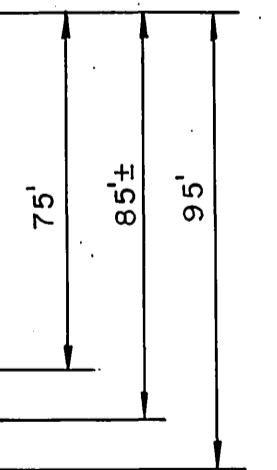
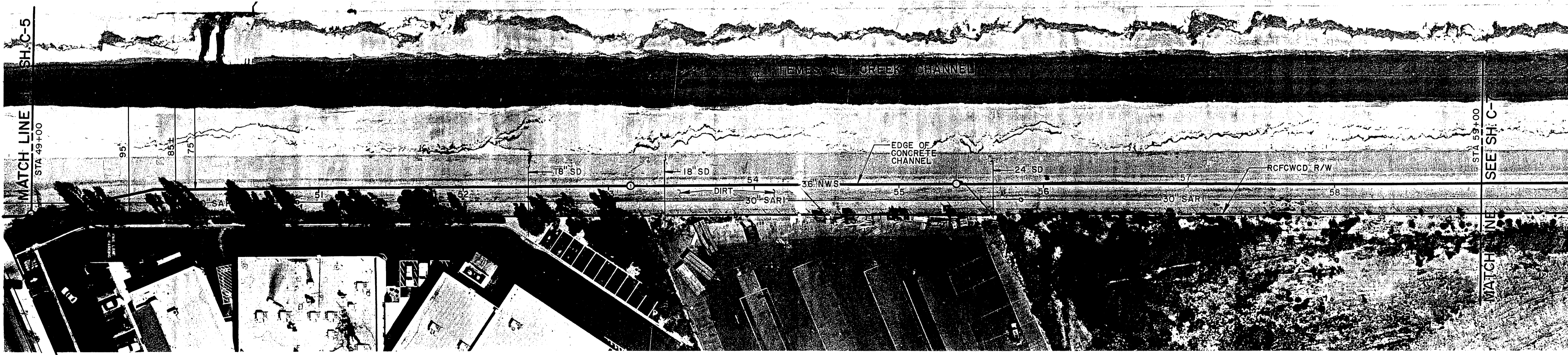
Approved [Signature] 3-4-97
 By Joseph R. Palencia
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)

REGISTERED PROFESSIONAL ENGINEER
 DENTON VOS
 No. C49833
 EXP. 9-30-00
 CIVIL
 STATE OF CALIFORNIA

C-5
 S-1711
 SHEET
 10 OF

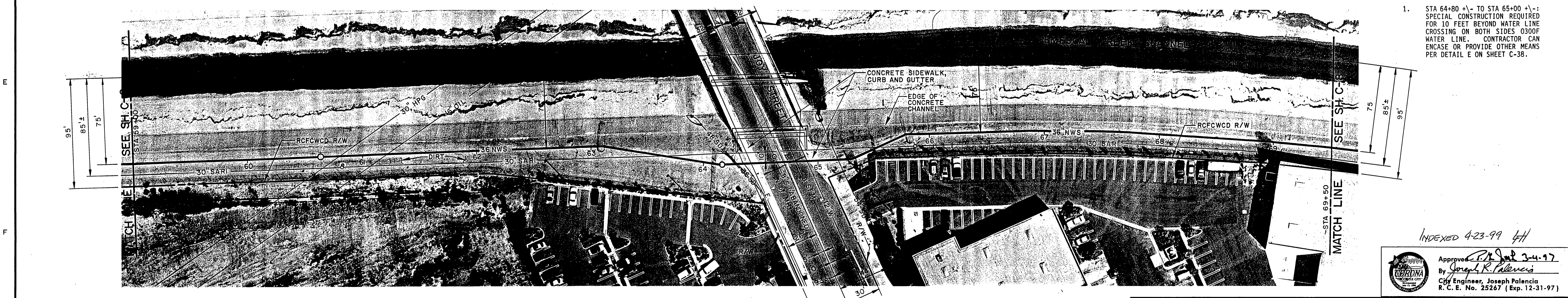
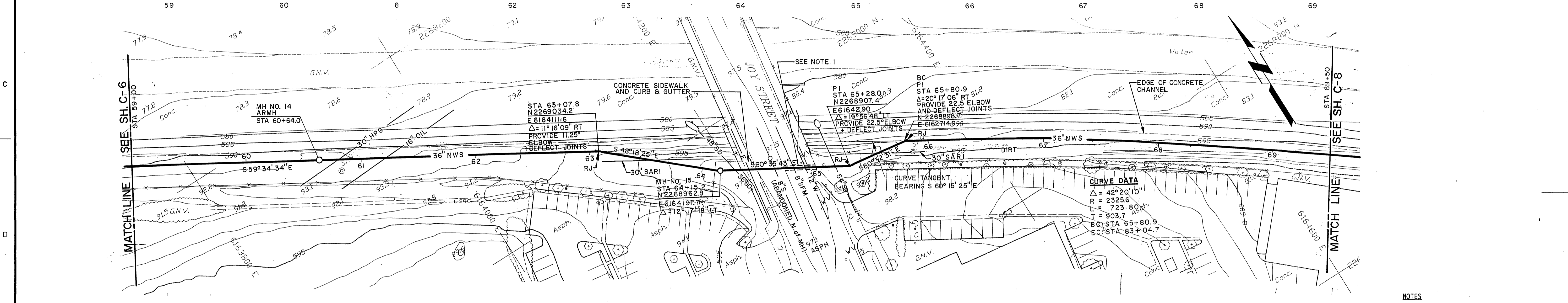
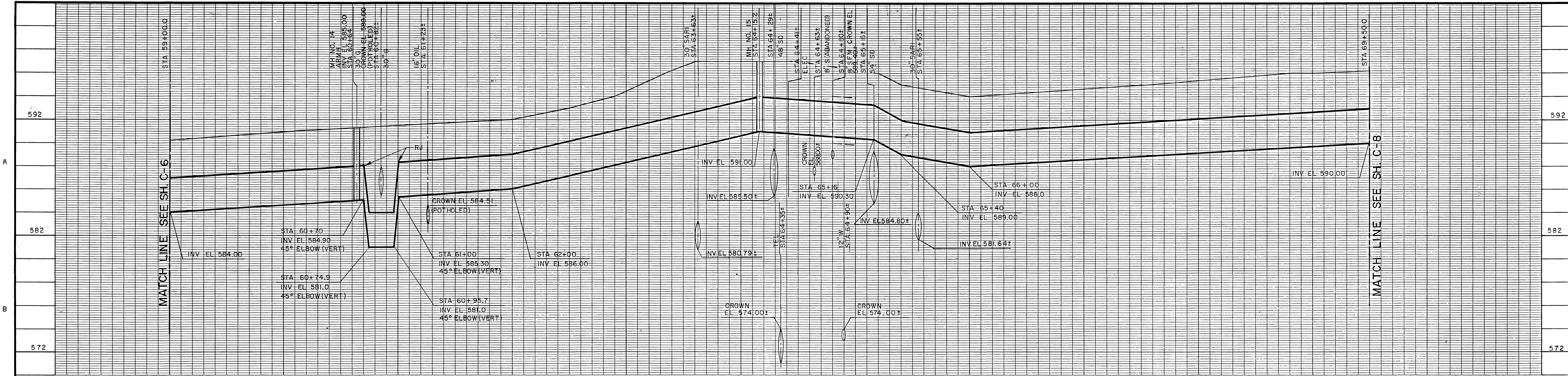


- NOTES**
- BETWEEN STATIONS 52+35 AND 55+75 THE CONTRACTOR IS ALLOWED TO ELIMINATE MH NO. 15 AND MH NO. 16 BY INSTALLING THE MNS AT A DEEPER ELEVATION THAT WILL CLEAR THE EXISTING UTILITIES AND NOT PRODUCE ANY INTERMEDIATE HIGH POINTS.
 - DIMENSIONS NOT SHOWN FOR EASEMENT NO. APN 119-280-048 ARE PROVIDED IN SECTION 01500 OF THE SPECIFICATIONS.



INDEXED 4-23-99 4H
 Approved: *Joseph R. Palencia* 2-4-97
 By: *Joseph R. Palencia*
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)

DESIGNED J.G., P.K. DETAILED K.T. CHECKED G.M.C. APPROVED DJV DATE 6-26-96	Black & Veatch Irvine, California	PROJECT NO. 23068	WESTERN RIVERSIDE COUNTY REGIONAL WASTEWATER SYSTEM SOUTH REGIONAL COLLECTION SYSTEM NONRECLAIMABLE WASTEWATER SEWER PLAN AND PROFILE		C-6 S-1711 SHEET 11 OF
		SCALE= HORIZ: 1"=40' VERT: 1"=4'			
DATE REVISIONS AND RECORD OF ISSUE NO. BY CK APP		CCG, DWG, NO: 23068-301-312-R000			



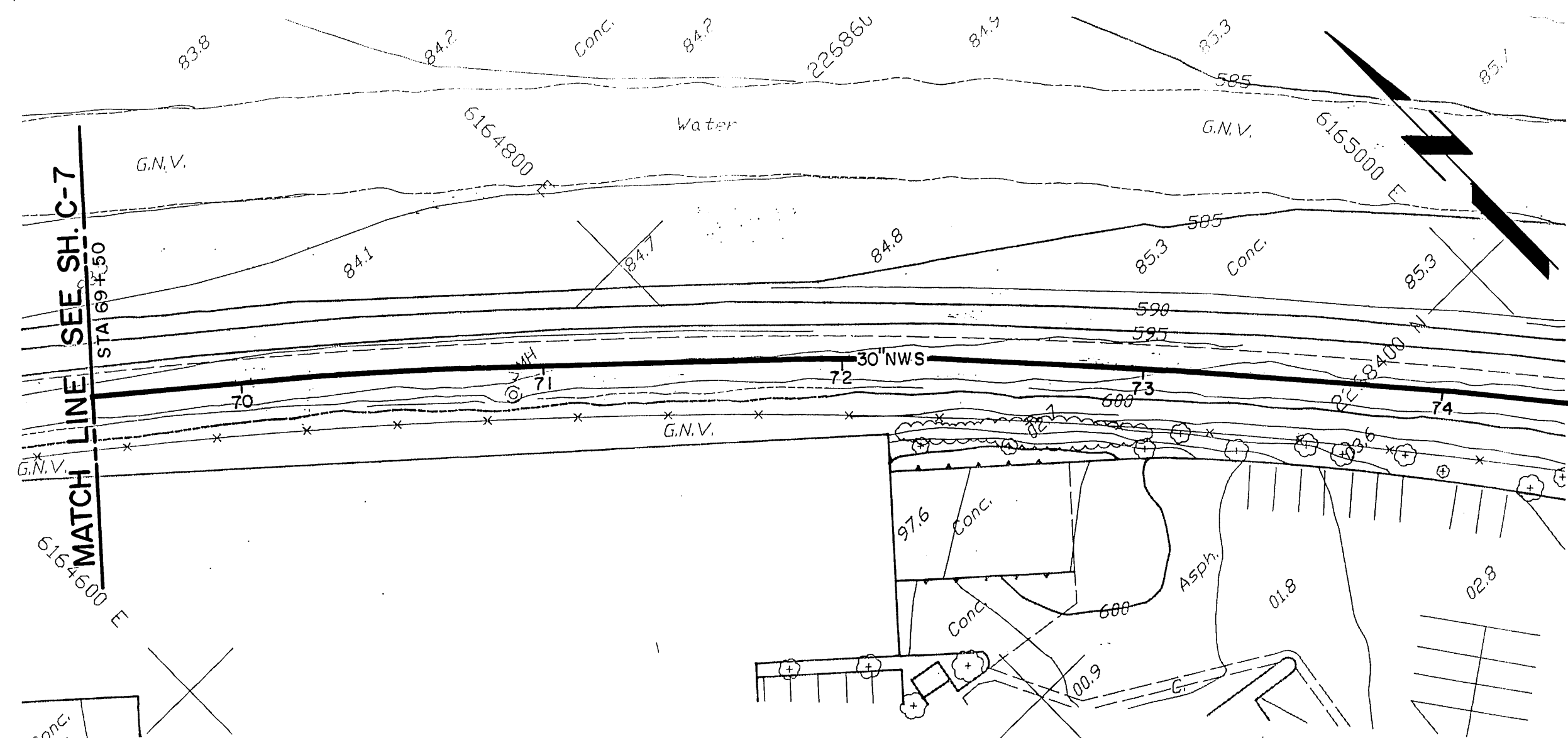
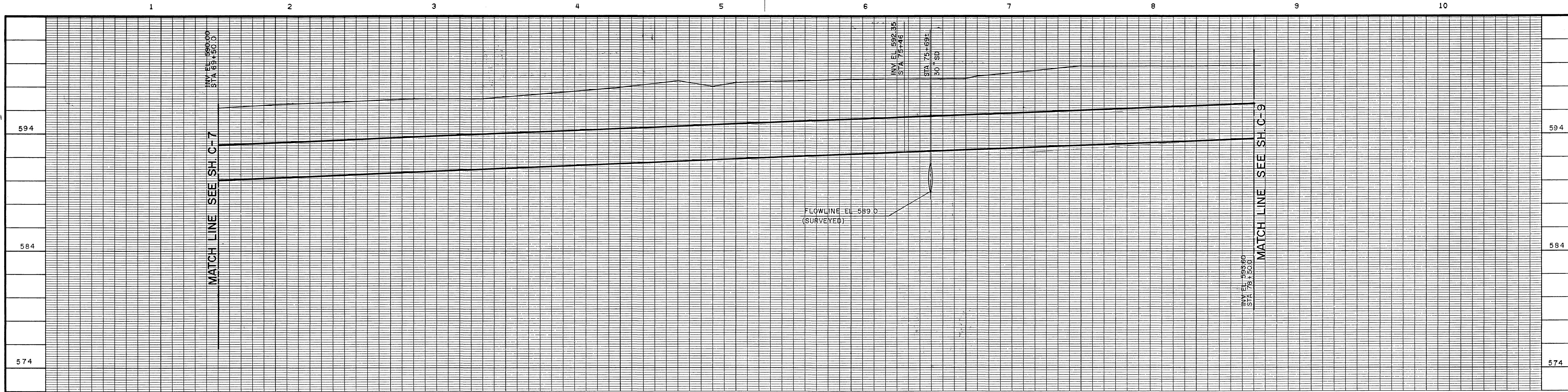
- NOTES
1. STA 64+80 +/- TO STA 65+00 +/-: SPECIAL CONSTRUCTION REQUIRED FOR 10 FEET BEYOND WATER LINE CROSSING ON BOTH SIDES 0300P WATER LINE. CONTRACTOR CAN ENCASE OR PROVIDE OTHER MEANS PER DETAIL E ON SHEET C-3B.

INDEXED 4-23-99 *gh*

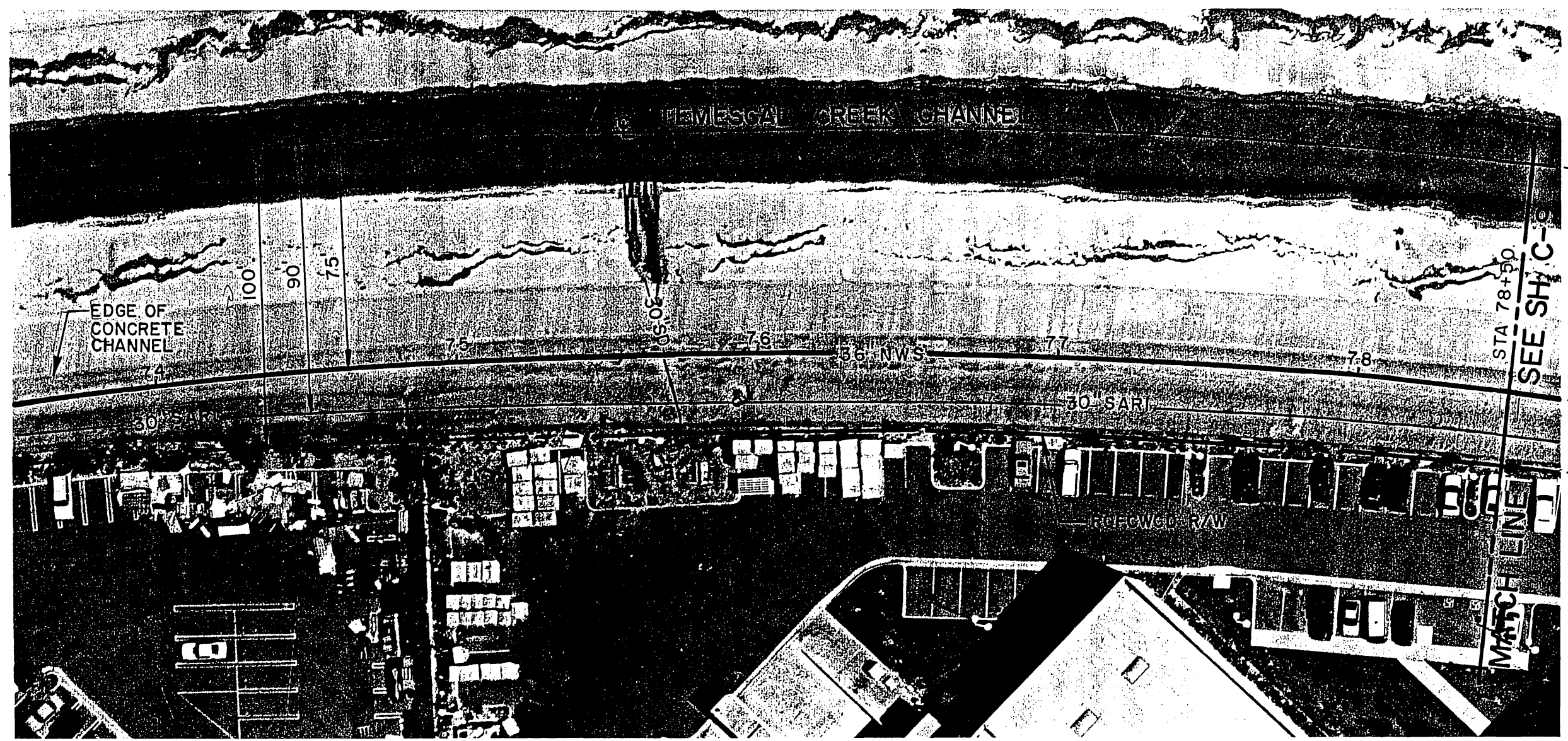
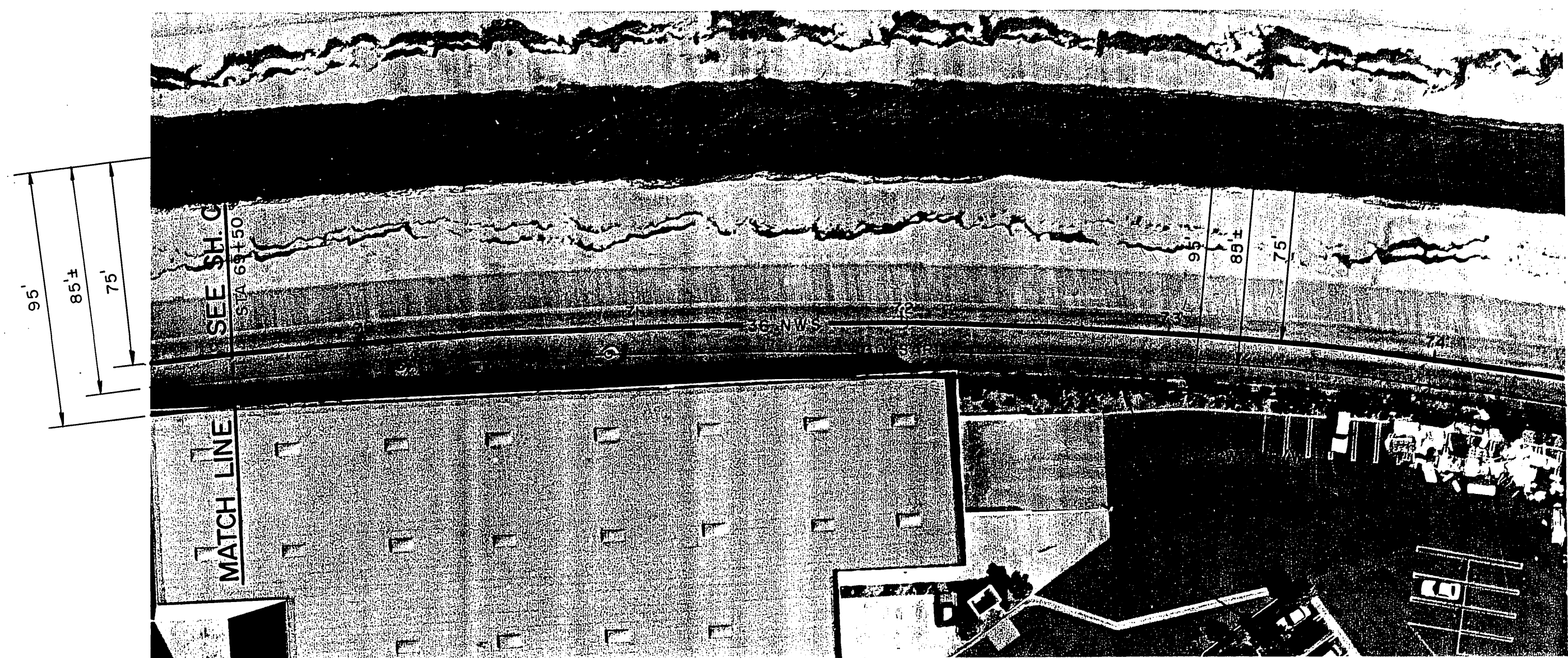
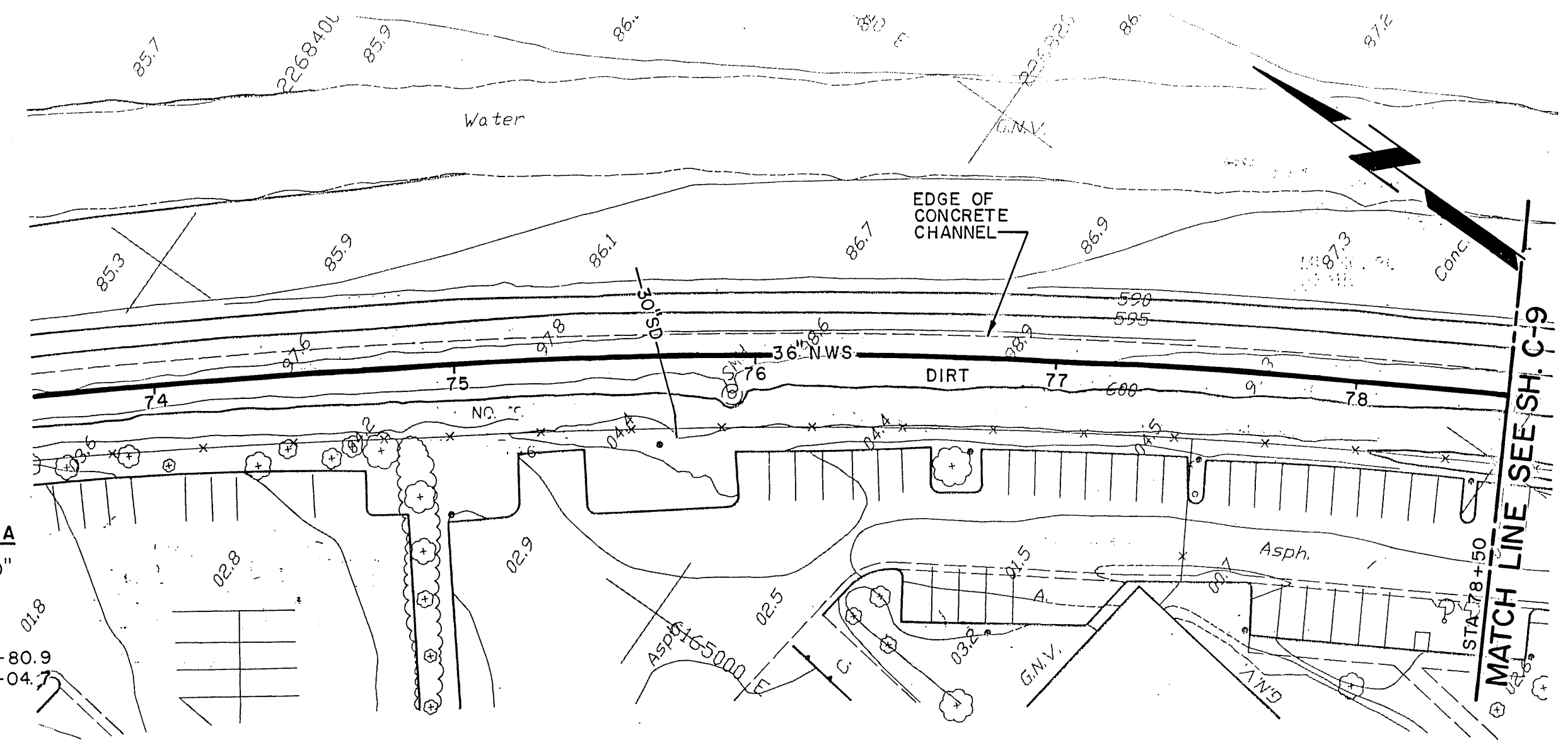
Approved: *[Signature]* 3-4-97
 By: Joseph R. Palencia
 Civil Engineer, Joseph Palencia
 R.C.E. No. 25267 (Exp. 12-31-97)

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED: J.G., P.K. DETAILED: K.T. CHECKED: G.M.C. APPROVED: DJV DATE: 6-26-96	Black & Veatch Irvine, California	PROJECT NO. 23068 SCALE= HORIZ: 1" = 40' VERT: 1" = 4'	WESTERN RIVERSIDE COUNTY REGIONAL WASTEWATER SYSTEM SOUTH REGIONAL COLLECTION SYSTEM NONRECLAIMABLE WASTEWATER SEWER PLAN AND PROFILE	REGISTERED PROFESSIONAL ENGINEER JOSEPH R. PALENCIA CIVIL STATE OF CALIFORNIA	C-7 S-1711 SHEET 12 OF
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CURVE DATA
 $\Delta = 42^\circ 28' 10''$
 $R = 2325.6$
 $L = 1723.8$
 $T = 903.7$
 $BC: STA 65+80.9$
 $EC: STA 83+04.7$



INDEXED 4-23-99 4H
 Approved *[Signature]* 3-4-97
 By *Joseph R. Palencia*
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)

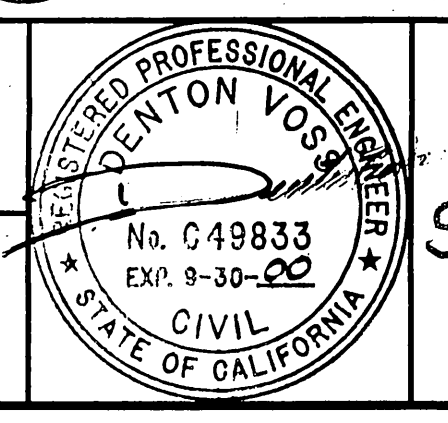
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED J.G., P.K.
 DETAILED K.T.
 CHECKED G.M.C.
 APPROVED DJV
 DATE 6-26-96

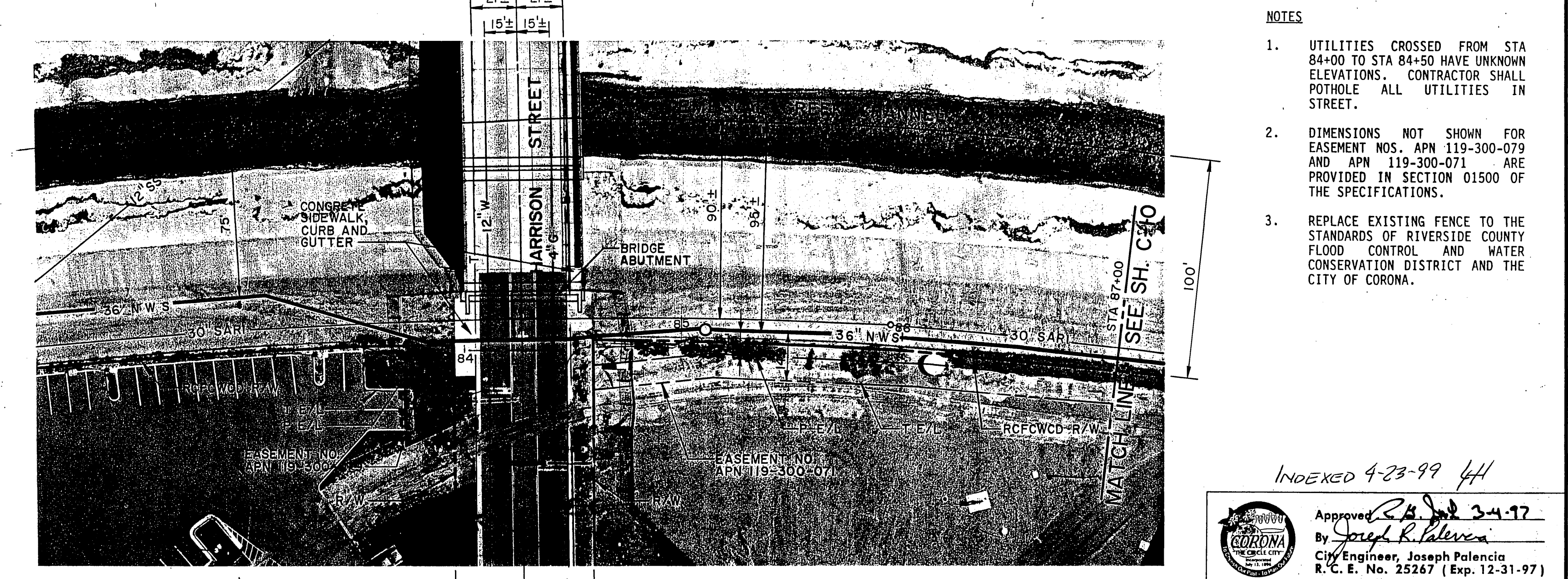
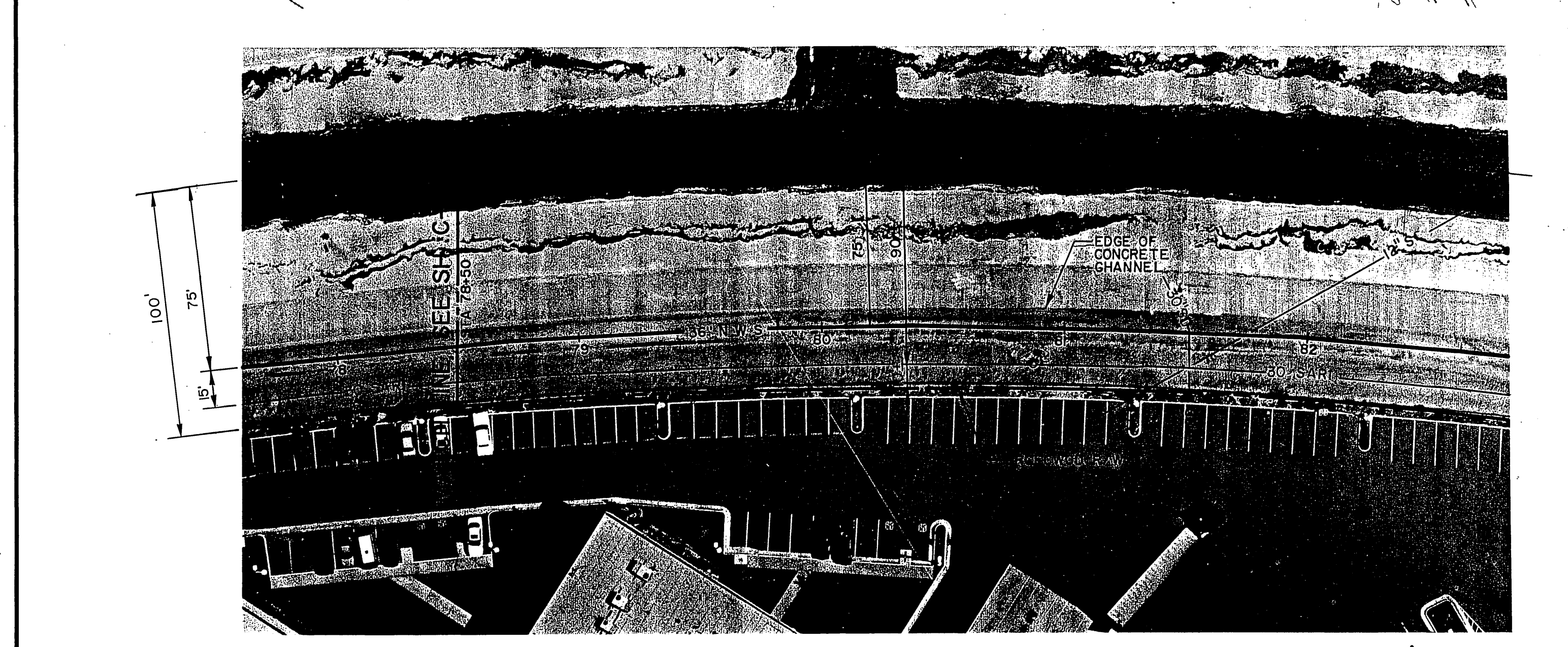
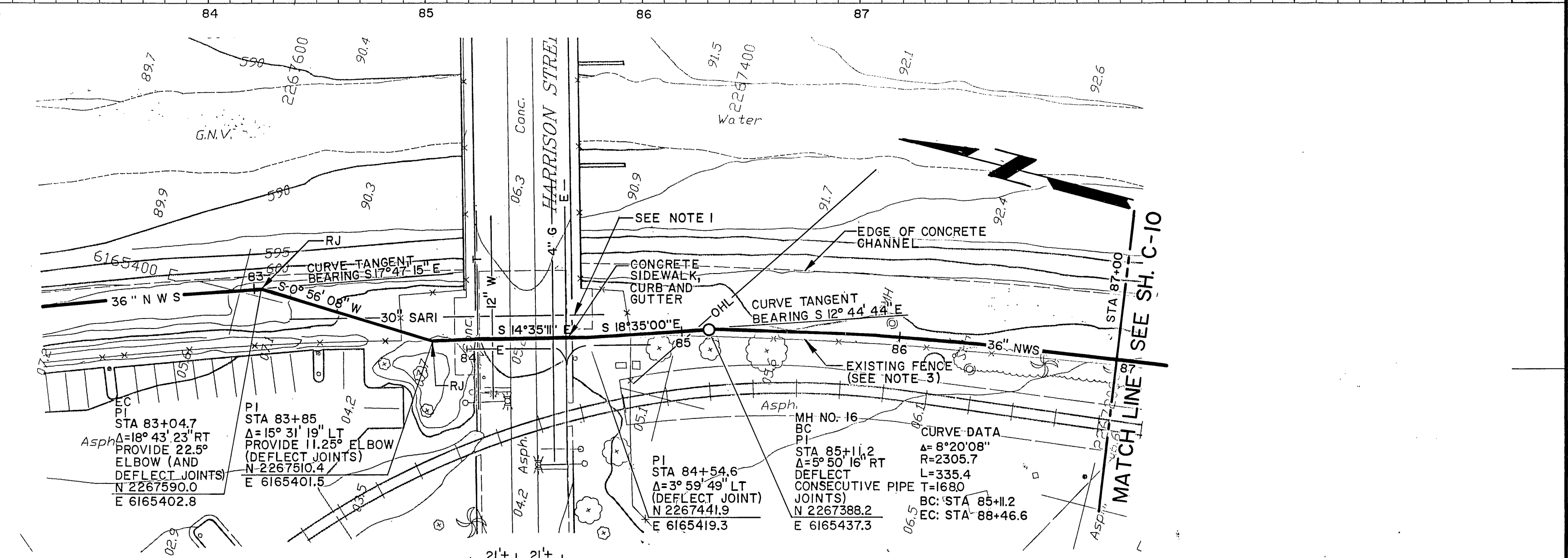
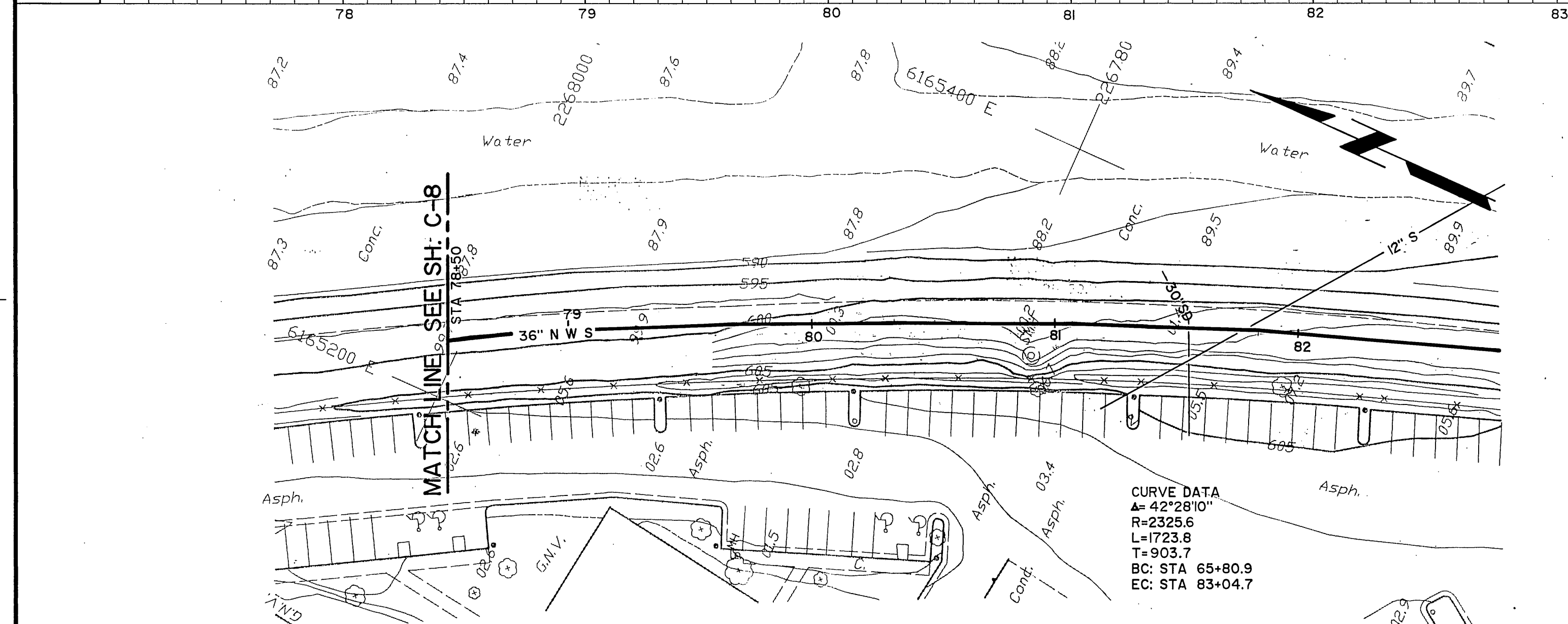
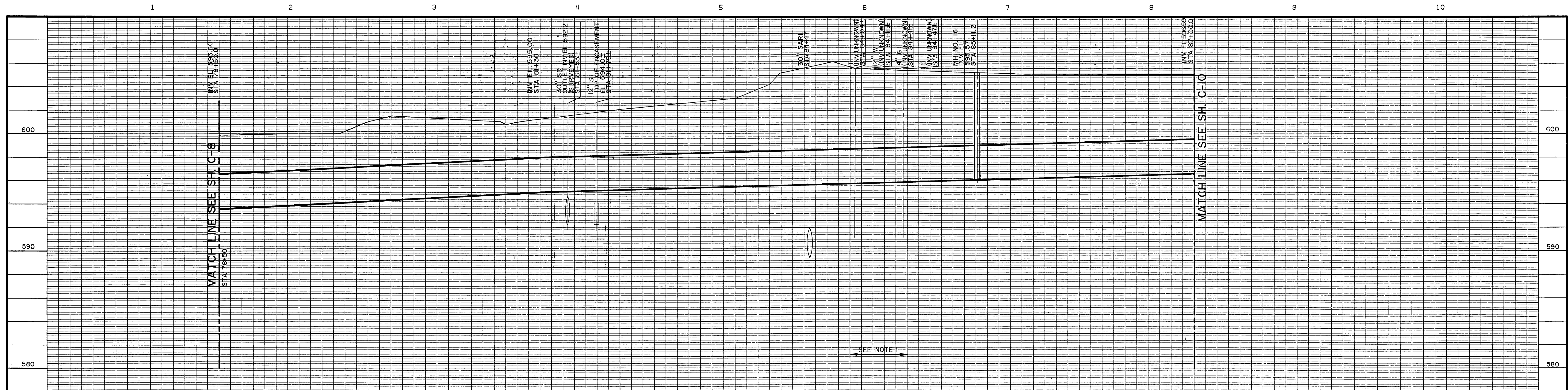


PROJECT NO.
 23068
 SCALE=
 HORIZ: 1" = 40'
 VERT: 1" = 4'

**WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM**
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE



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S-1711
 SHEET
 13 OF



- NOTES**
- UTILITIES CROSSED FROM STA 84+00 TO STA 84+50 HAVE UNKNOWN ELEVATIONS. CONTRACTOR SHALL POTHOLE ALL UTILITIES IN STREET.
 - DIMENSIONS NOT SHOWN FOR EASEMENT NOS. APN 119-300-079 AND APN 119-300-071 ARE PROVIDED IN SECTION 01500 OF THE SPECIFICATIONS.
 - REPLACE EXISTING FENCE TO THE STANDARDS OF RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT AND THE CITY OF CORONA.

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED: J.G., P.K.
 DETAILED: K.T., S.G.
 CHECKED: G.M.C.
 APPROVED: DJV
 DATE: 6-26-96

Black & Veatch
 Irvine, California

PROJECT NO. 23068
 SCALE: HORIZ: 1"=40'
 VERT: 1"=4'

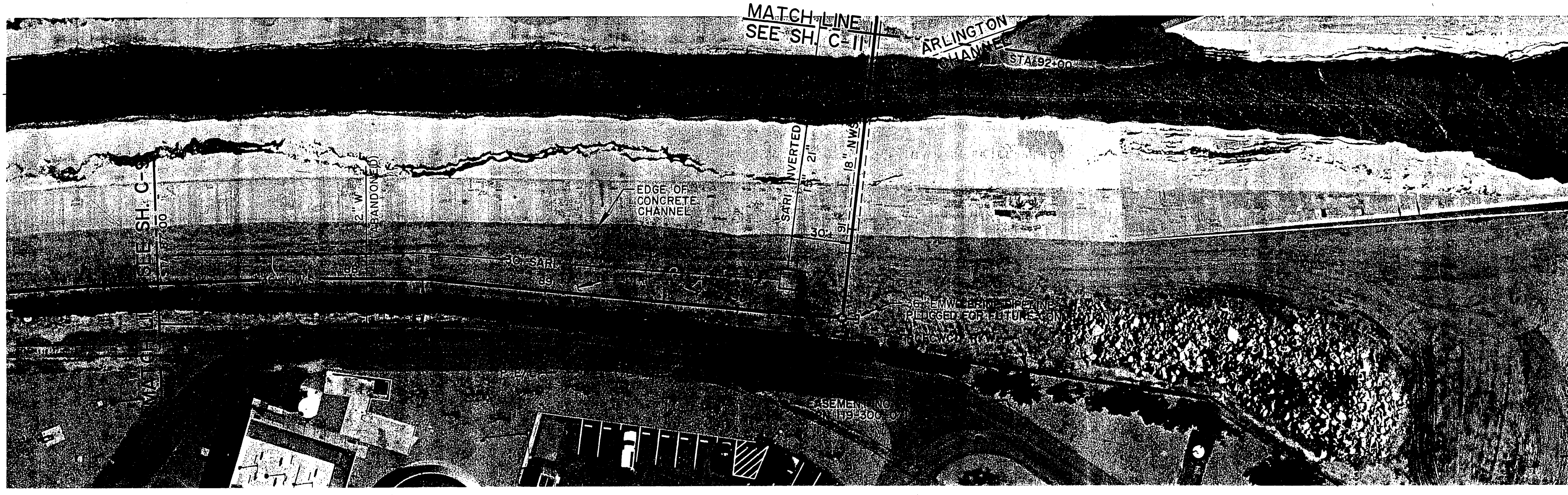
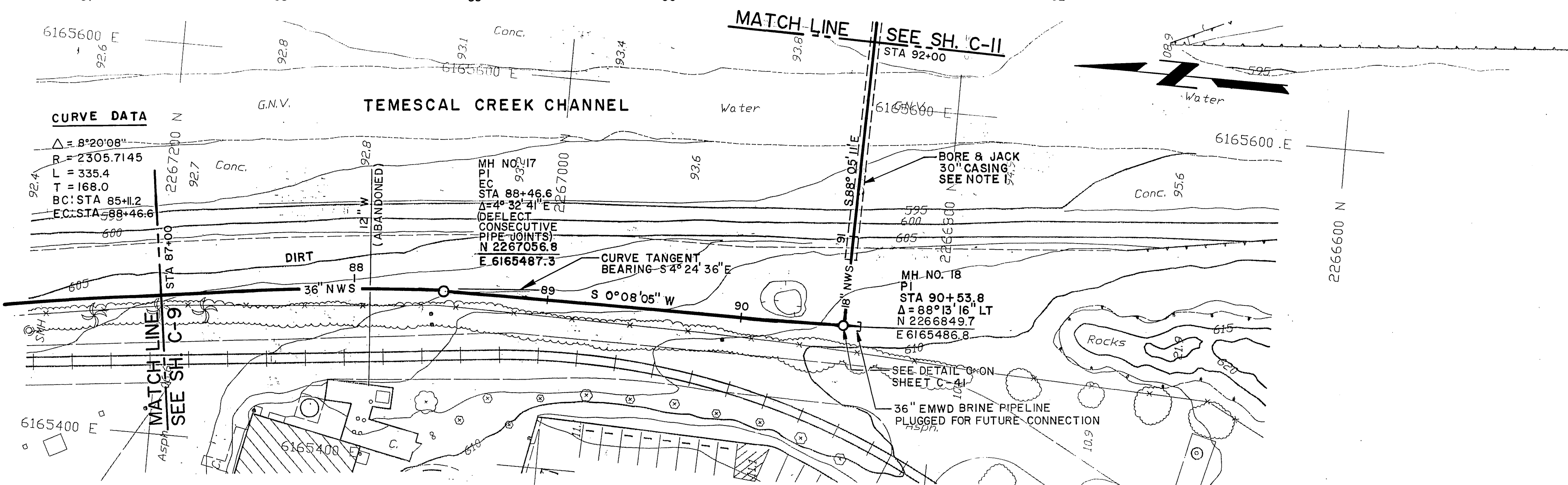
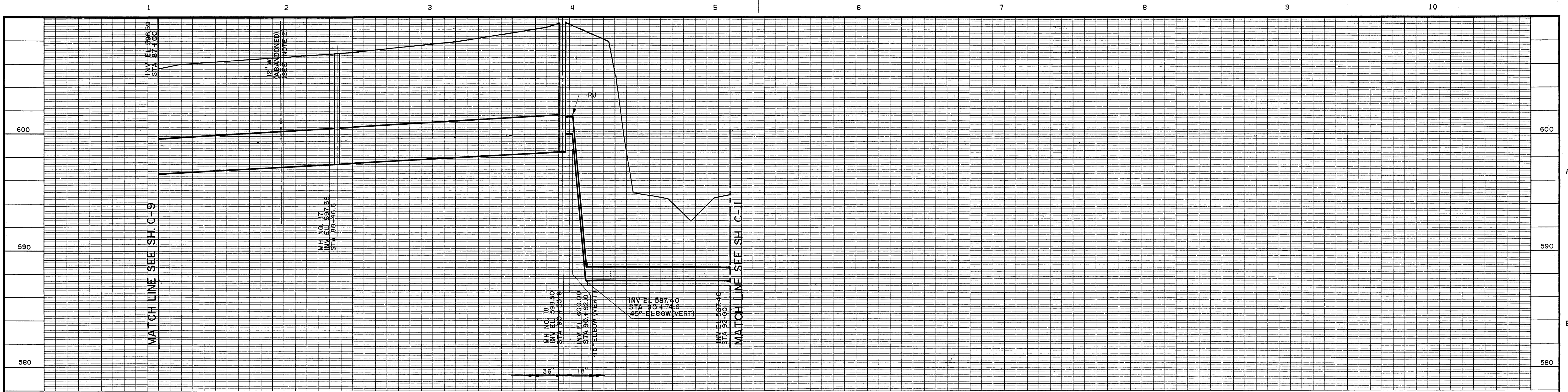
WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE

INDEXED 4-23-99 44

Approved: *[Signature]* 3-4-97
 By: Joseph R. Palencia
 City Engineer, Joseph Palencia
 R.C.E. No. 25267 (Exp. 12-31-97)

REGISTERED PROFESSIONAL ENGINEER
 DENTON VOS
 No. C49833
 EXP. 9-30-20
 CIVIL
 STATE OF CALIFORNIA

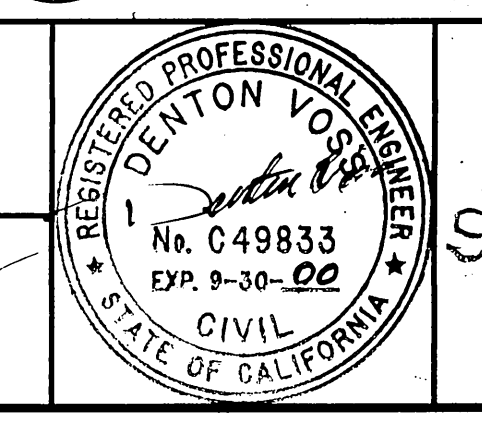
C-9
 S-1711
 SHEET 14 OF



- NOTES**
1. STA 90+80 TO 92+42 BORE & JACK 30" CASING. INSTALL 18" NWS IN CASING PER DETAIL A ON SHEET C-41.
 2. CONTRACTOR TO POTHOLE LINE AND VERIFY LINE IS ABANDONED BEFORE DEMOLISHING LINE.
 3. DIMENSIONS NOT SHOWN FOR EASEMENT NO. APN 119-300-071 ARE PROVIDED IN SECTION 01500 OF THE SPECIFICATIONS.
 4. REPLACE EXISTING FENCE TO THE STANDARDS OF RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT AND THE CITY OF CORONA.

INDEXED 4-23-99 GH

Approved: *[Signature]*
 By: Joseph R. Palencia
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)



**WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM**

**NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE**

PROJECT NO. 23068

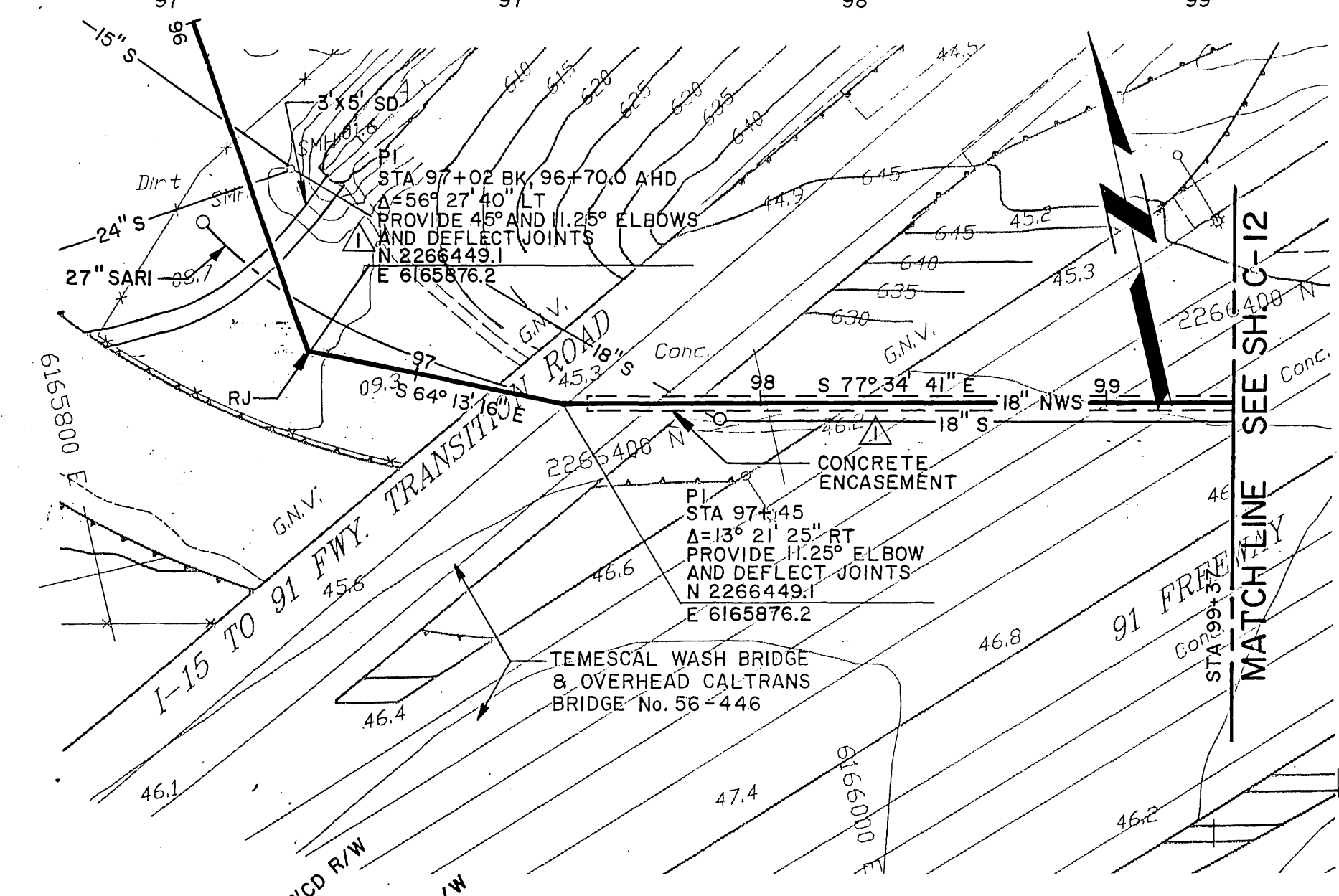
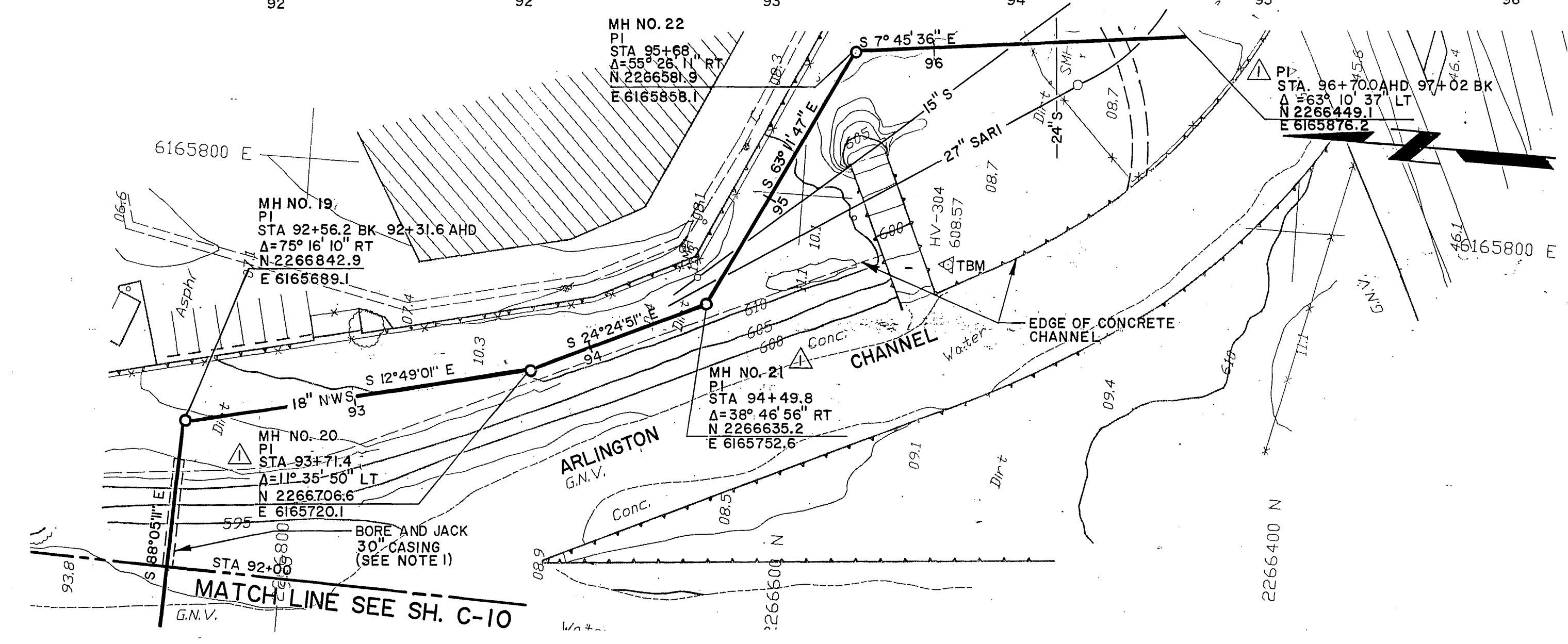
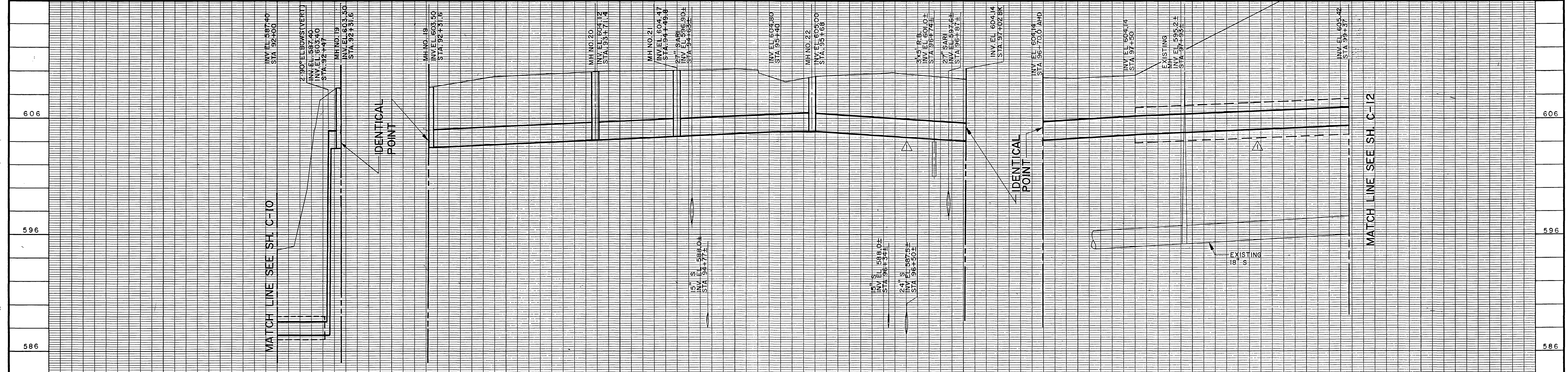
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 HORIZ: 1" = 40'
 VERT: 1" = 4'

C-10
S-1711
 SHEET 15 OF

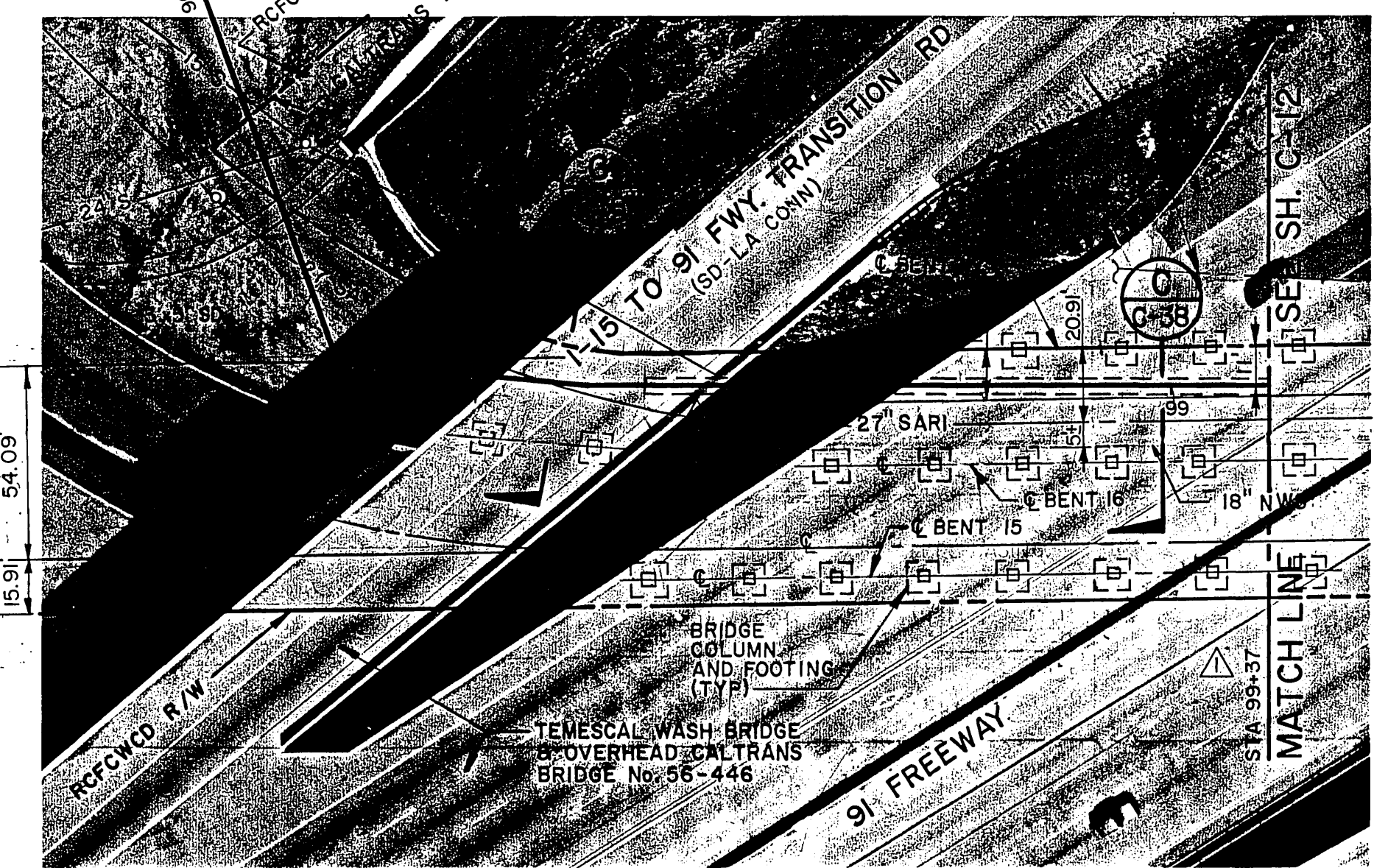
NO.	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED: J.G., P.K.
 DETAILED: K.T., S.G.
 CHECKED: G.M.C.
 APPROVED: *[Signature]*
 DATE: 6-26-96





- NOTES**
1. STA 90+80 TO 92+42 BORE & JACK 30" CASING. INSTALL 18" NWS IN CASING PER DETAIL A ON SHEET C-41.
 2. SEE DETAILS ON SHEET C-38 FOR ALIGNMENT OF PIPE ADJACENT TO FREEWAY BRIDGE FOOTINGS. CONTRACTOR SHALL FIELD VERIFY THAT ALIGNMENT CLEARS EXISTING STRUCTURES PER THE CLEARANCES NOTED.
 3. ENCASE NWS IN CONCRETE PER DETAIL D ON C-41 FROM STA 97+20 TO STA 97+50.
 4. CONTRACTOR SHALL BORE AND JACK 18" NWS IN 30" CASING FROM STA 90+50 TO DAYLIGHT PIT SHOWN ON SHEET C-12.



INDEXED 4-23-99 JH
 Approved: *Joseph Palencia*
 By: *Joseph Palencia*
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)

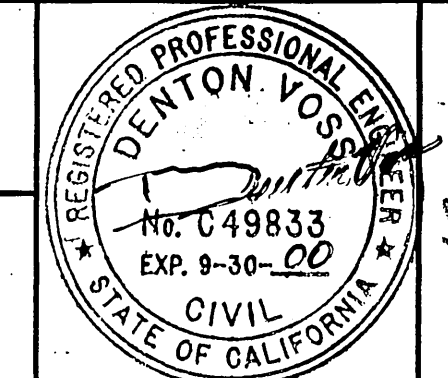
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP
12/13/96	ADDENDUM NO. 1		SW	JG	DV

DESIGNED: J.G., P.K.
 DETAILED: K.T., S.G.
 CHECKED: GMC
 APPROVED: *DN*
 DATE: 6-28-96

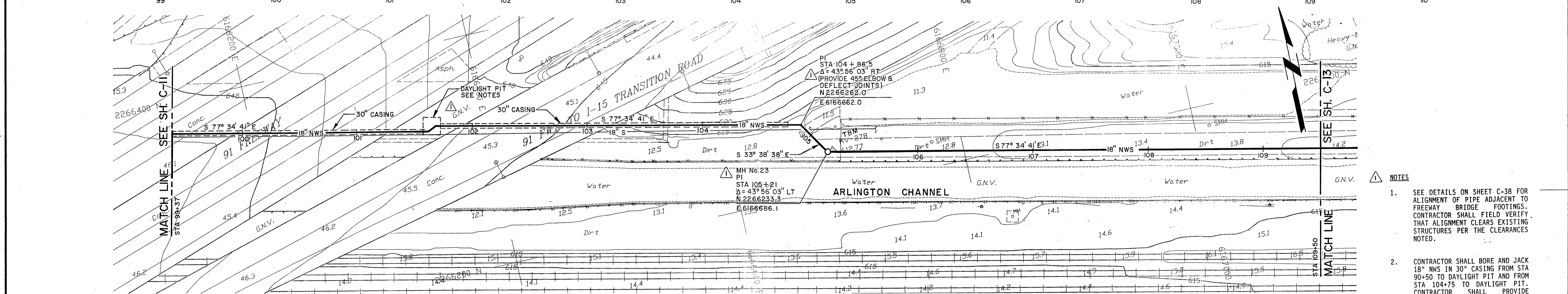
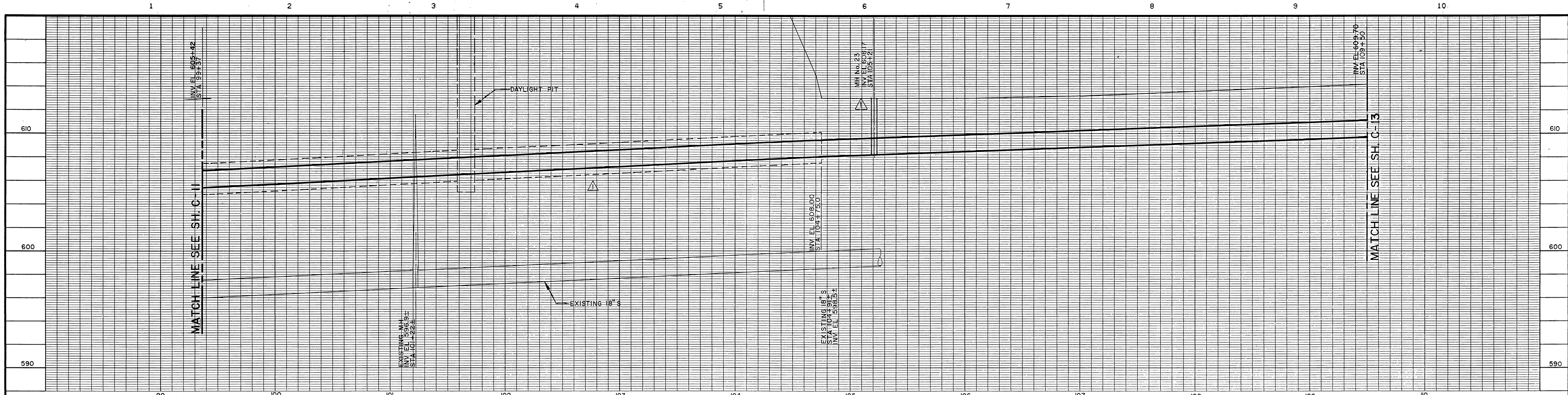


PROJECT NO.
 23068
 SCALE=
 HORIZ: 1"=40'
 VERT: 1"=4'

**WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM**
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE



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S-1711
 SHEET
 16 OF



- NOTES**
- SEE DETAILS ON SHEET C-38 FOR ALIGNMENT OF PIPE ADJACENT TO FREEWAY. BRIDGE FOOTINGS. CONTRACTOR SHALL FIELD VERIFY THAT ALIGNMENT CLEARS EXISTING STRUCTURES PER THE CLEARANCES NOTED.
 - CONTRACTOR SHALL BORE AND JACK 18" NWS IN 30" CASING FROM STA 90+50 TO DAYLIGHT PIT AND FROM STA 104+75 TO DAYLIGHT PIT. CONTRACTOR SHALL PROVIDE NECESSARY FITTINGS TO COMPLETE THE CONNECTION OF THE TWO BORED SEGMENTS AT THE DAYLIGHT PIT. THE DAYLIGHT PIT SHALL BE PROPERLY SHORED TO MAINTAIN THE INTEGRITY OF THE EMBANKMENT AND THE FREEWAY ABOVE. THE SHORING DESIGN WILL BE SUBJECT TO APPROVAL BY CALTRANS. AFTER THE PIPELINE HAS BEEN CONNECTED IN THE PIT, THE LINE SHALL BE ENCASED IN CONCRETE AND THE PIT BACKFILLED. THE BACKFILLING AND COMPACTION OF THE EMBANKMENT WILL BE SUBJECT TO APPROVAL BY CALTRANS. SPECIFICATIONS

DESIGNED	J.G., P.K.
DETAILED	K.T., S.G.
CHECKED	G.M.C.
APPROVED	DJV
DATE	6/22/96

2/13/96	ADDENDUM NO. 1	JG DV
DATE	REVISIONS AND RECORD OF ISSUE	NO. BY CK APP

PROJECT NO. 23068

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

Black & Veatch
Irvine, California

WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM

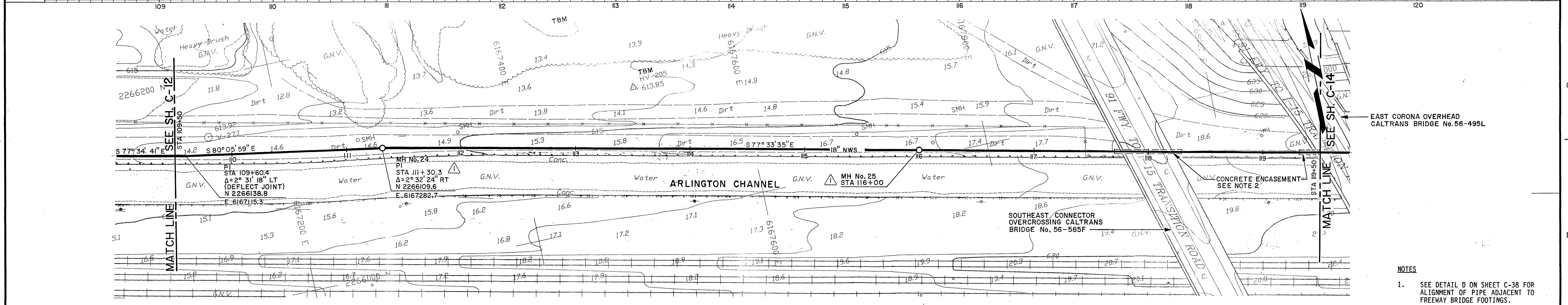
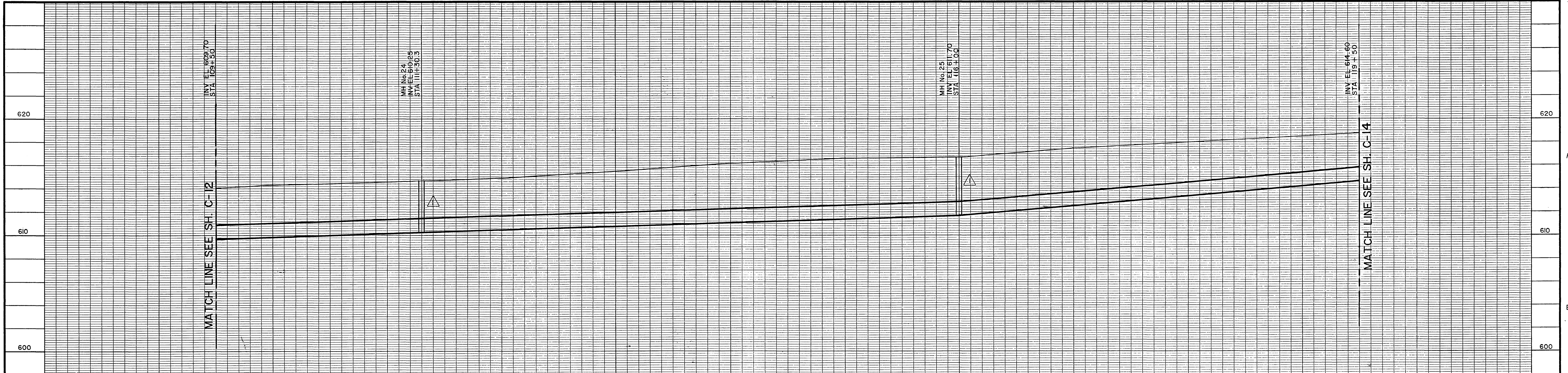
NONRECLAIMABLE WASTEWATER SEWER
PLAN AND PROFILE

INDEXED 423-99 44

Approved: *R. C. E.* 2-4-97
By: *Joseph R. Palencia*
City Engineer, Joseph Palencia
R. C. E. No. 25267 (Exp. 12-31-97)

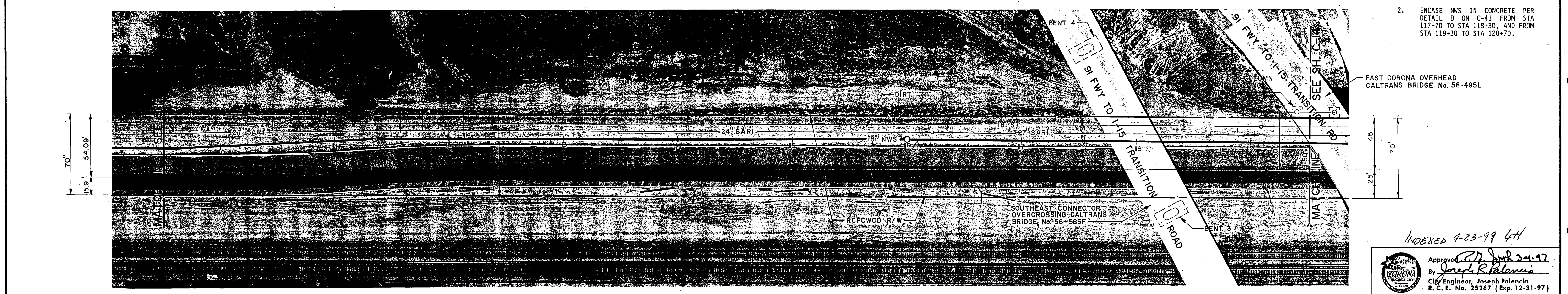
REGISTERED PROFESSIONAL ENGINEER
DENTON VO...
No. C49833
EXP. 9-30-00
CIVIL
STATE OF CALIFORNIA

C-12
S-1711
SHEET 17 OF



EAST CORONA OVERHEAD CALTRANS BRIDGE No. 56-495L

- NOTES**
- SEE DETAIL D ON SHEET C-38 FOR ALIGNMENT OF PIPE ADJACENT TO FREEWAY BRIDGE FOOTINGS.
 - ENCASE MWS IN CONCRETE PER DETAIL D ON C-41 FROM STA 117+70 TO STA 118+30, AND FROM STA 119+30 TO STA 120+70.



EAST CORONA OVERHEAD CALTRANS BRIDGE No. 56-495L

INDEXED 4-23-99 GH
 Approved: *[Signature]* 2/24/97
 By: *Joseph R. Palencia*
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)

NO.	BY	CHK	APP

DATE	REVISIONS AND RECORD OF ISSUE
2/16/96	ADDENDUM No. 1

DESIGNED: J.G., P.K.
 DETAILED: K.T., S.G.
 CHECKED: G.M.C.
 APPROVED: *[Signature]*
 DATE: 6-26-96

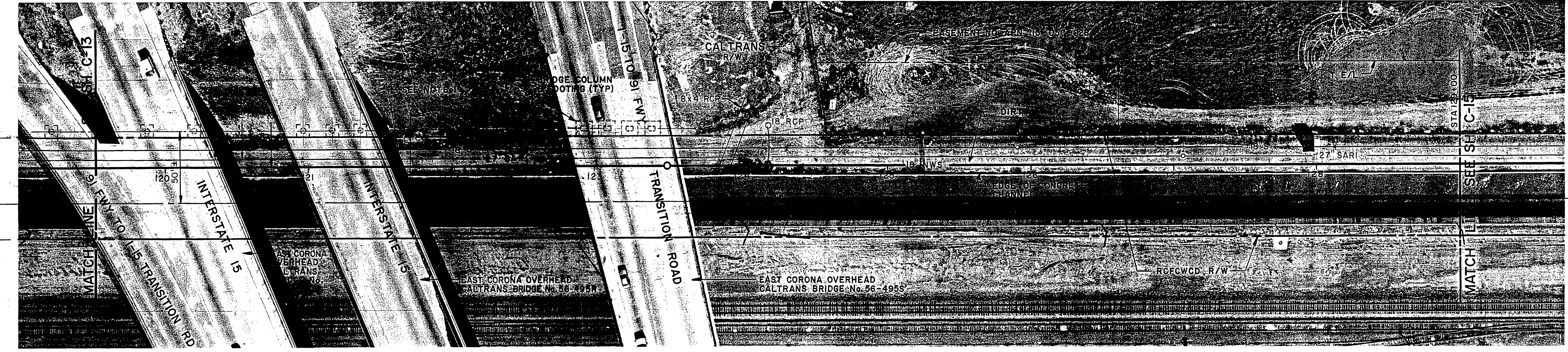
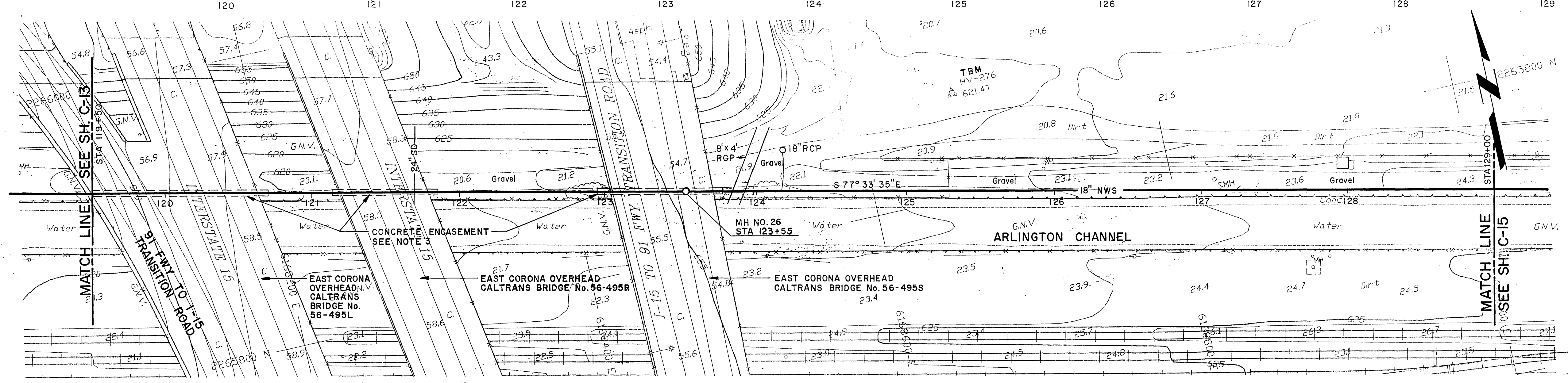
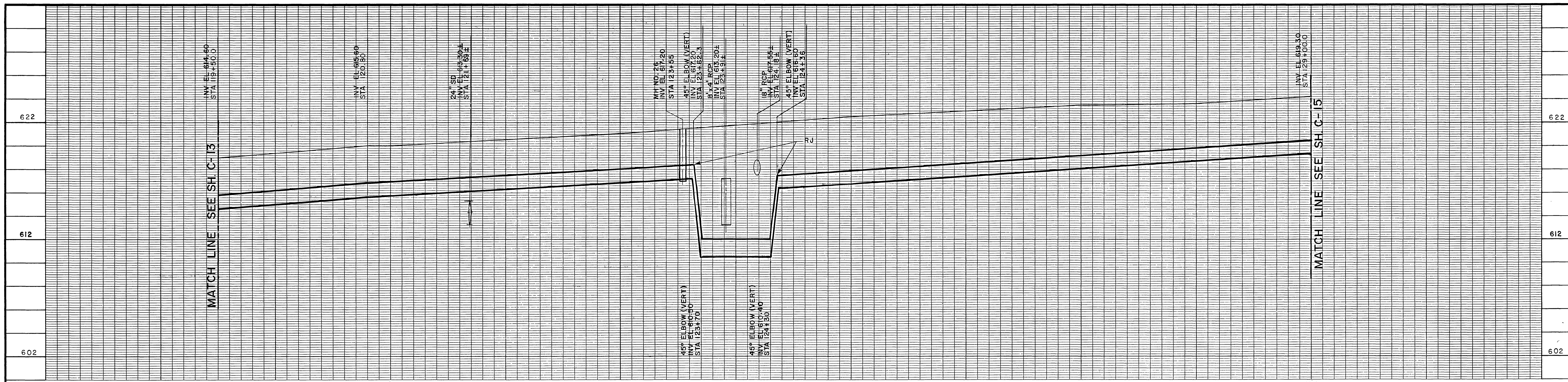


PROJECT NO.
23068
 SCALE:
 HORIZ: 1" = 40'
 VERT: 1" = 4'

**WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM**
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE



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S-1711
 SHEET
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- NOTES**
- SEE DETAIL D ON SHEET C-38 FOR ALIGNMENT OF PIPE ADJACENT TO FREEWAY BRIDGE FOOTINGS.
 - DIMENSIONS NOT SHOWN FOR EASEMENT NO. APN 115-050-028 ARE PROVIDED IN SECTION 01500 OF THE SPECIFICATIONS.
 - ENCASE NWS IN CONCRETE PER DETAIL D ON C-41 FROM STA 119+30 TO STA 120+70, FROM STA 121+10 TO STA 121+90, AND FROM STA 122+95 TO 123+80.

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED J.G., P.K.
 DETAILED K.T.
 CHECKED G.M.&
 APPROVED DJV
 DATE 6-20-96



PROJECT NO.
23068
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 HORIZ: 1"=40'
 VERT: 1"=4'

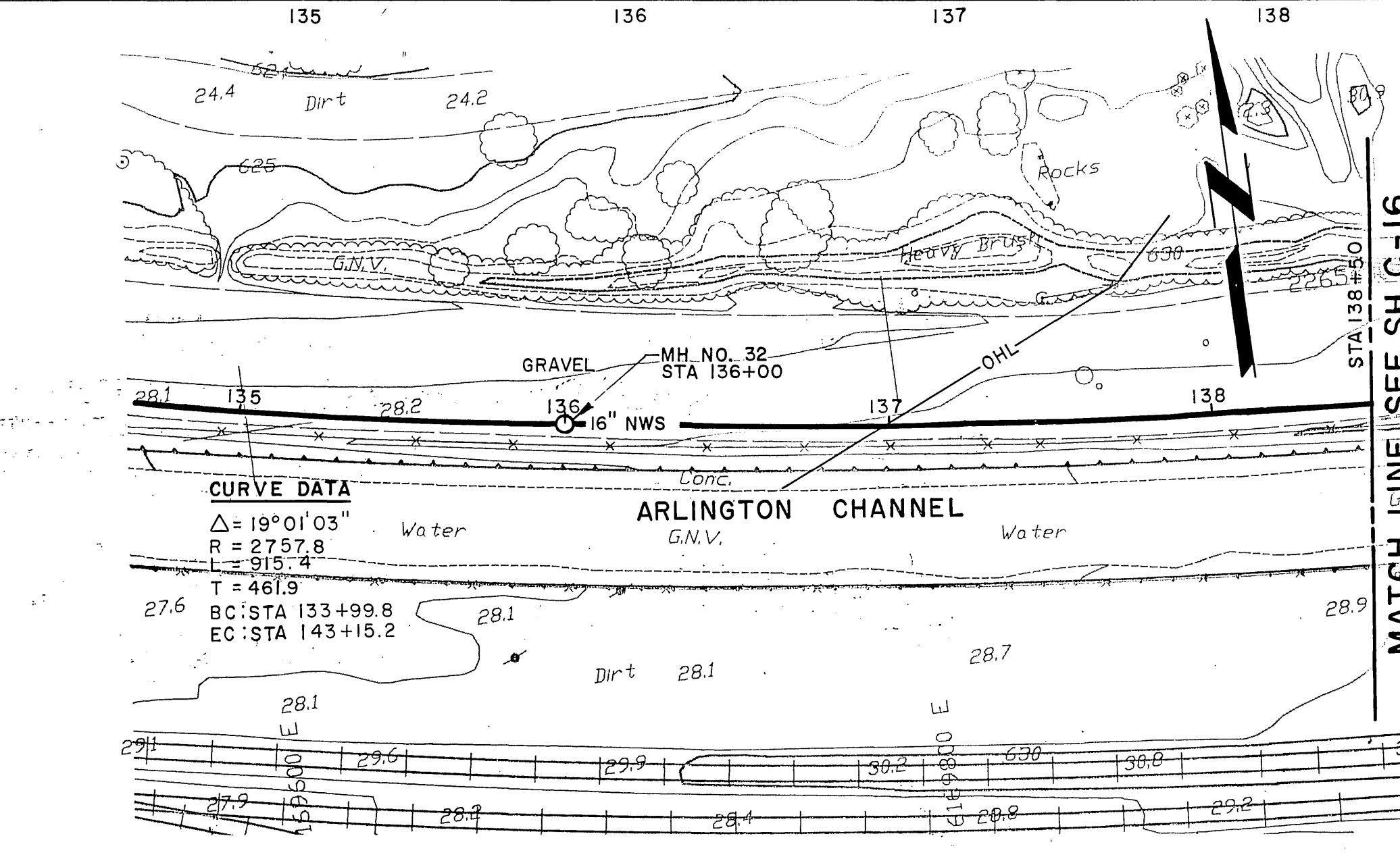
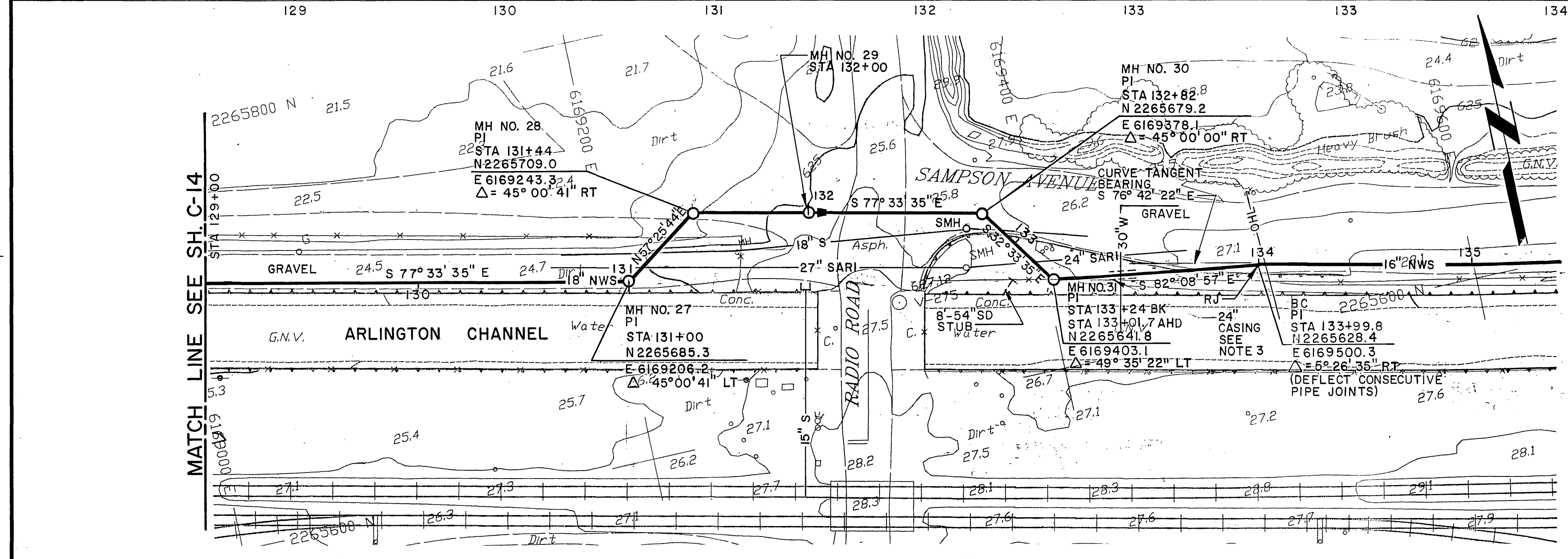
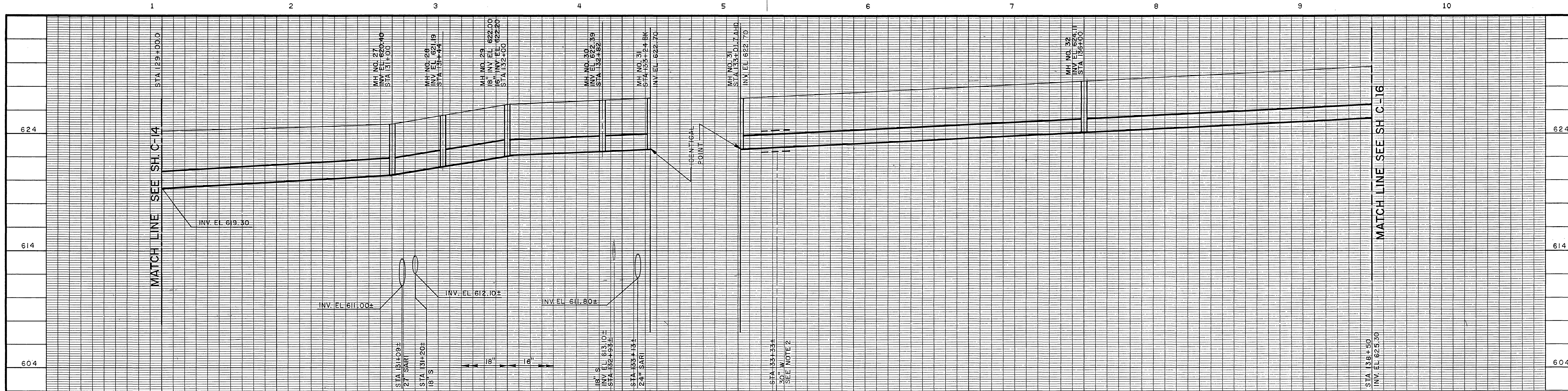
WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE

INDEXED 4-23-99 JH

Approved: [Signature] 2-24-97
 By: Joseph R. Palencia
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)

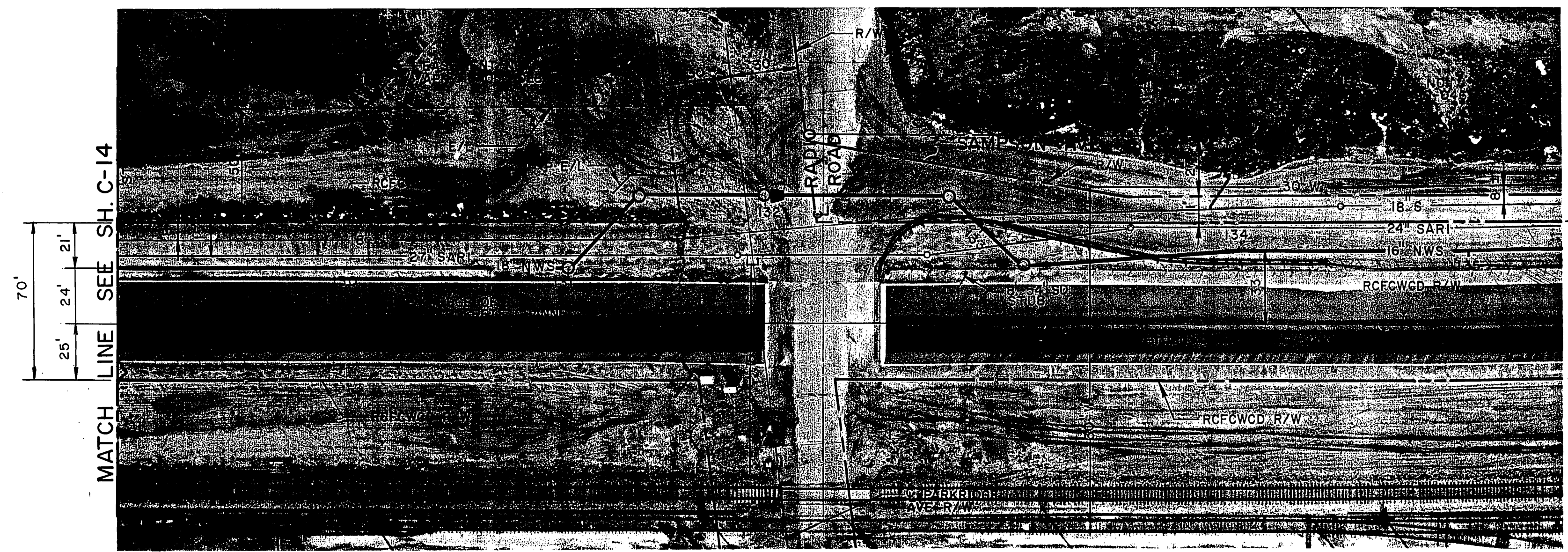
REGISTERED PROFESSIONAL ENGINEER
 DENTON VOS
 No. C49833
 EXP. 3-30-00
 CIVIL
 STATE OF CALIFORNIA

C-14
 S-1711
 SHEET
 19 OF



MATCH LINE SEE SH C-16

- NOTES**
1. STA 137+44 +/- TO STA 150+00 +/-: BLASTING OCCURRED DURING CONSTRUCTION OF SARI PIPELINE (INV EL FROM 615 TO 629, RESPECTIVELY).
 2. AFTER VERIFYING THE LOCATION AND ELEVATION OF THE 30-INCH WATER LINE, THE CONTRACTOR SHALL ADJUST THE GRADE OF THE NWS IF NECESSARY TO AVOID CONFLICTS WITH THE WATER LINE.
 3. STA 133+23 +/- TO STA 133+43 +/-: SPECIAL CONSTRUCTION REQUIRED FOR 10 FEET BEYOND WATER LINE CROSSING ON BOTH SIDES OF WATER LINE. CONTRACTOR CAN ENCASE OR PROVIDE OTHER MEANS PER DETAIL E ON SHEET C-38.
 4. DIMENSIONS NOT SHOWN FOR EASEMENT NOS. APN 115-050-028 AND APN 115-190-046 ARE PROVIDED IN SECTION 01500 OF THE SPECIFICATIONS.



MATCH LINE SEE SH C-16

INDEXED 4-23-99 L4
 Approved: *[Signature]* 2-24-97
 By: *[Signature]*
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)

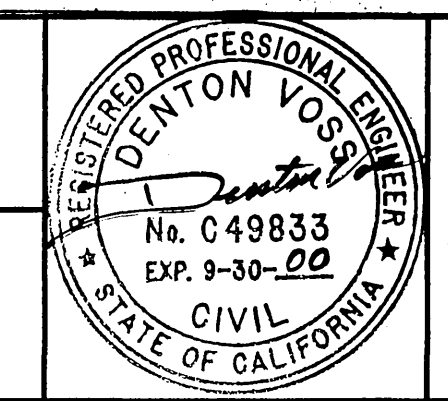
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED J.G., P.K.
 DETAILED K.T.
 CHECKED G.M.C.
 APPROVED T.D.V.
 DATE 6-26-96

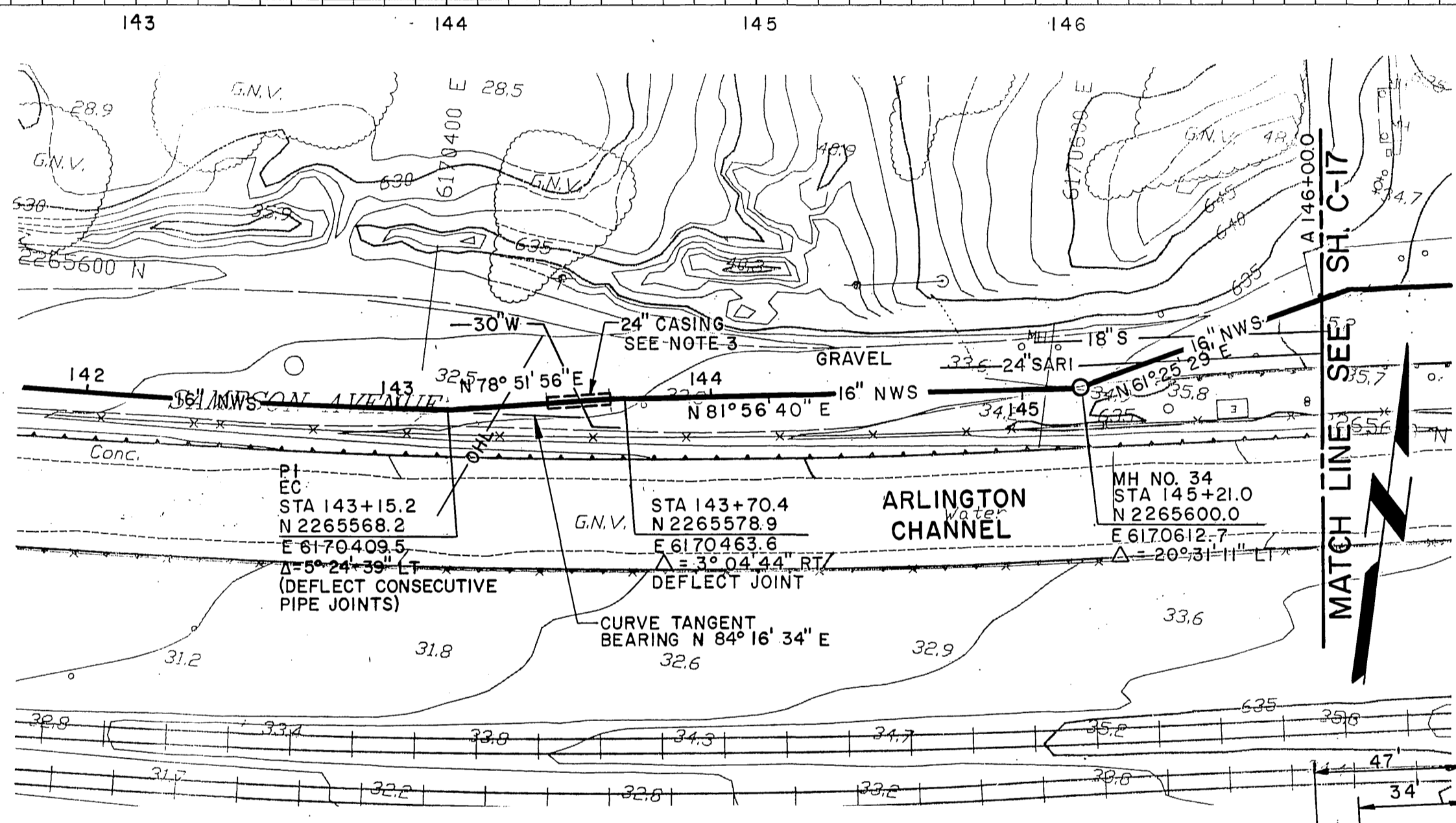
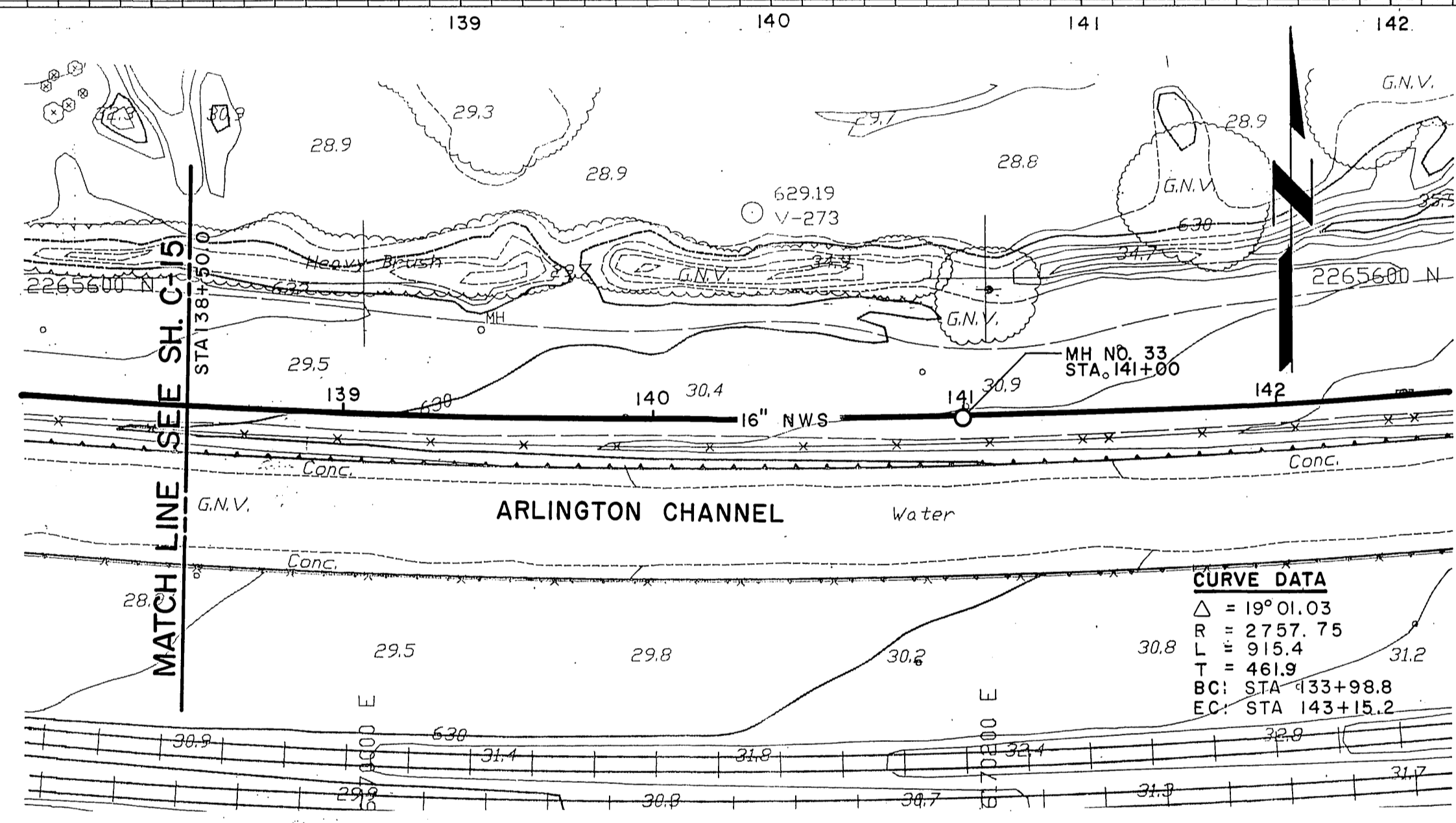
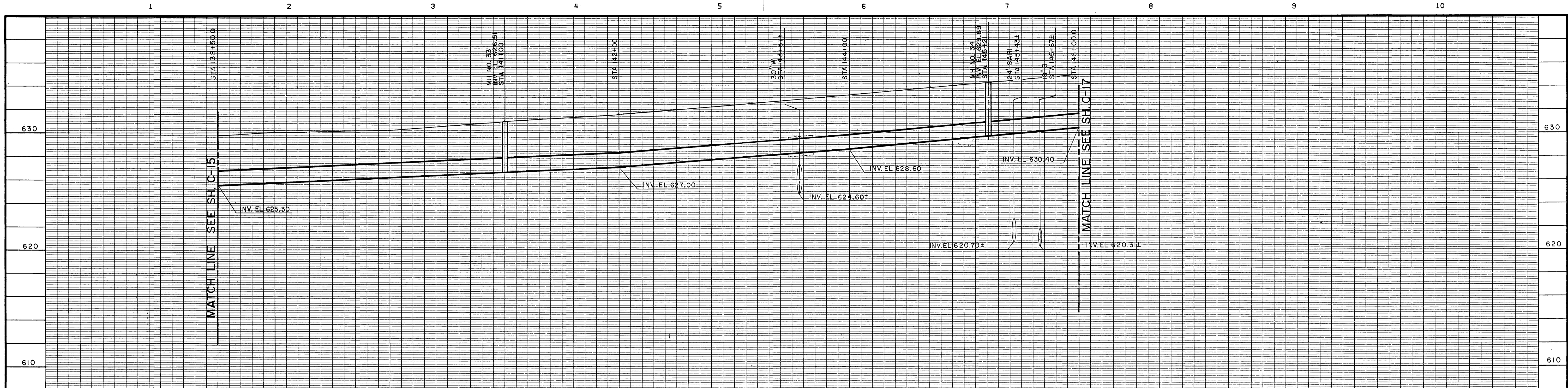


PROJECT NO.
 23068
 SCALE=
 HORIZ: 1" = 40'
 VERT: 1" = 4'

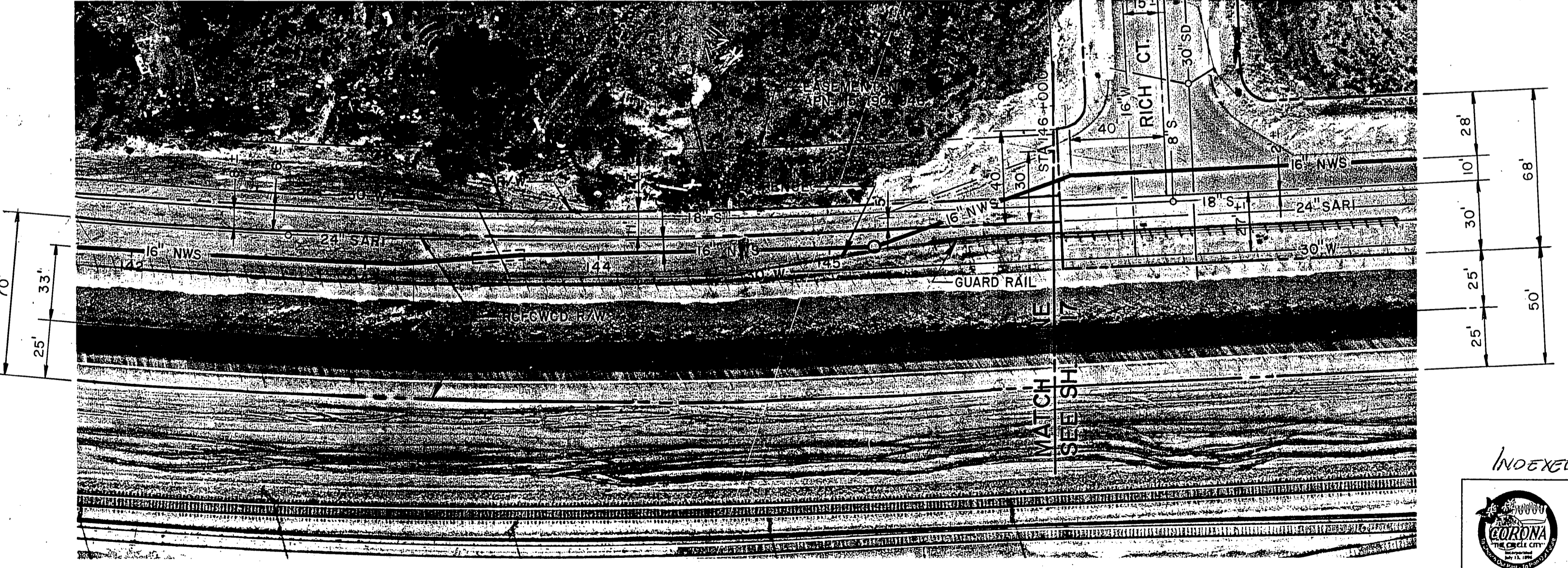
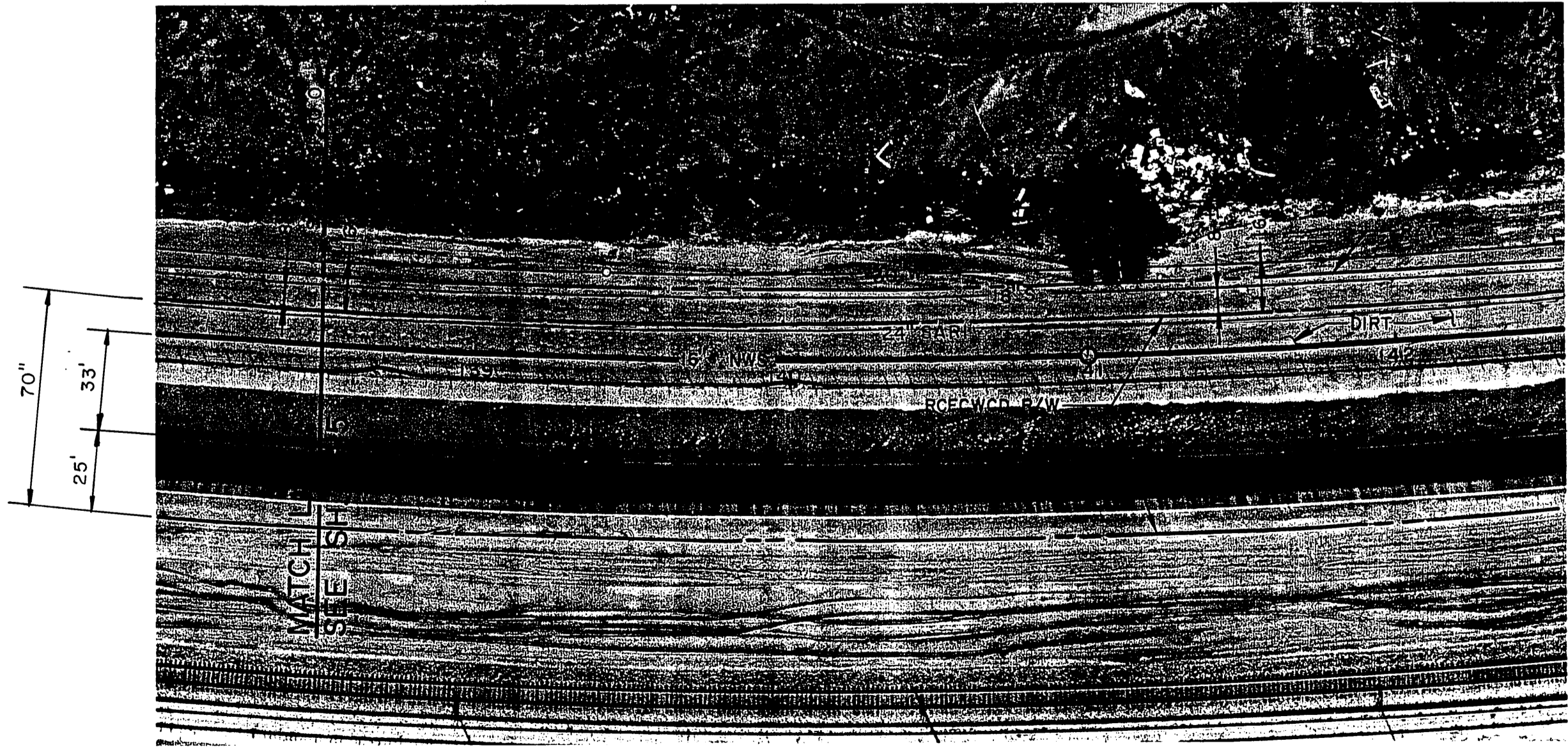
WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE



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 S-1711
 SHEET
 20 OF



- NOTES**
- STA 143+00 +/- TO STA 161+50 +/-: SARI PROJECT SOILS REPORT INDICATES GRANITE, BUT THE OCCURRENCE OF GRANITE MAY NOT BE LIMITED TO THIS AREA. REFER TO NINYO & MOORE GEOTECHNICAL EVALUATION OF PROPOSED WRCRW PROJECT.
 - STA 137+44 +/- TO STA 150+00 +/-: BLASTING OCCURRED DURING CONSTRUCTION OF SARI PIPELINE (INV EL FROM 615 TO 629, RESPECTIVELY)
 - STA 143+47 +/- TO STA 143+67 +/-: SPECIAL CONSTRUCTION REQUIRED FOR 10 FEET BEYOND WATER LINE CROSSING ON BOTH SIDES OF WATER LINE. CONTRACTOR CAN ENCASE OR PROVIDE OTHER MEANS PER DETAIL E ON SHEET C-38.
 - DIMENSIONS NOT SHOWN FOR EASEMENT NO. APN 115-190-046 ARE PROVIDED IN SECTION 01500 OF THE SPECIFICATIONS.



INDEXED 4-23-99 JH
 Approved: *Joseph R. Palencia*
 City Engineer, Joseph Palencia
 R.C.E. No. 25267 (Exp. 12-31-97)

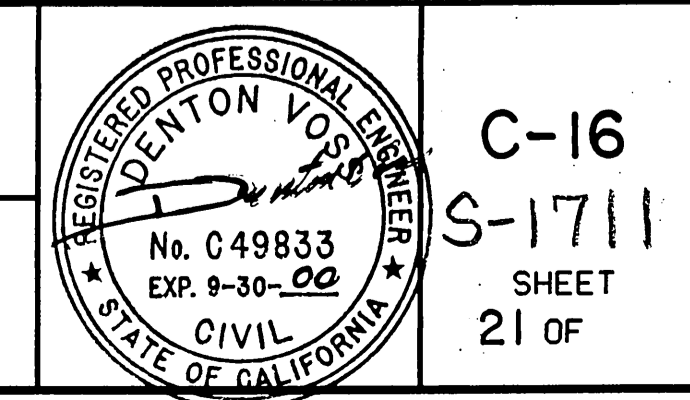
NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

DESIGNED: J.G., P.K.
 DETAILED: K.T.
 CHECKED: G.M.C.
 APPROVED: DJV
 DATE: 6-26-96

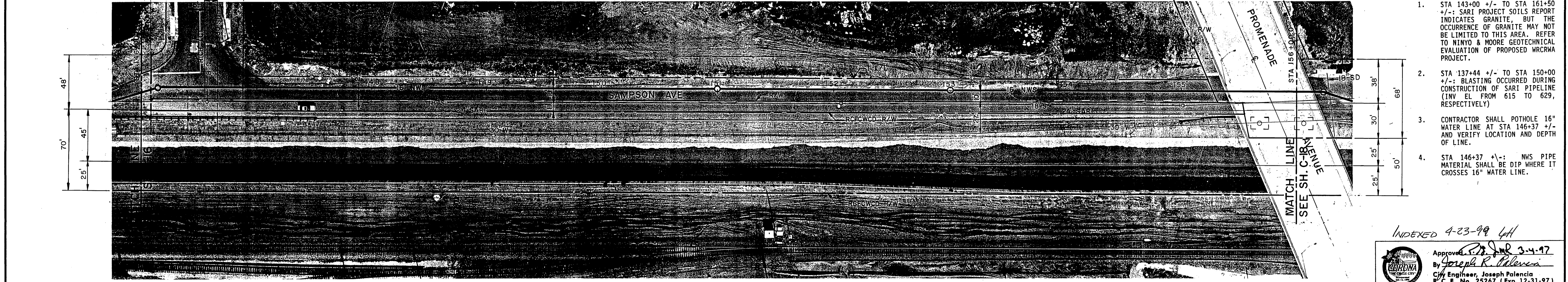
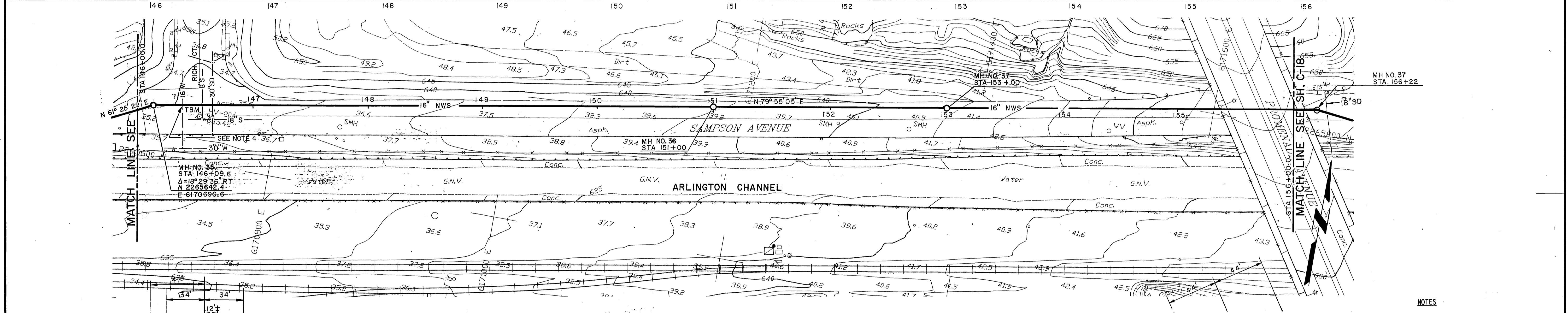
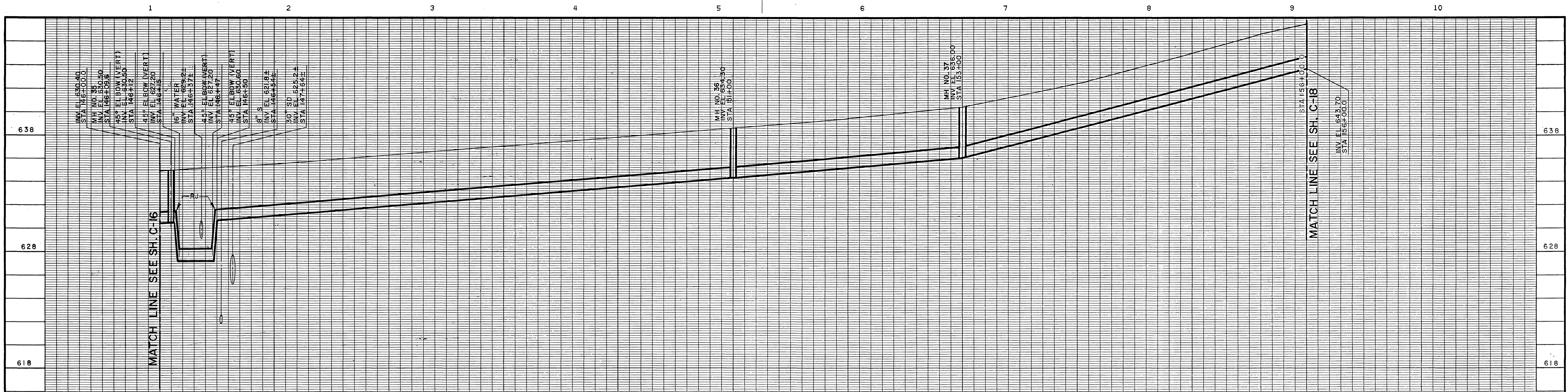


PROJECT NO. 23068
 SCALE =
 HORIZ: 1" = 40'
 VERT: 1" = 4'

**WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM**
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE



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 S-1711
 SHEET
 21 OF



- NOTES**
1. STA 143+00 +/- TO STA 161+50 +/-: SARI PROJECT SOILS REPORT INDICATES GRANITE, BUT THE OCCURRENCE OF GRANITE MAY NOT BE LIMITED TO THIS AREA. REFER TO NINYO & MOORE GEOTECHNICAL EVALUATION OF PROPOSED WRCRWA PROJECT.
 2. STA 137+44 +/- TO STA 150+00 +/-: BLASTING OCCURRED DURING CONSTRUCTION OF SARI PIPELINE (INV EL FROM 615 TO 629, RESPECTIVELY)
 3. CONTRACTOR SHALL POTHOLE 16" WATER LINE AT STA 146+37 +/- AND VERIFY LOCATION AND DEPTH OF LINE.
 4. STA 146+37 +/-: NWS PIPE MATERIAL SHALL BE DIP WHERE IT CROSSES 16" WATER LINE.

INDEXED 4-23-99 LHM

Approved: *[Signature]* 3-4-97
 By: Joseph R. Palencia
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)

REGISTERED PROFESSIONAL ENGINEER
 DENTON VOS
 No. C49833
 EXP. 9-30-00
 CIVIL
 STATE OF CALIFORNIA

C-17
 S-1711
 SHEET
 22 OF

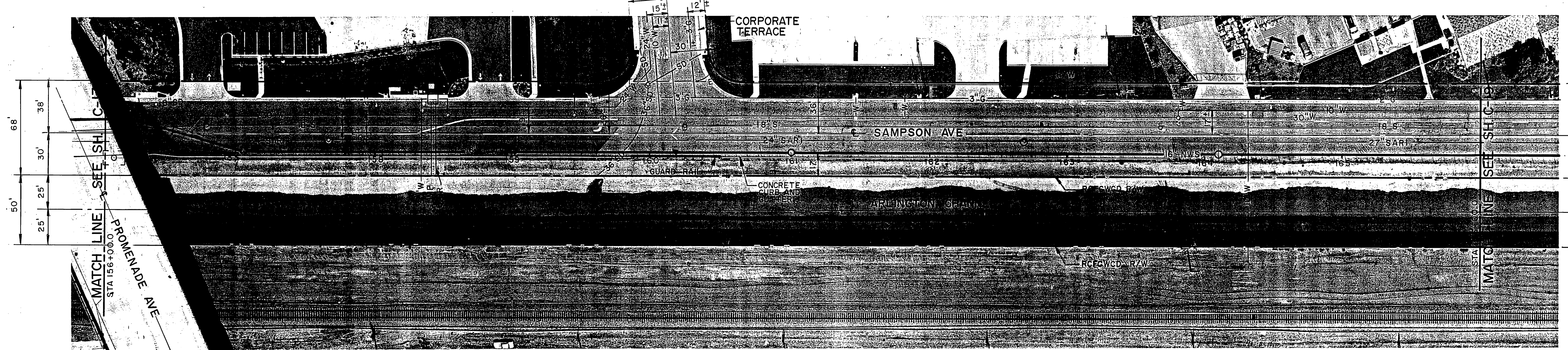
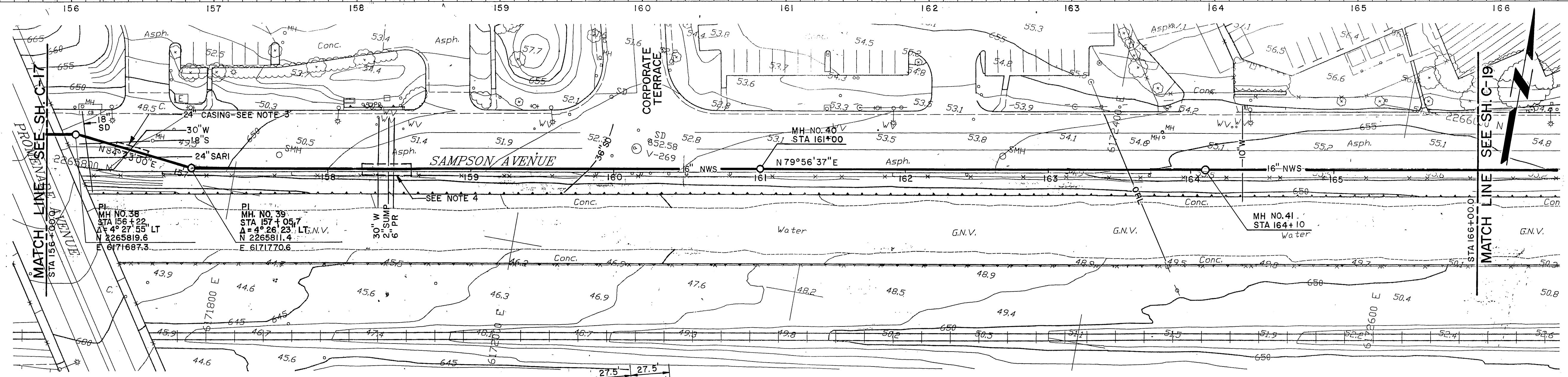
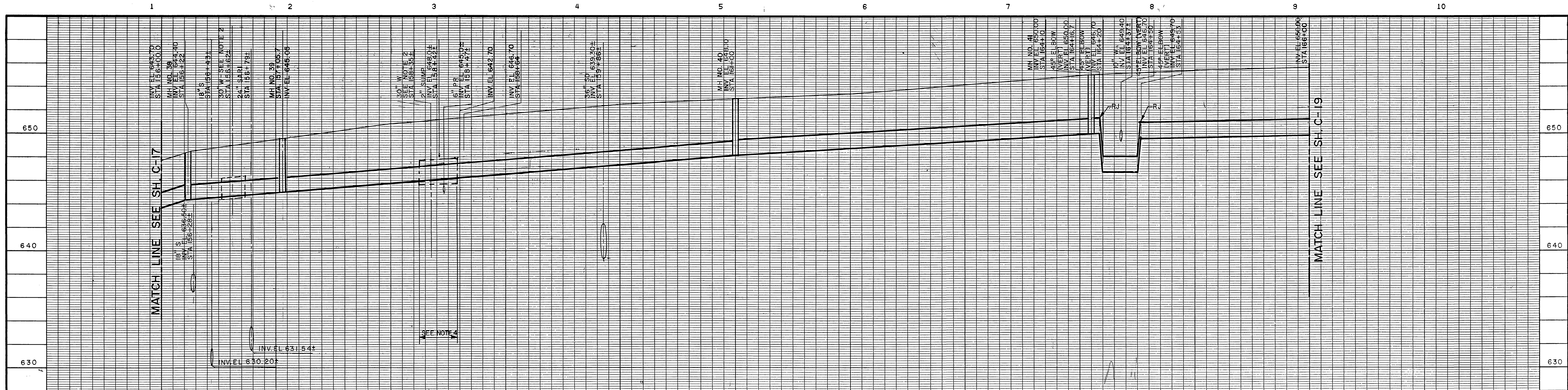
WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE



PROJECT NO.
23068
SCALE=
HORIZ: 1" = 40'
VERT: 1" = 4'

DESIGNED J.G., P.K.
 DETAILED K.T.
 CHECKED G.M.C.
 APPROVED DJV
 DATE 6-26-96

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE



- NOTES**
- STA 143+00 +/- TO STA 161+50 +/-: SARI PROJECT SOILS REPORT INDICATES GRANITE, BUT THE OCCURRENCE OF GRANITE MAY NOT BE LIMITED TO THIS AREA. REFER TO NINYO & MOORE GEOTECHNICAL EVALUATION OF PROPOSED WRCWA PROJECT.
 - AFTER VERIFYING THE LOCATION AND ELEVATION OF THE 30-INCH WATER LINES AT STA 156+62/- AND 158+35/-, THE CONTRACTOR SHALL ADJUST THE GRADE OF THE NWS IF NECESSARY TO AVOID CONFLICTS WITH THE WATER LINES.
 - STA 156+52 +/- TO STA 156+72 +/-: SPECIAL CONSTRUCTION REQUIRED FOR 10 FEET BEYOND WATER LINE CROSSING ON BOTH SIDES OF WATER LINE. CONTRACTOR CAN ENCASE OR PROVIDE OTHER MEANS PER DETAIL E ON SHEET C-38.
 - ENCASE THE PIPE IN CONCRETE FROM STA 158+25 TO STA 158+57.

INDEXED 4-23-99 *gh*
 Approved: *[Signature]* 3-4-97
 By: *Joseph R. Palencia*
 City Engineer, Joseph Palencia
 R.C.E. No. 25267 (Exp. 12-31-97)

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED: J.G., P.K.
 DETAILED: K.T.
 CHECKED: S.M.C.
 APPROVED: *[Signature]*
 DATE: 6-16-90

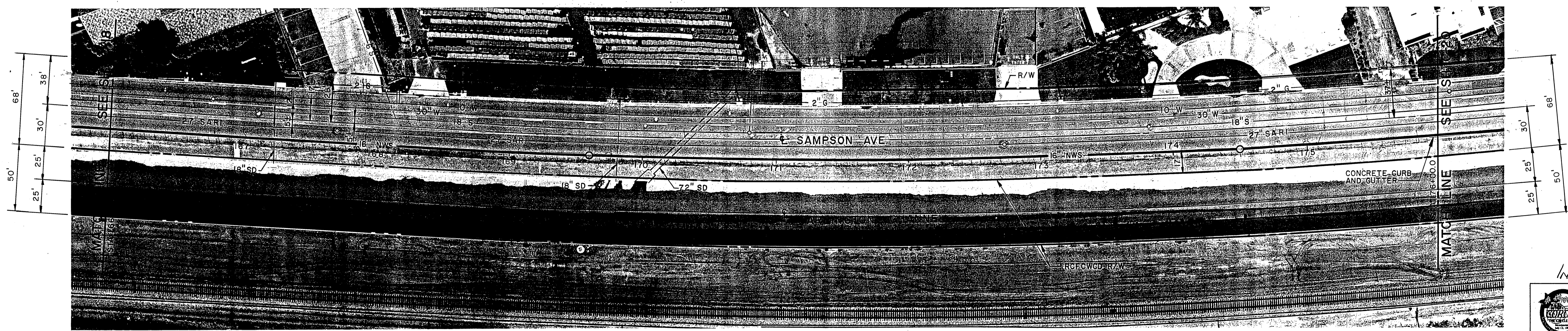
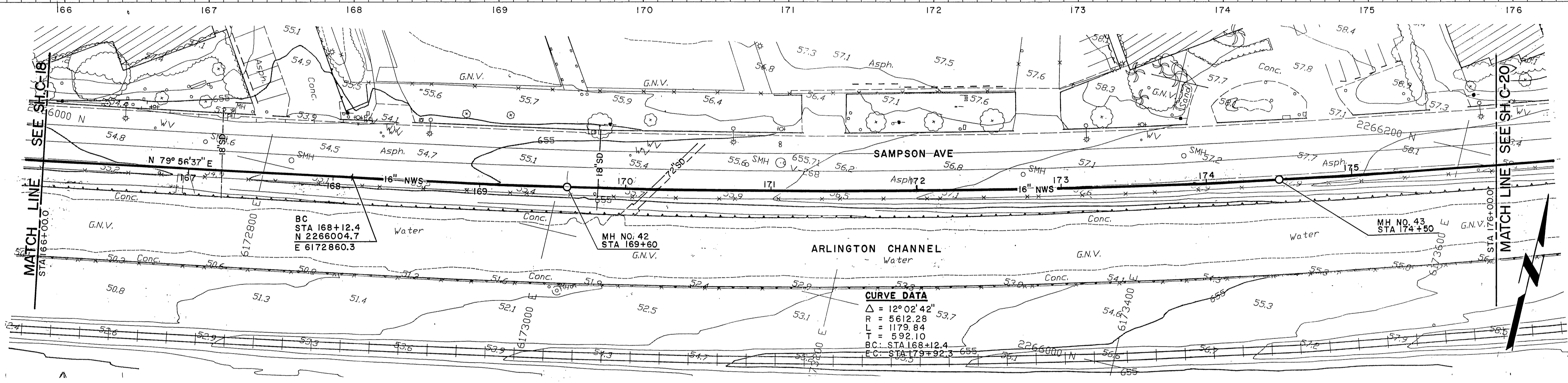
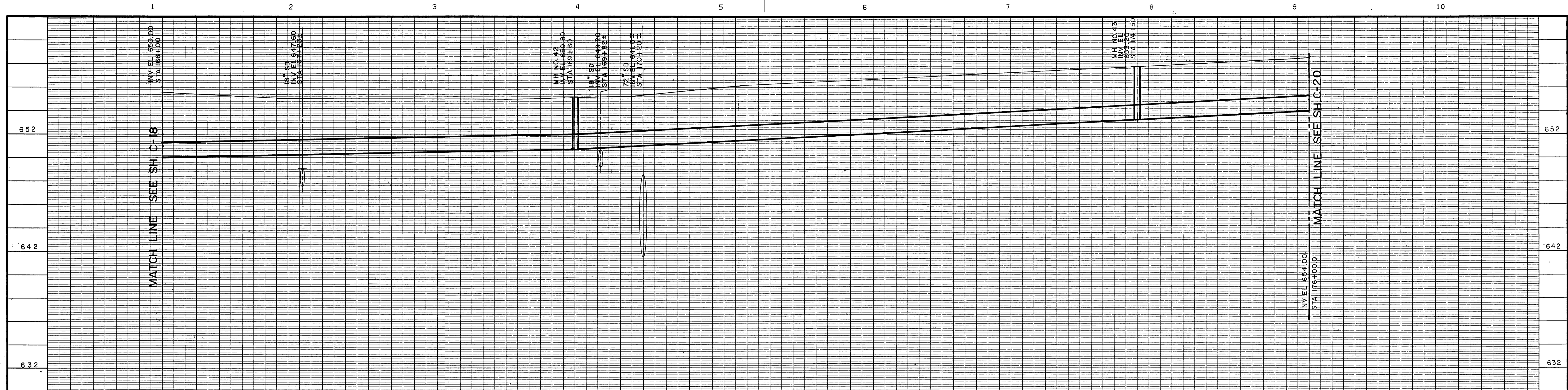


PROJECT NO.
23068
 SCALE=
 HORIZ 1" = 40'
 VERT 1" = 4'

WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE

REGISTERED PROFESSIONAL ENGINEER
 DENTON VOORHEES
 No. C49833
 EXPIRES 9-30-20
 CIVIL
 STATE OF CALIFORNIA

C-18
 S-1711
 SHEET
 23 OF



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

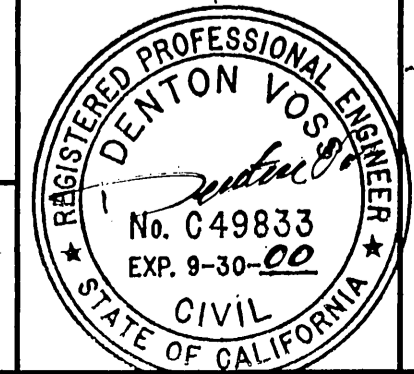
DESIGNED J.G., P.K.
 DETAILED K.T.
 CHECKED G.M.C.
 APPROVED *[Signature]*
 DATE 6-26-96



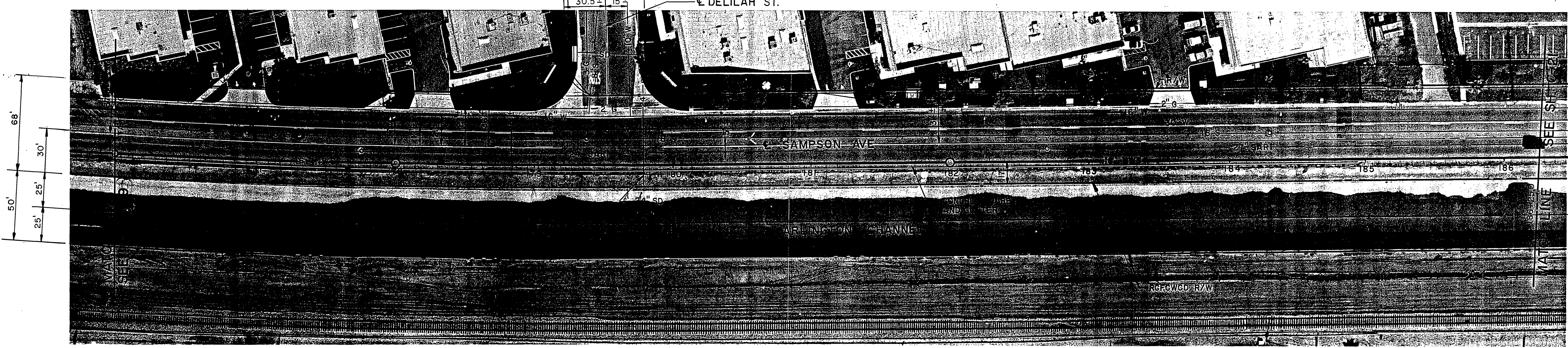
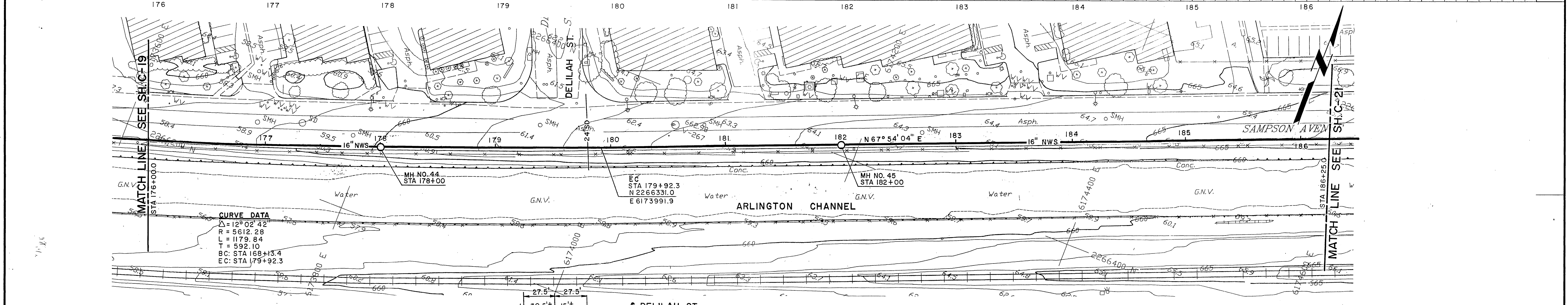
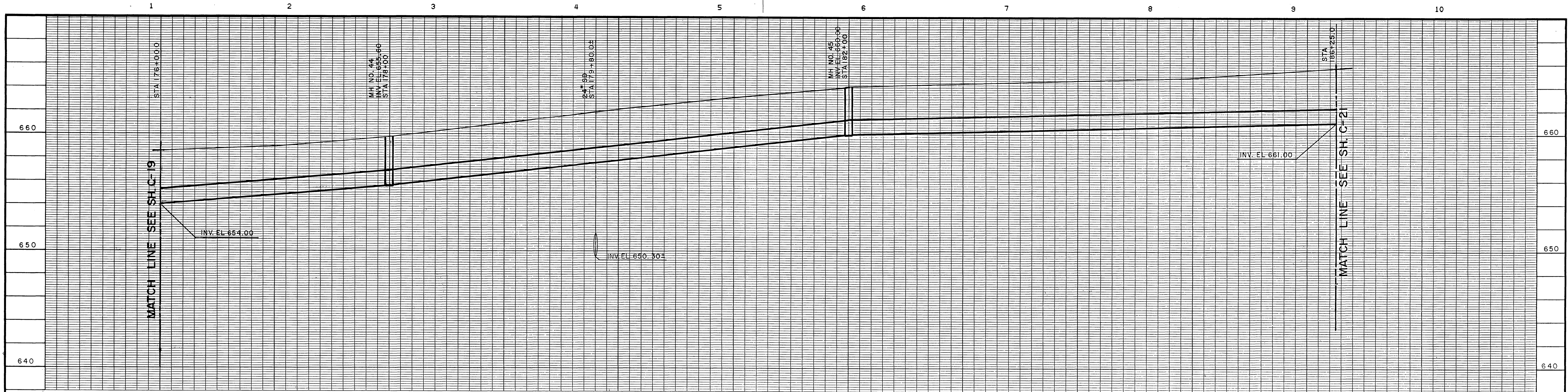
PROJECT NO. 23068
 SCALE = HORIZ: 1" = 40'
 VERT: 1" = 4'

**WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM**
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE

INDEXED 4-23-99 4H
 Approved *[Signature]* 3-4-97
 By *[Signature]*
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)



C-19
 S-1711
 SHEET
 24 OF



INDEXED 9-23-99 *gh*

Approved: *Joseph R. Valencia*
 By: *Joseph R. Valencia*
 City Engineer, Joseph Valencia
 R.C.E. No. 25267 (Exp. 12-31-97)

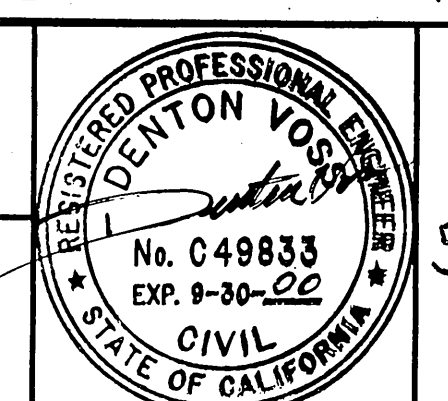
NO.	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED: J.G., P.K.
 DETAILED: K.T.
 CHECKED: GMC
 APPROVED: *JJV*
 DATE: 6-26-96

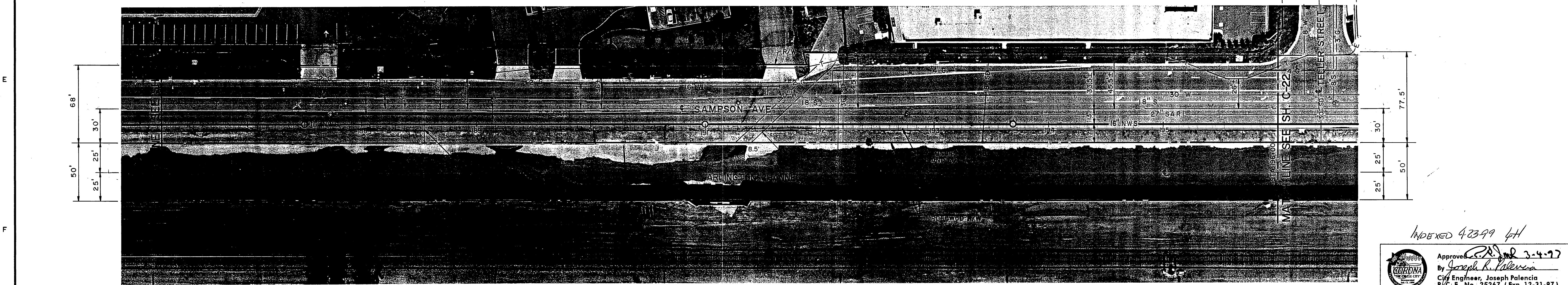
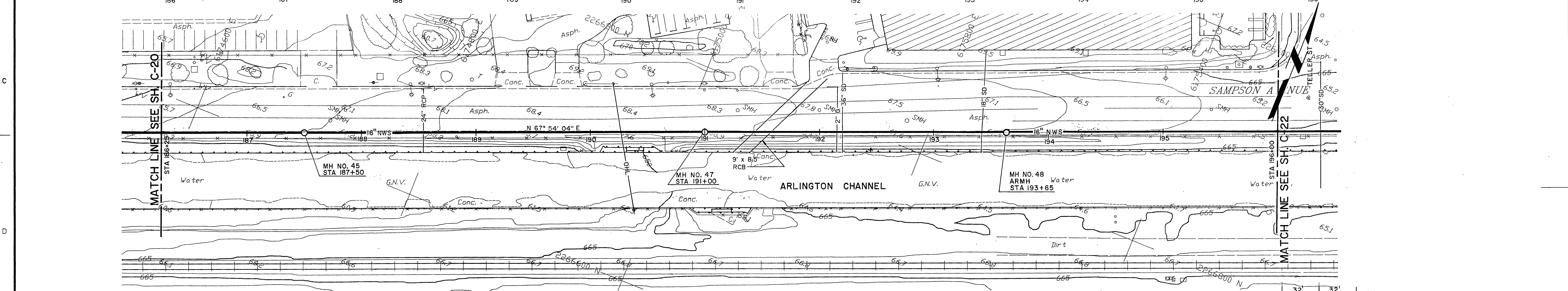
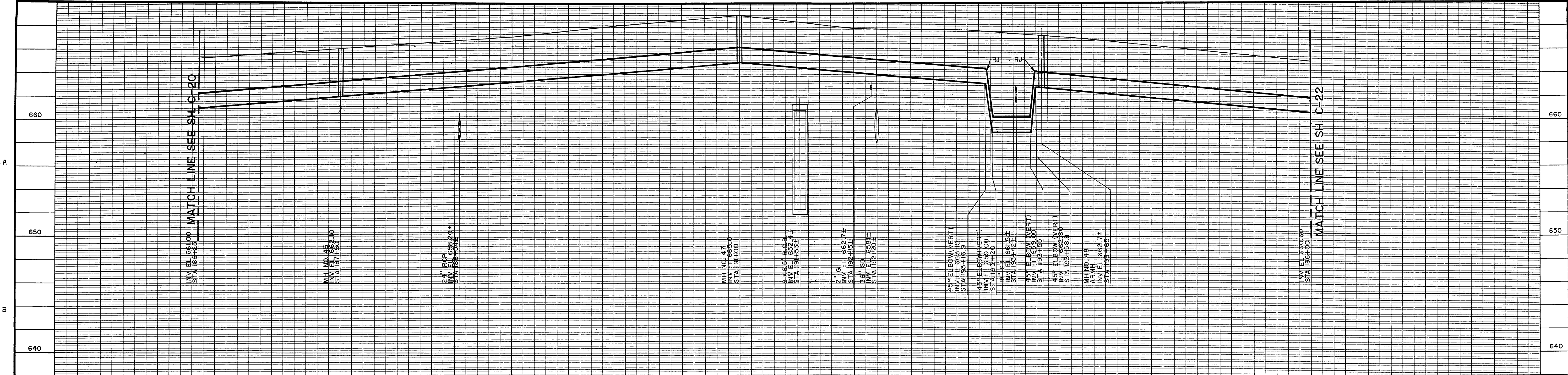


PROJECT NO. 23068
 SCALE = HORIZ: 1" = 40'
 VERT: 1" = 4'

WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE



C-20
 S-1711
 SHEET
 25 OF



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

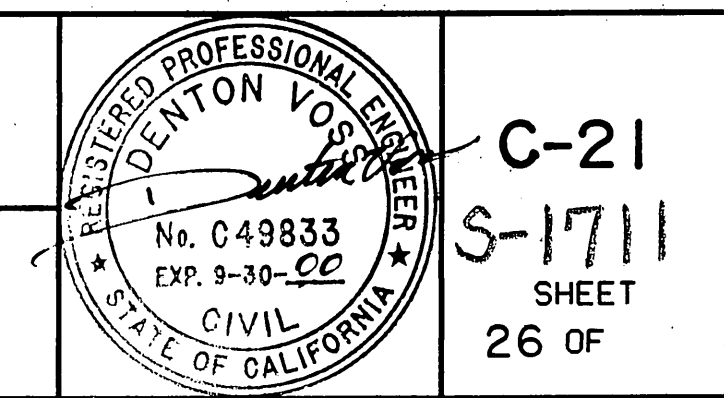
DESIGNED J.G., P.K.
 DETAILED K.T., S.G.
 CHECKED GMC
 APPROVED DJV
 DATE 6-26-96



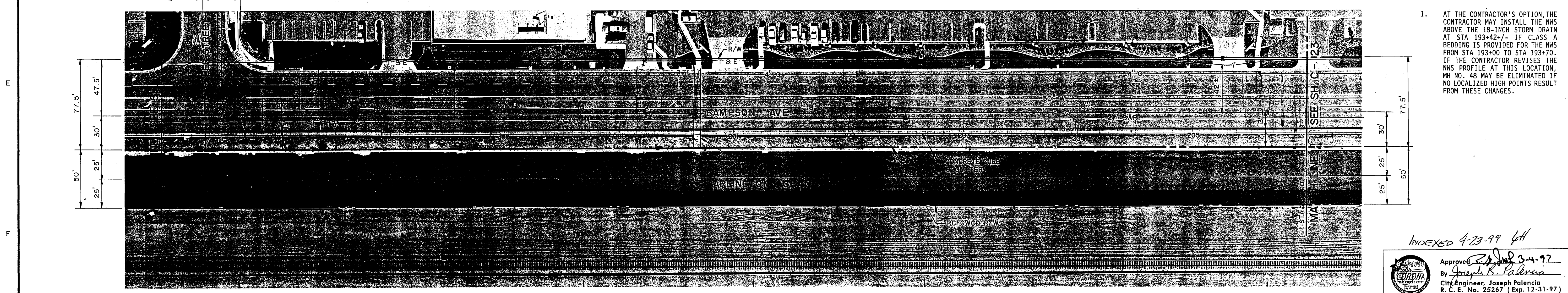
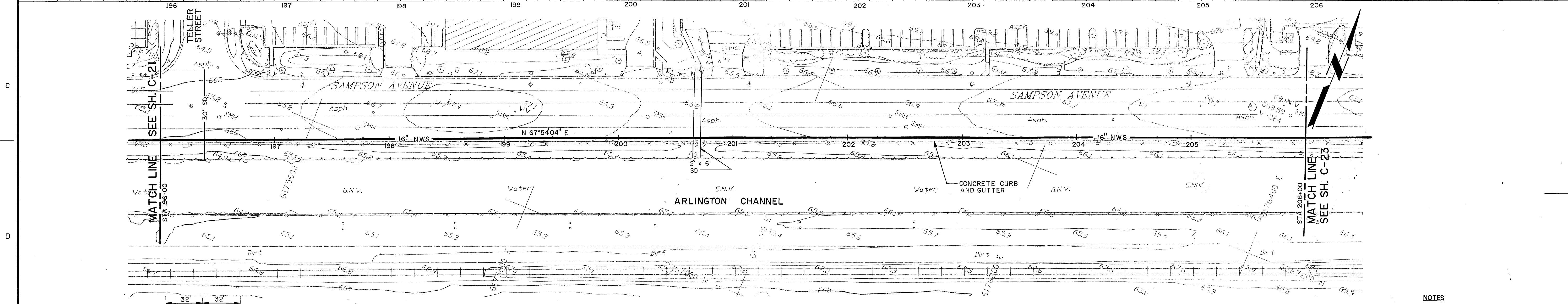
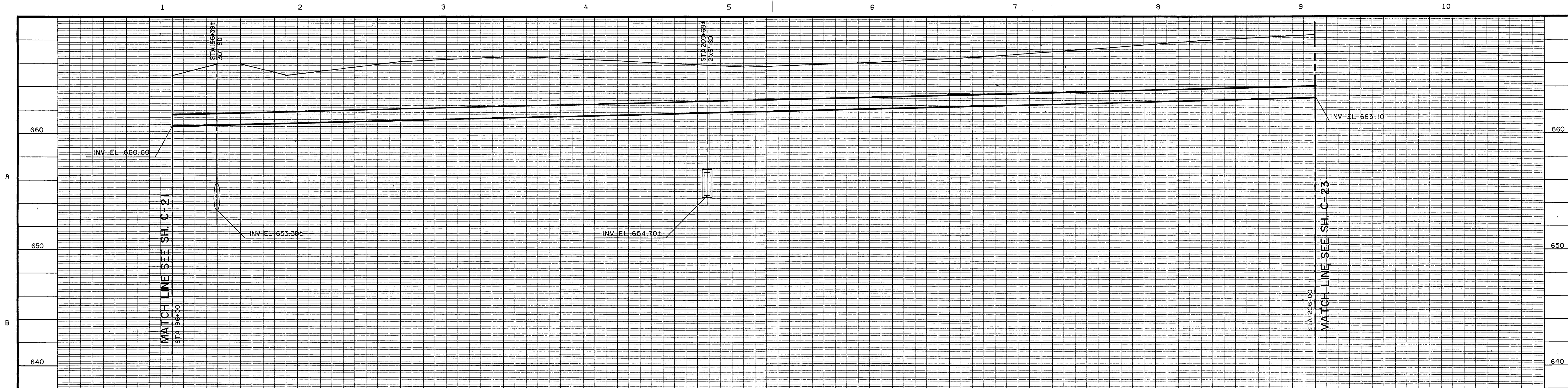
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23068
SCALE=
HORIZ: 1"=40'
VERT: 1"=4'

WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE

INDEXED 42399 4H
 Approved [Signature] 3-4-97
 By Joseph R. Valencia
 City Engineer, Joseph Valencia
 R/C. E. No. 25267 (Exp. 12-31-97)



C-21
 S-1711
 SHEET
 26 OF



- NOTES**
1. AT THE CONTRACTOR'S OPTION, THE CONTRACTOR MAY INSTALL THE NWS ABOVE THE 18-INCH STORM DRAIN AT STA 193+42+/- IF CLASS A BEDDING IS PROVIDED FOR THE NWS FROM STA 193+00 TO STA 193+70. IF THE CONTRACTOR REVISES THE NWS PROFILE AT THIS LOCATION, MH NO. 48 MAY BE ELIMINATED IF NO LOCALIZED HIGH POINTS RESULT FROM THESE CHANGES.

INDEXED 4-23-99 *gh*
 Approved: *[Signature]*
 By: Joseph R. Palencia
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)

NO.	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED J.G., P.K.
 DETAILED K.T., S.G.
 CHECKED GMC
 APPROVED DJV
 DATE 6-26-96

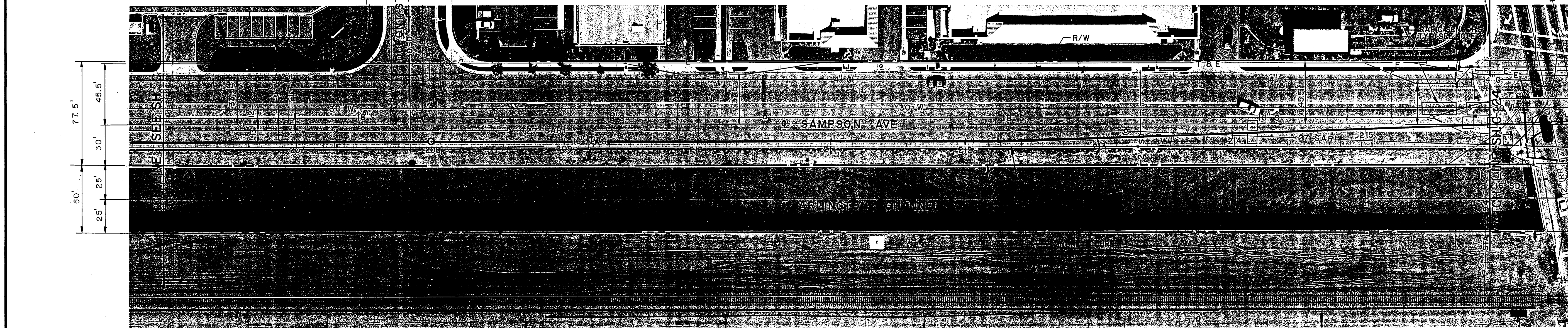
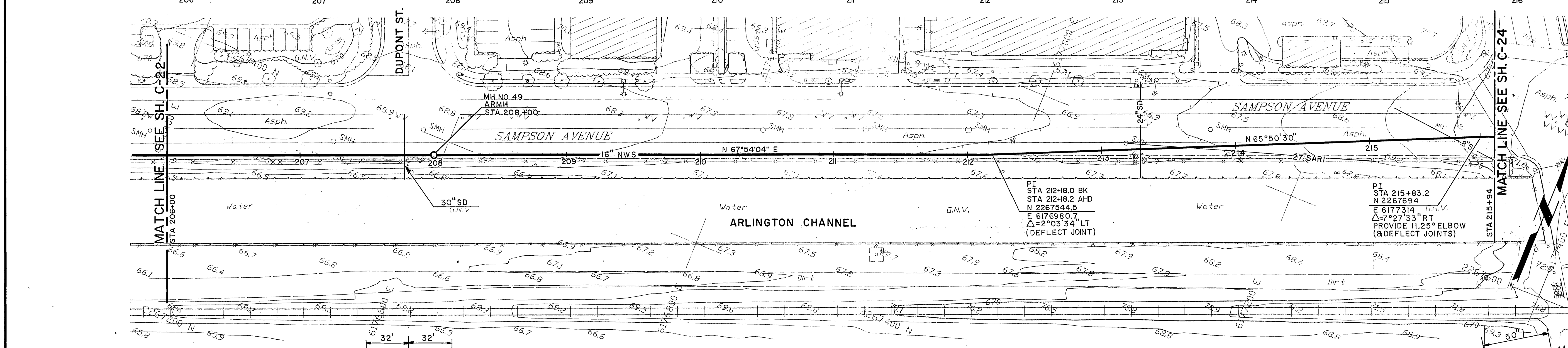
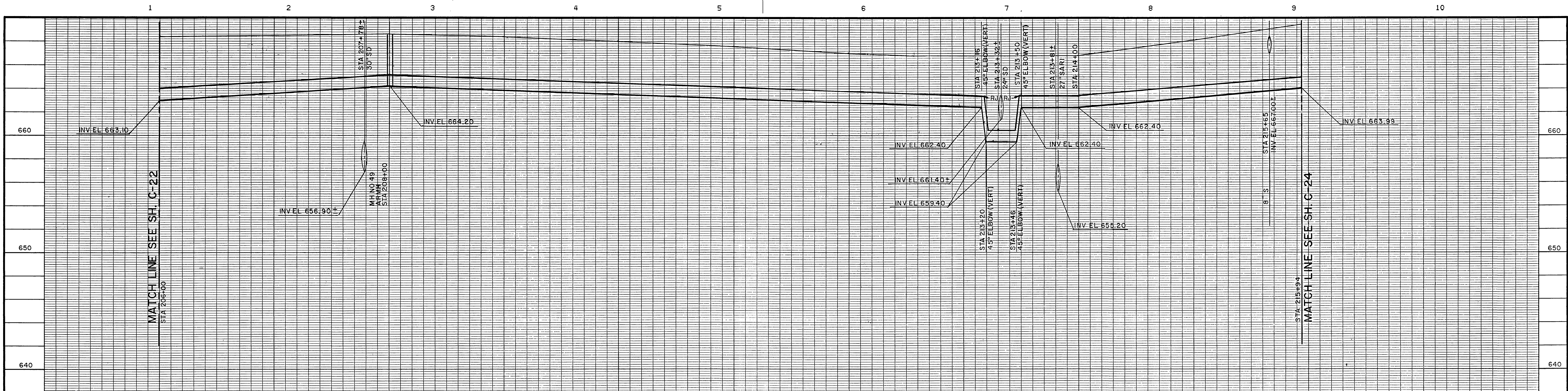


PROJECT NO. 23068
 SCALE = HORIZ: 1" = 40' VERT: 1" = 4'

WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE

C-22
 5-1711
 SHEET 27 OF

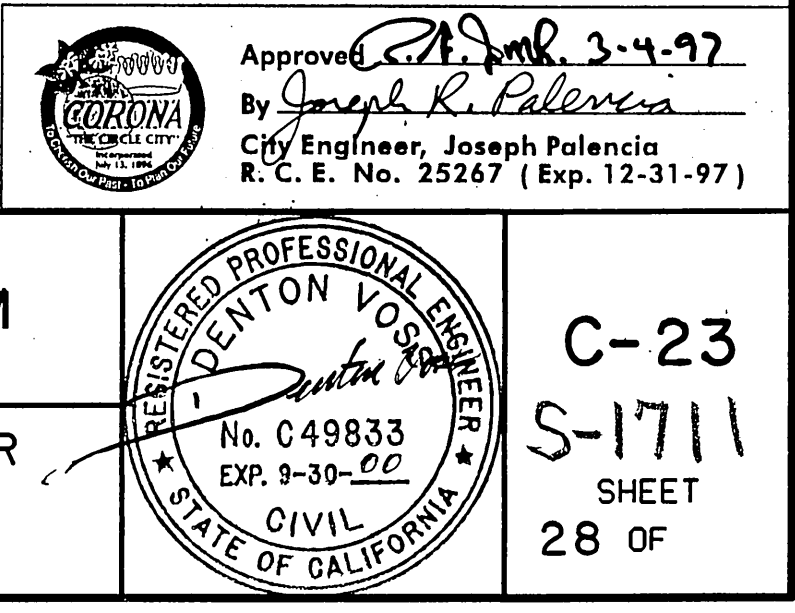
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- NOTES**
- CONSTRUCTION FROM STA 212+00 TO STA 220+00 IS PROHIBITED FROM NOVEMBER 20 THROUGH DECEMBER 31.
 - TRAFFIC SENSORS SHALL BE PROTECTED IN PLACE WHERE POSSIBLE. ANY TRAFFIC SENSOR THAT IS DAMAGED OR TAKEN OUT OF SERVICE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE PER CITY OF CORONA DRAWING NO. 86-82A, SHEET 1 OF 1.

INDEXED 4-23-99 44

Approved: *[Signature]* 3-4-97
 By: Joseph R. Palencia
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)



**WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM**

NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE

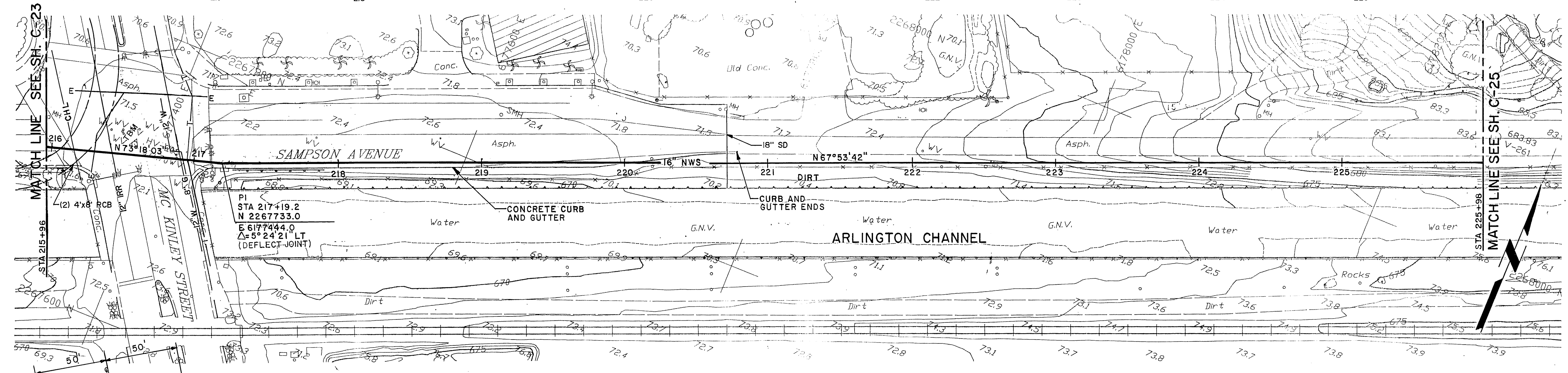
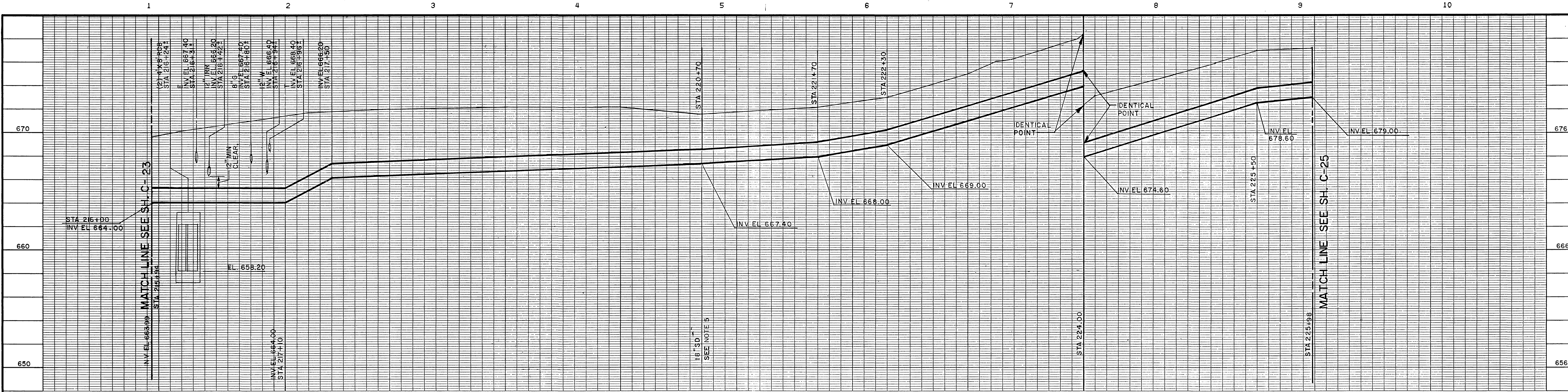


PROJECT NO.
23068

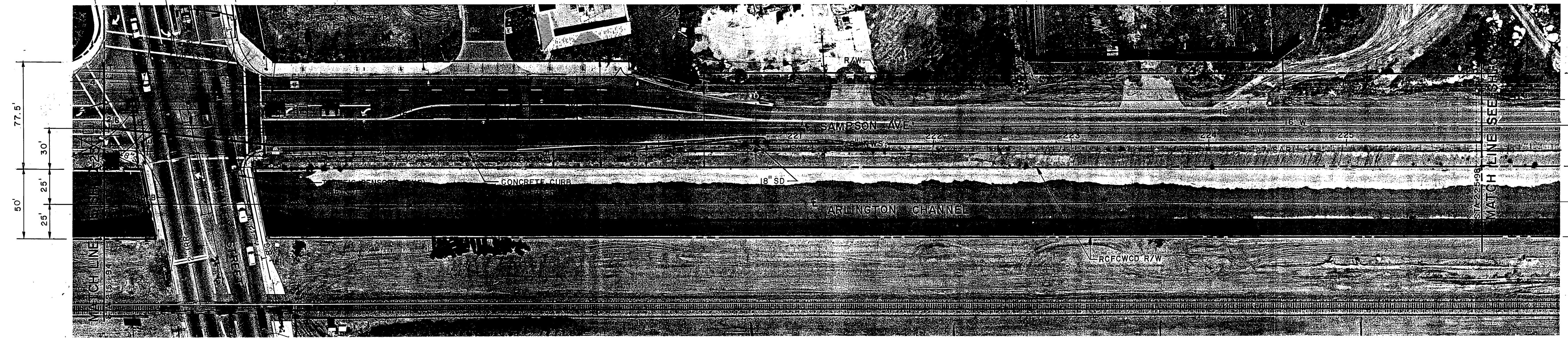
SCALE=
HORIZ: 1"=40'
VERT: 1"=4'

DESIGNED: J.G., P.K.
 DETAILED: K.T., S.G.
 CHECKED: GMC
 APPROVED: DJV
 DATE: 6-26-96

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE



- NOTES**
- CONSTRUCTION FROM STA 212+00 TO STA 220+00 IS PROHIBITED FROM NOVEMBER 20 THROUGH DECEMBER 31.
 - STA 224+23 +/- TO STA 239+23 +/-: SARI PROJECT SOILS REPORT INDICATES GRANITE, BUT THE OCCURRENCE OF GRANITE MAY NOT BE LIMITED TO THIS AREA. REFER TO NINYO & MOORE GEOTECHNICAL EVALUATION OF PROPOSED WRCRWA PROJECT.
 - STA 223+23 +/- TO STA 227+23 +/-: BLASTING OCCURRED DURING CONSTRUCTION OF SARI PIPELINE (INV EL FROM 658.6 TO 659, RESPECTIVELY).
 - TRAFFIC SENSORS SHALL BE PROTECTED IN PLACE WHERE POSSIBLE. ANY TRAFFIC SENSOR THAT IS DAMAGED OR TAKEN OUT OF SERVICE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE PER CITY OF CORONA DRAWING NO. 86-82A, SHEET 1 OF 1. EXISTING SENSORS ON MCKINLEY, NORTH OF SAMPSON ARE NOT SHOWN.
 - UTILITY ON STA 220+70 +/- HAS UNKNOWN ELEVATION. CONTRACTOR SHALL POTHOLE TO FIND ELEVATION.



INDEXED 4-23-99 GH
 Approved: *[Signature]*
 By: *Joseph R. Palencia*
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)

DESIGNED	J. G., D.K.
DETAILED	K.T., S.G.
CHECKED	GMC
APPROVED	DJN
DATE	6-26-96

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

PROJECT NO. 23068

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

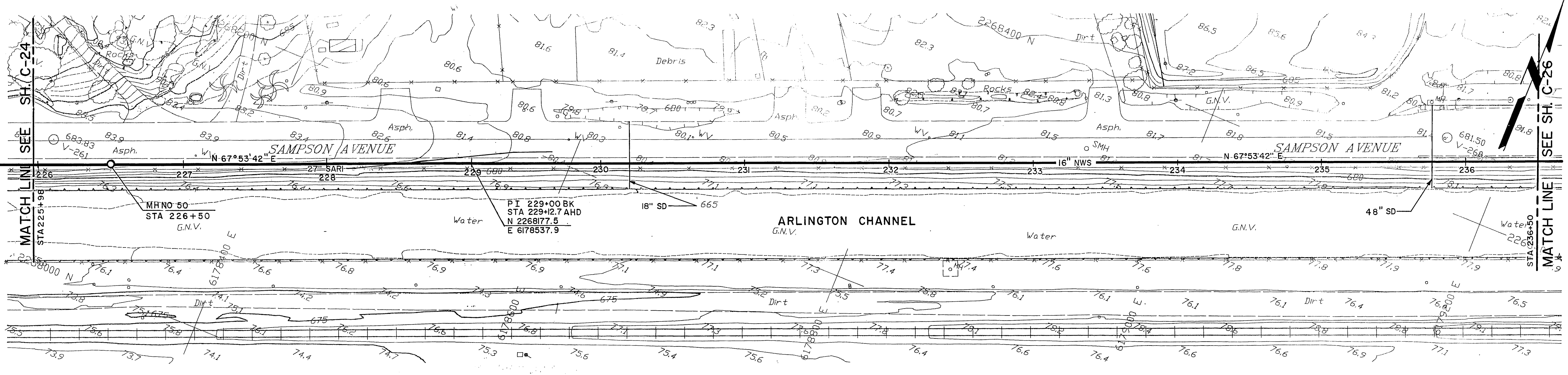
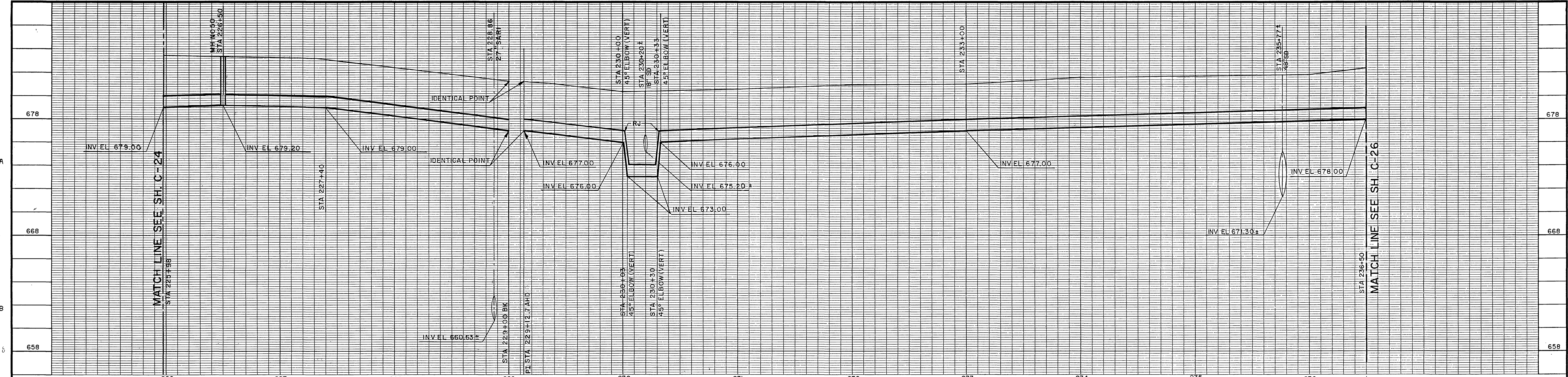
Black & Veatch
Irvine, California

WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE

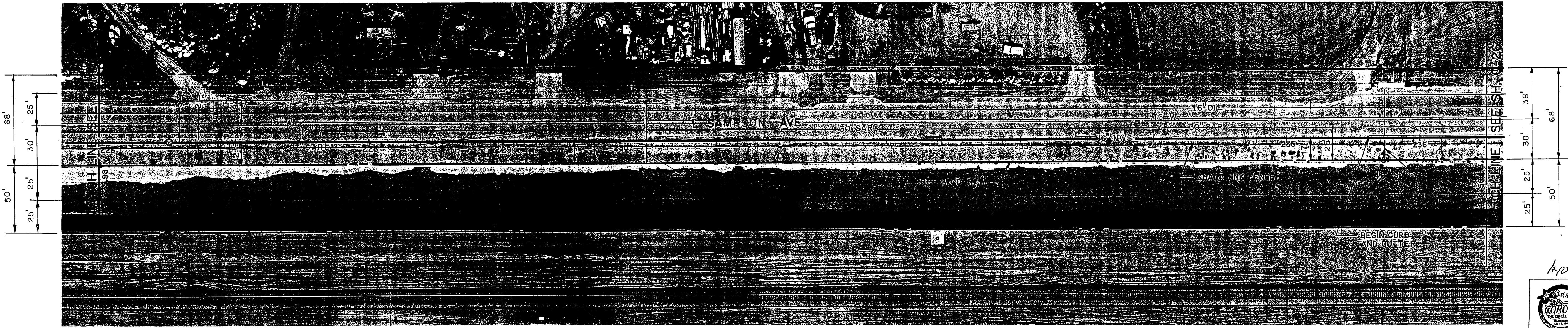
C-24
5-1711
SHEET
29 OF

REGISTERED PROFESSIONAL ENGINEER
 DENTON VOSS
 No. C49833
 EXP. 9-30-00
 CIVIL
 STATE OF CALIFORNIA

CCG. DWG. NO: 23068-301-312-R000



- NOTES
1. STA 224+23 +/- TO STA 239+23 +/-: SARI PROJECT SOILS REPORT INDICATES GRANITE, BUT THE OCCURRENCE OF GRANITE MAY NOT BE LIMITED TO THIS AREA. REFER TO NINYO & MOORE GEOTECHNICAL EVALUATION OF PROPOSED WRCRWA PROJECT.
 2. STA 223+23 +/- TO STA 227+23 +/-: BLASTING OCCURRED DURING CONSTRUCTION OF SARI PIPELINE (INV. EL. FROM 658.6 TO 659, RESPECTIVELY)
 3. AT THE CONTRACTOR'S OPTION, THE CONTRACTOR MAY INSTALL THE NWS ABOVE THE 18-INCH STORM DRAIN AT STA 230+20 +/- IF CLASS A BEDDING IS PROVIDED FOR THE NWS FROM STA 229+40 TO STA 231+00 AND IF NO LOCALIZED HIGH POINTS RESULT FROM THESE CHANGES.



INDEXED 4-23-99 JH
 Approved: *[Signature]* 3-4-97
 By: Joseph R. Palencia
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)

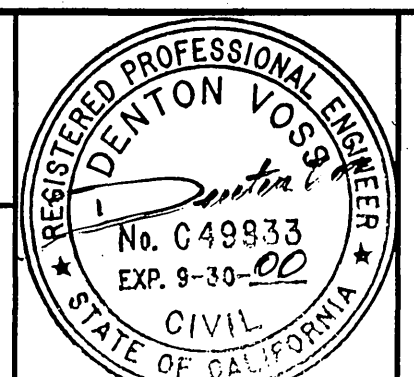
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED: J.G. P.K.
 DETAILED: K.T., S.G.
 CHECKED: GMC
 APPROVED: DJJ
 DATE: 6-20-96

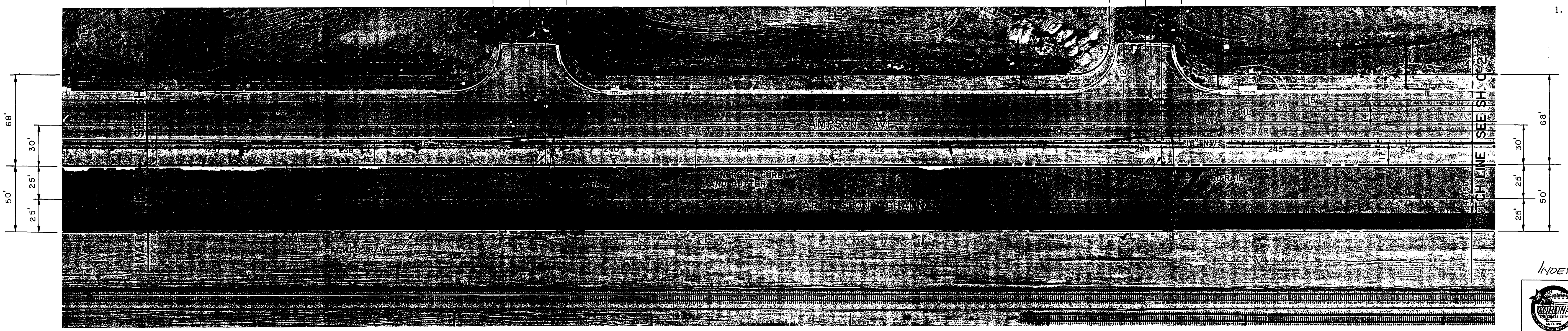
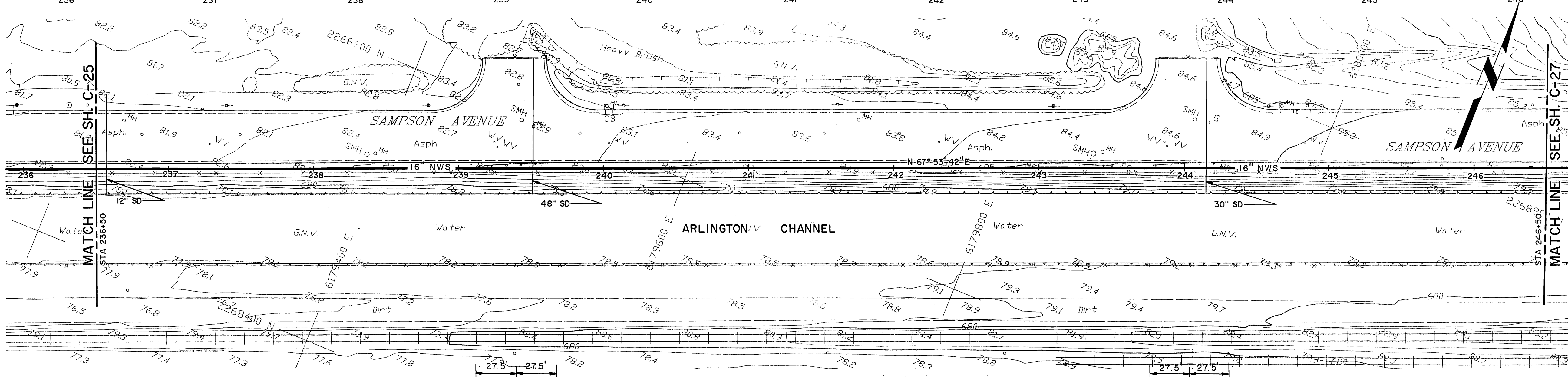
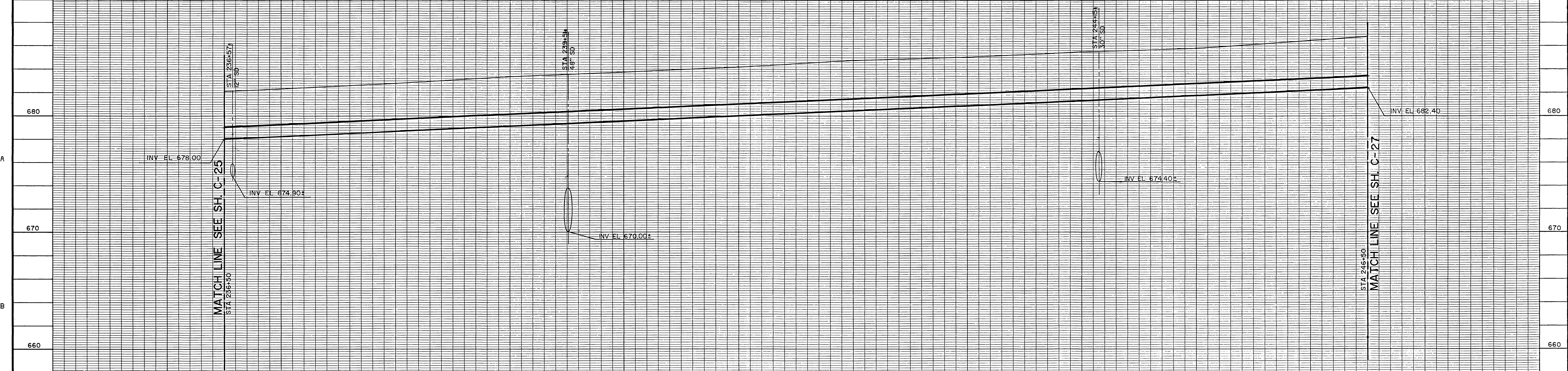


PROJECT NO.
 23068
 SCALE=
 HORIZ: 1" = 40'
 VERT: 1" = 4'

WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE



C-25
 5-1711
 SHEET
 30 OF



NOTES

1. STA 224+23 +/- TO STA 239+23 +/-: SARI PROJECT SOILS REPORT INDICATES GRANITE, BUT THE OCCURRENCE OF GRANITE MAY NOT BE LIMITED TO THIS AREA. REFER TO NINYO & MOORE GEOTECHNICAL EVALUATION OF PROPOSED WRCRA PROJECT.

INDEXED 4-23-99 JH
 Approved: *[Signature]* 3-4-97
 By: Joseph R. Palencia
 R.C.E. No. 25267 (Exp. 12-31-97)

DESIGNED	J.G., P.K.
DETAILED	K.T., S.G.
CHECKED	GMC
APPROVED	DJV
DATE	6-26-96

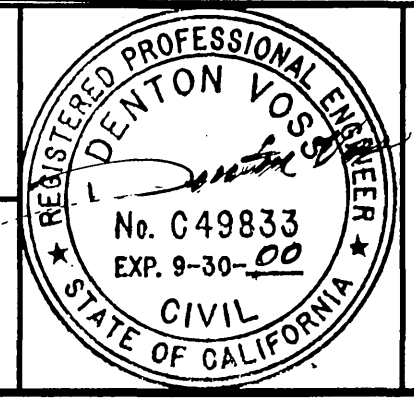
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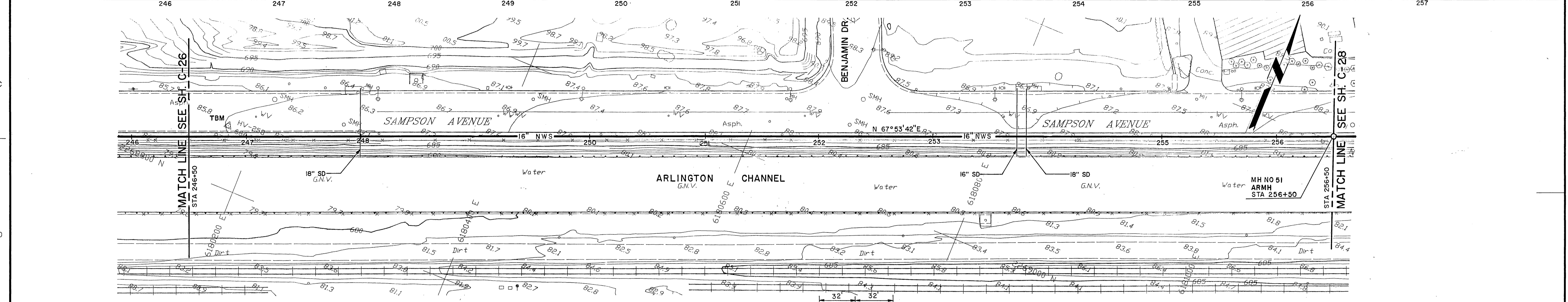
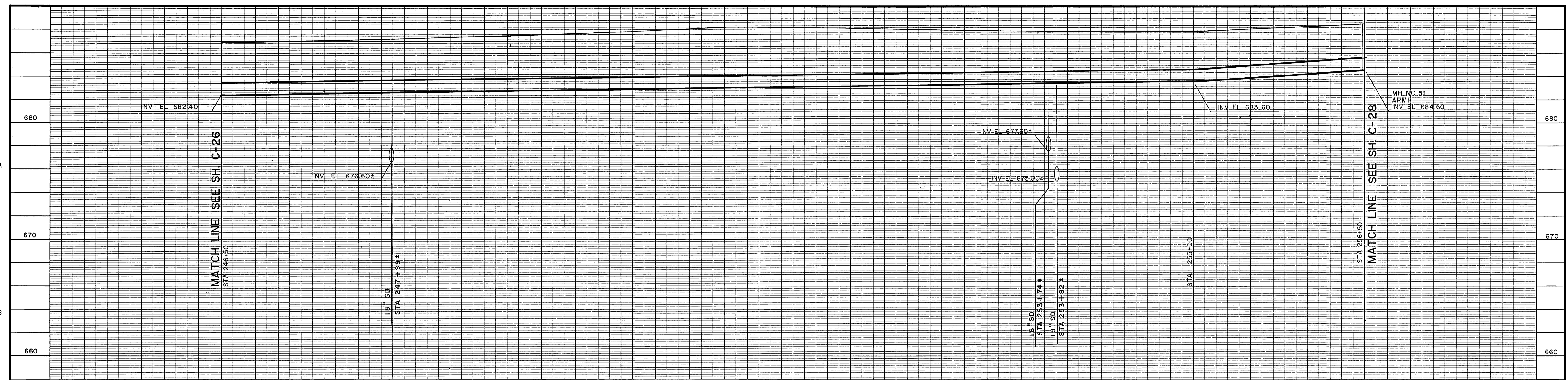
PROJECT NO.
23068
SCALE=
HORIZ: 1" = 40'
VERT: 1" = 4'

**WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM**

**NONRECLAIMABLE WASTEWATER SEWER
PLAN AND PROFILE**



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S-1711
SHEET
31 OF



INDEXED 4-23-99 GH
 Approved: *[Signature]* 3-24-97
 By: *[Signature]*
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)

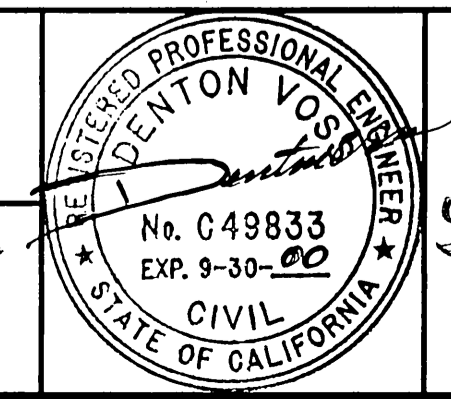
NO.	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED J.G., P.K.
 DETAILED K.T., S.G.
 CHECKED GMC
 APPROVED DJV
 DATE 6-26-96

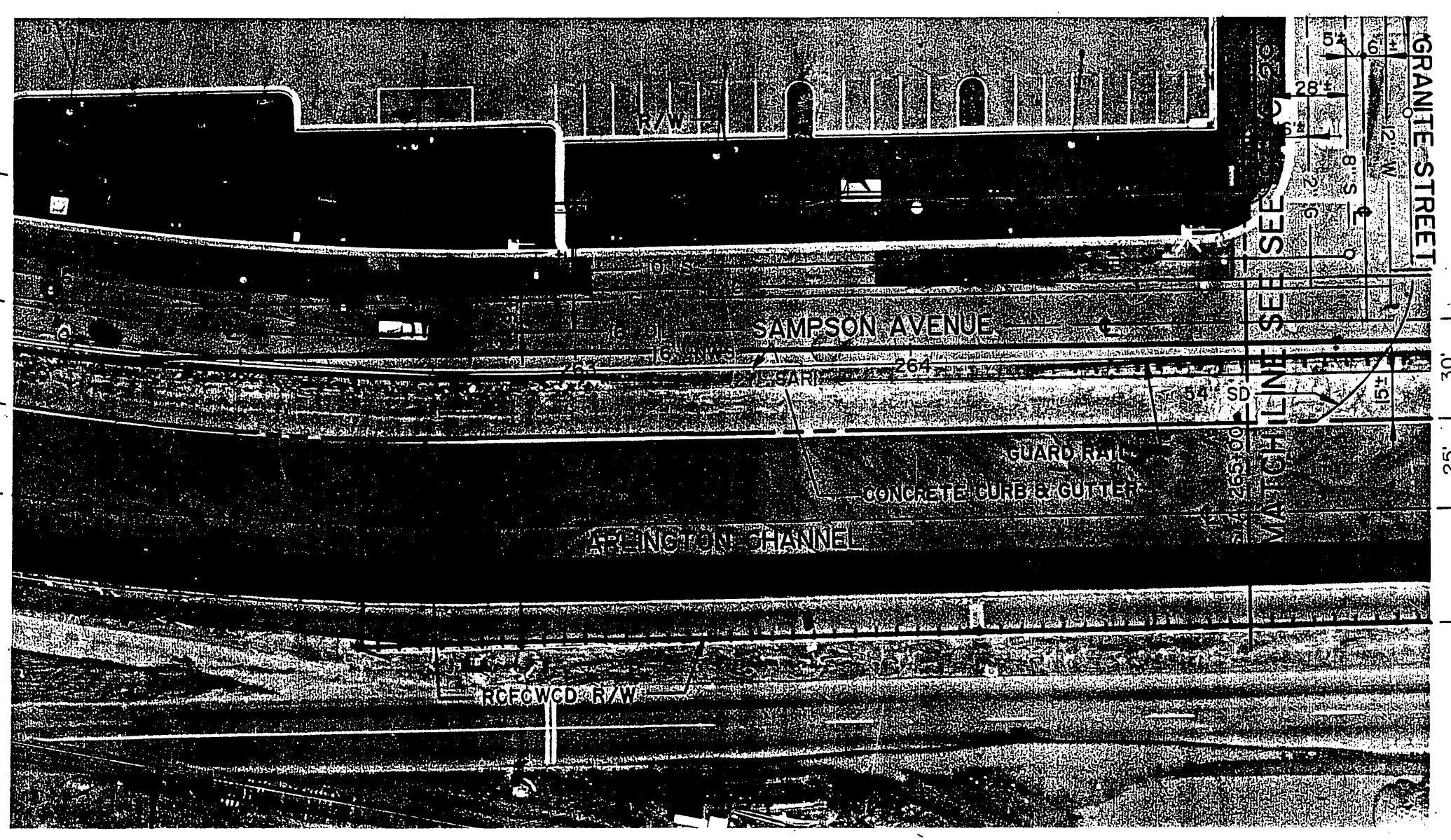
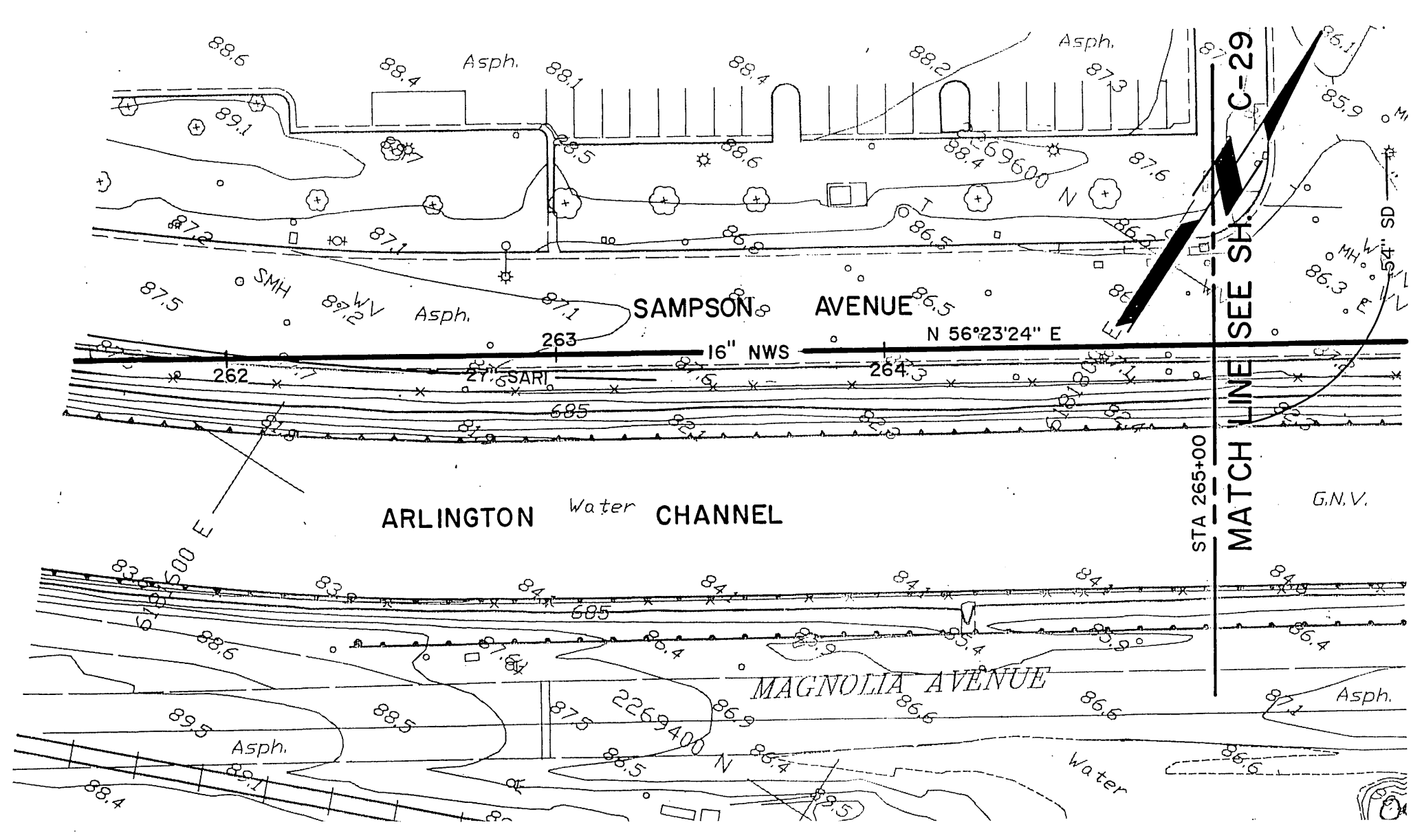
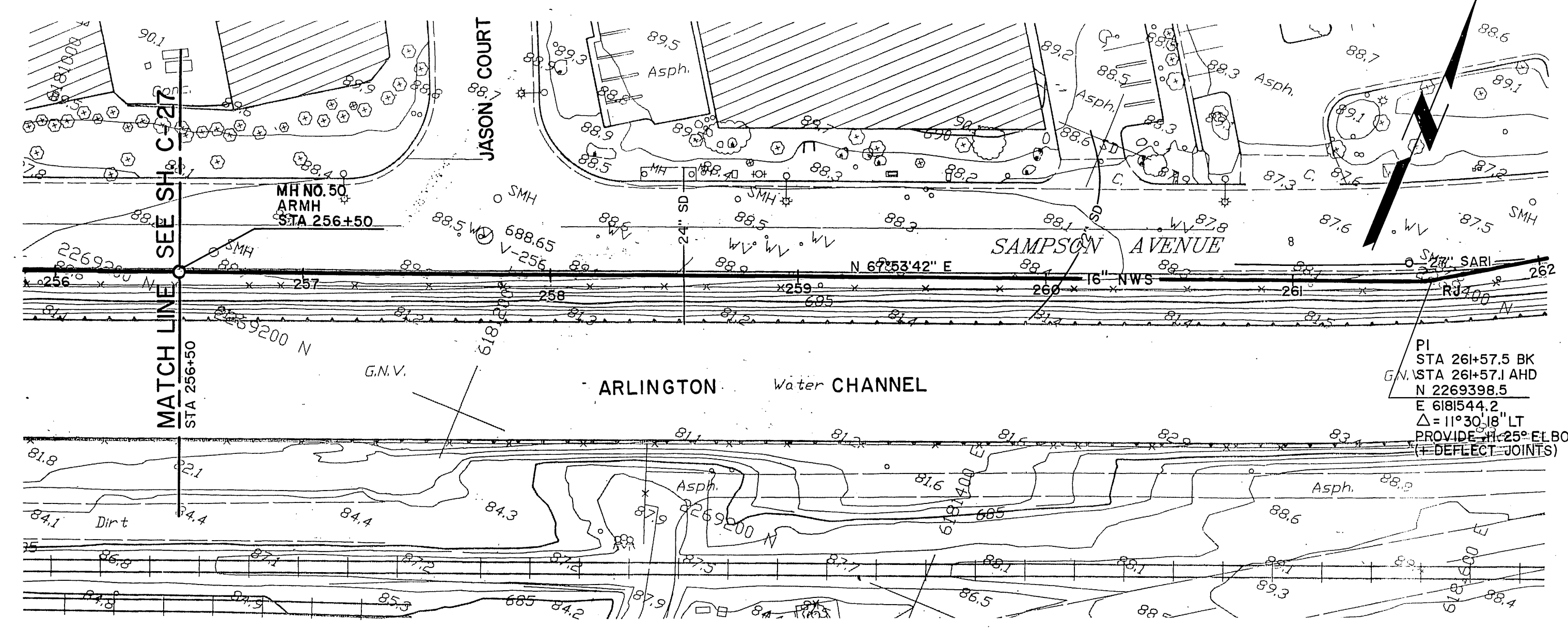
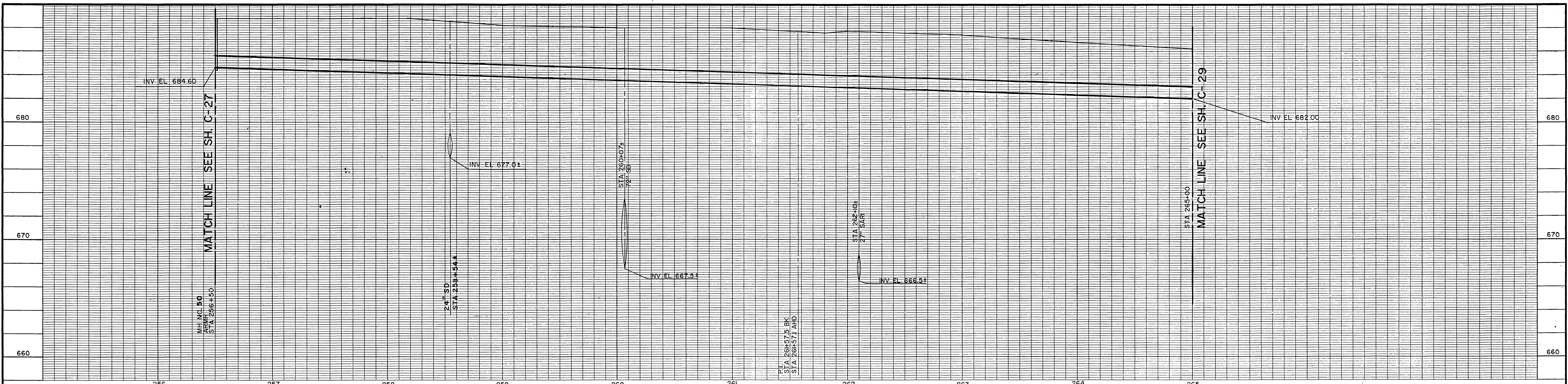


PROJECT NO.
 23068
 SCALE=
 HORIZ: 1" = 40'
 VERT: 1" = 4'

WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE



C-27
 S-1711
 SHEET
 32 OF



INDEXED 4-23-99 441
 Approved: *[Signature]*
 By: Joseph R. Palencia
 City Engineer, Joseph Palencia
 R. C. E. No. 25267 (Exp. 12-31-97)

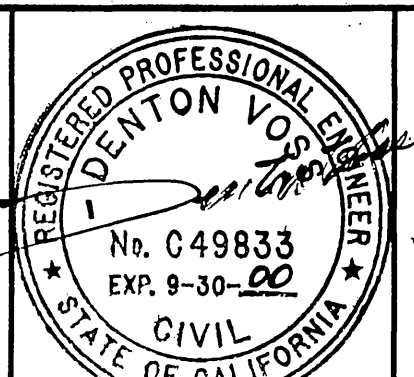
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED J.G.,PK
 DETAILED S.G.
 CHECKED GMC
 APPROVED DJV
 DATE 6-16-76

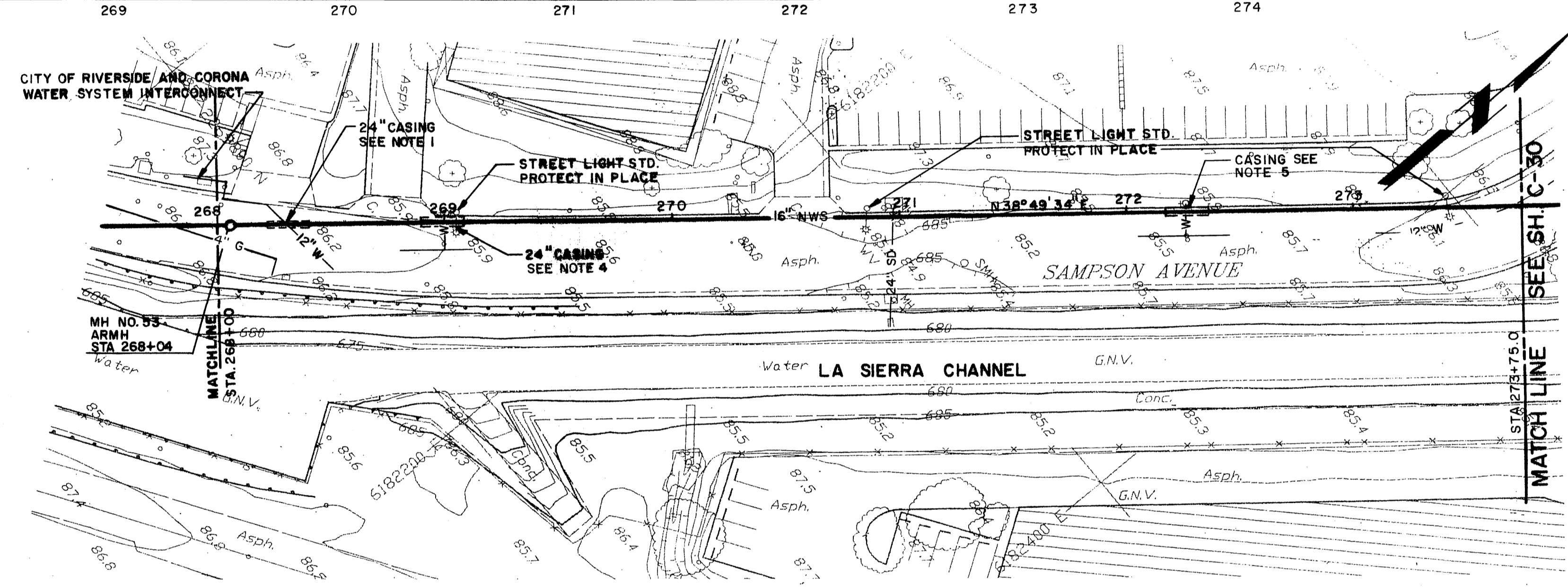
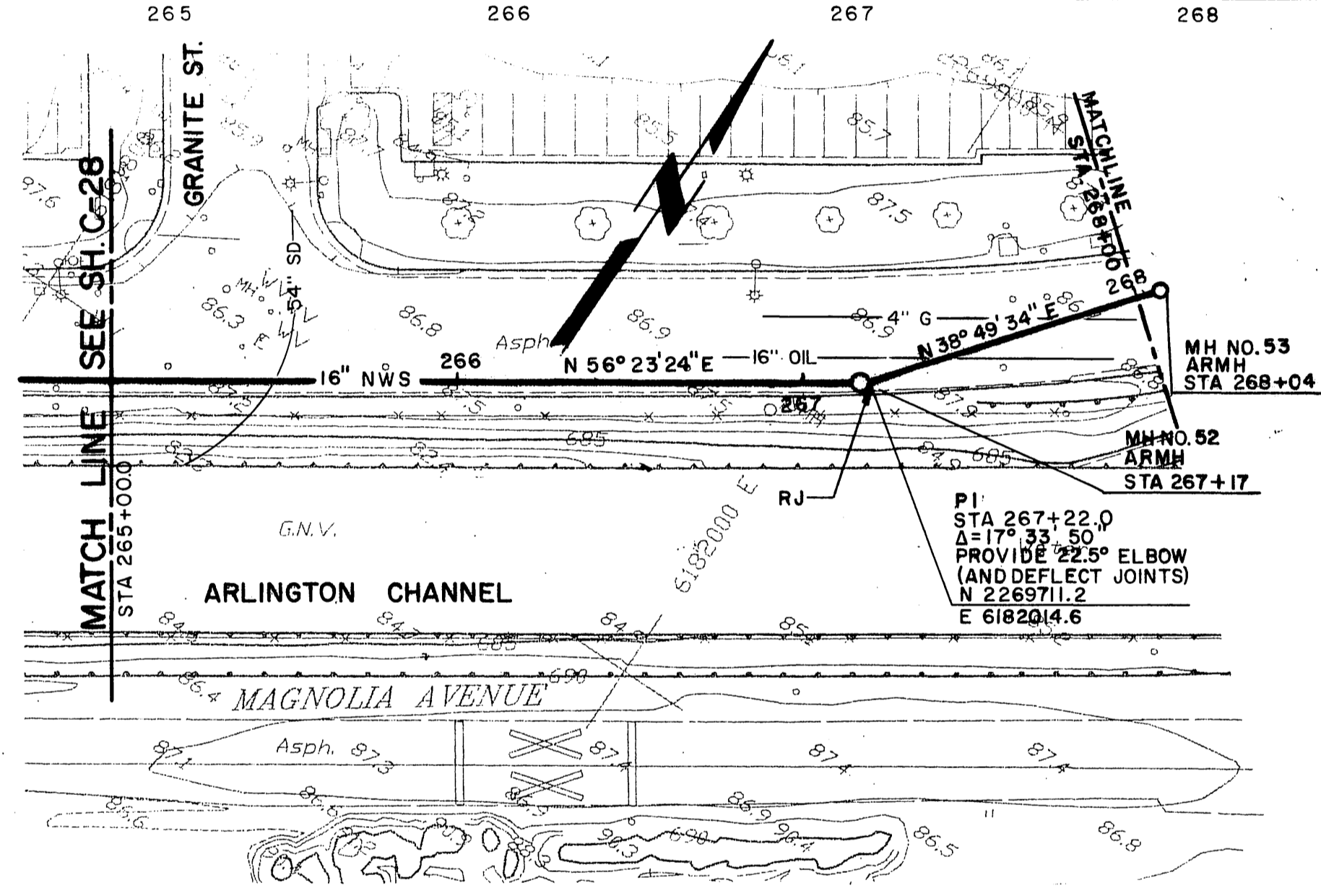
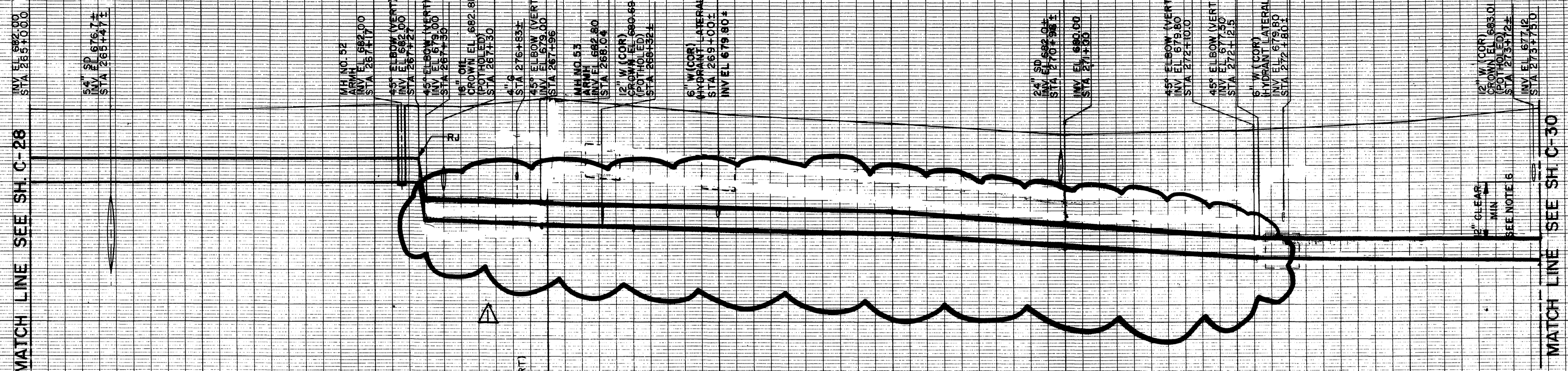


PROJECT NO.
 23068
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 VERT: 1" = 4'

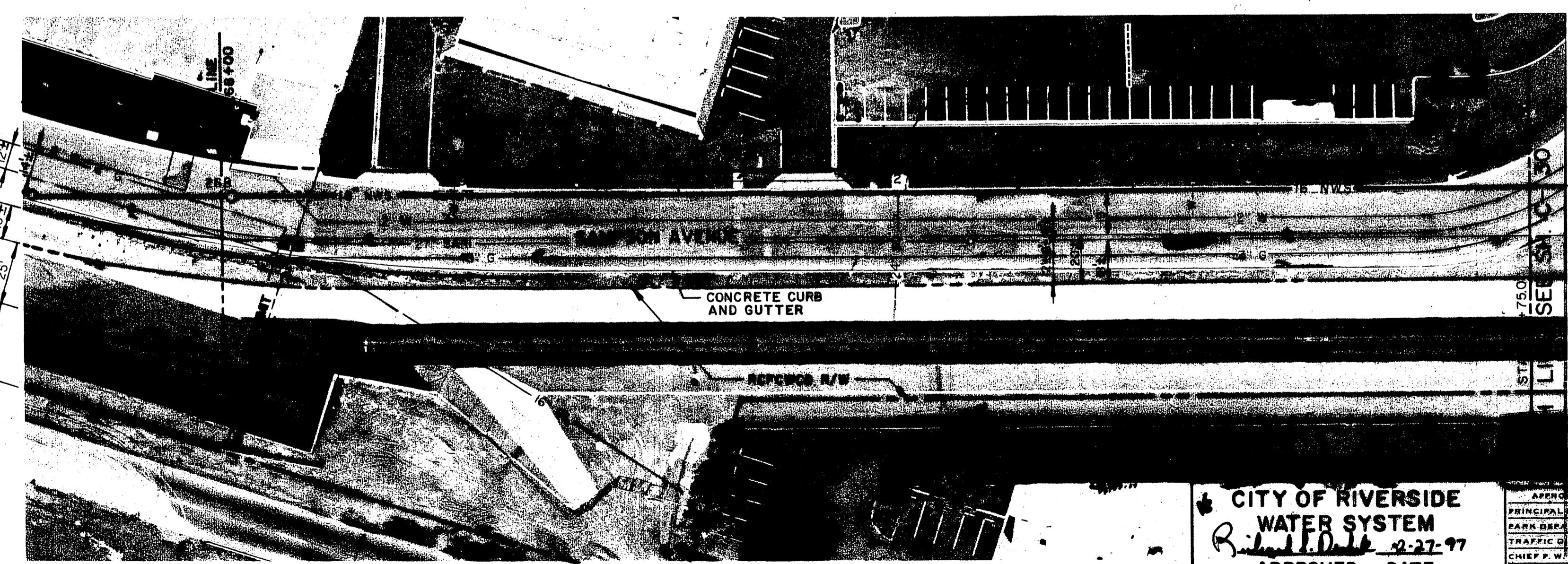
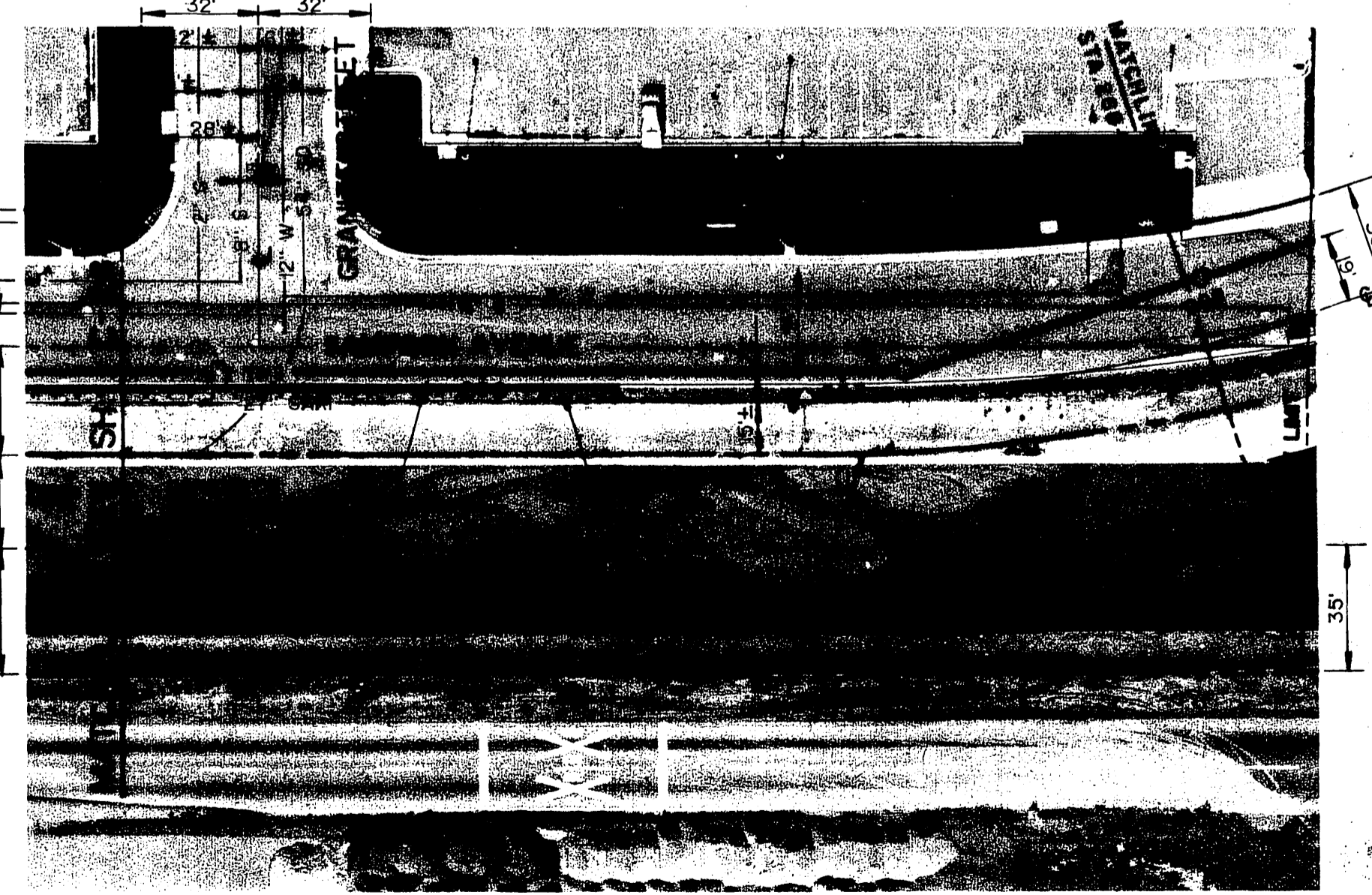
WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE



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 S-1711
 SHEET
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- NOTES**
1. STA 268+22 +/- TO STA 268+42 +/- SPECIAL CONSTRUCTION REQUIRED FOR 10 FEET BEYOND WATER LINE CROSSING ON BOTH SIDES OF WATER LINE. CONTRACTOR CAN ENCASE OR PROVIDE OTHER MEANS PER DETAIL E ON SHEET C-38.
 2. CONTRACTOR SHALL OBTAIN A STREET OPENING PERMIT FROM THE CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT PRIOR TO PERFORMING ANY CONSTRUCTION IN CITY STREETS.
 3. CONTRACTOR SHALL PROTECT ALL STREET LIGHTS IN PLACE.
 4. STA 268+90 +/- TO STA 269+10 +/- SPECIAL CONSTRUCTION REQUIRED FOR 10 FEET BEYOND WATER LINE CROSSING ON BOTH SIDES OF WATER LINE. CONTRACTOR CAN ENCASE OR PROVIDE OTHER MEANS PER DETAIL E ON SHEET C-38.
 5. CASING PER DETAIL E, SHEET C-38.
 6. PROVIDE A MINIMUM OF 12 INCHES VERTICAL CLEARANCE BETWEEN THE NWS AND ALL WATER LINES WITHIN THE CITY OF RIVERSIDE.
 7. ALL STREET TREES IN THE CITY OF RIVERSIDE WHICH ARE REMOVED, DISTURBED, DAMAGED OR RELOCATED AS A RESULT OF THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL RELOCATED TREE PLANTING / PALM TREE RELOCATION WORK SHALL CONFORM TO THE CITY OF RIVERSIDE PARKS AND RECREATION DEPARTMENT STANDARDS AND THE CITY OF RIVERSIDE STREET TREE POLICIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO ACCEPTABLY MAINTAIN ALL PLANTINGS FOR A MINIMUM PERIOD OF ONE YEAR.
 8. REPAIR AND/OR REPLACEMENT OF FIRE HYDRANTS AT STA 269+00 AND STA 272+80 SHALL INCLUDE THE REPAIR OR REPLACEMENT OF CONCRETE BLOCKING.



INDEXED 4-23-99 4H
CITY OF RIVERSIDE
 PUBLIC WORKS DEPARTMENT

APPROVED BY		DATE	BY	APPROVED BY	DATE
PRINCIPAL ENGINEER		4-27-97	[Signature]	PUBLIC WORKS DIRECTOR	
PAVEMENT ENGINEER		3-3-97	[Signature]	DATE	
TRAFFIC DIVISION		3-7-97	[Signature]	DATE	
CHIEF P.W. ENGINEER		3-7-97	[Signature]	DATE	
PUBLIC UTIL. ENGR.		4/17/97	[Signature]	DATE	

WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM

NONRECLAIMABLE WASTEWATER SEWER
PLAN AND PROFILE

PROJECT NO. 23068
 SCALE: HORIZ: 1"=40'
 VERT: 1"=4'

REGISTERED PROFESSIONAL ENGINEER
 WESTON V.O.S.
 No. C49333
 Exp. 9-30-02
 CIVIL
 STATE OF CALIFORNIA

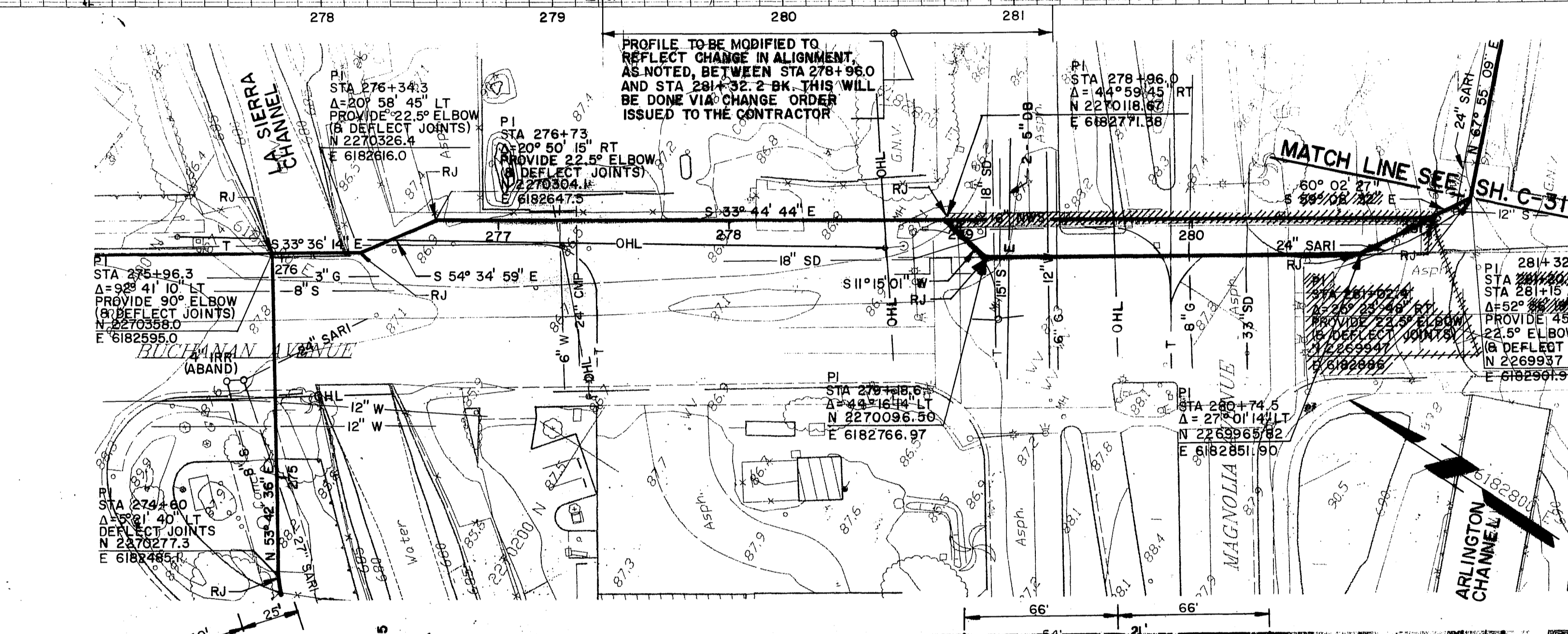
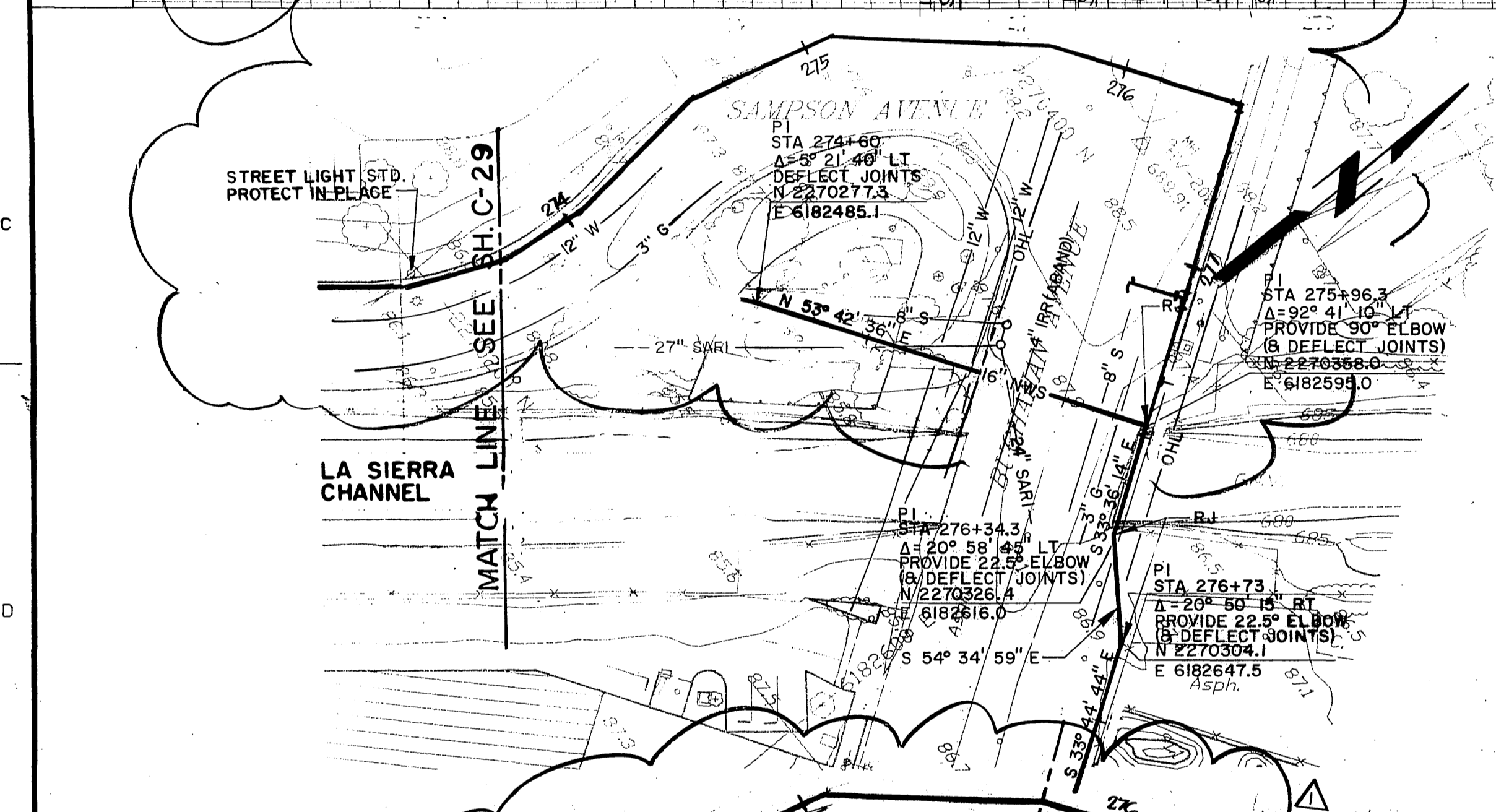
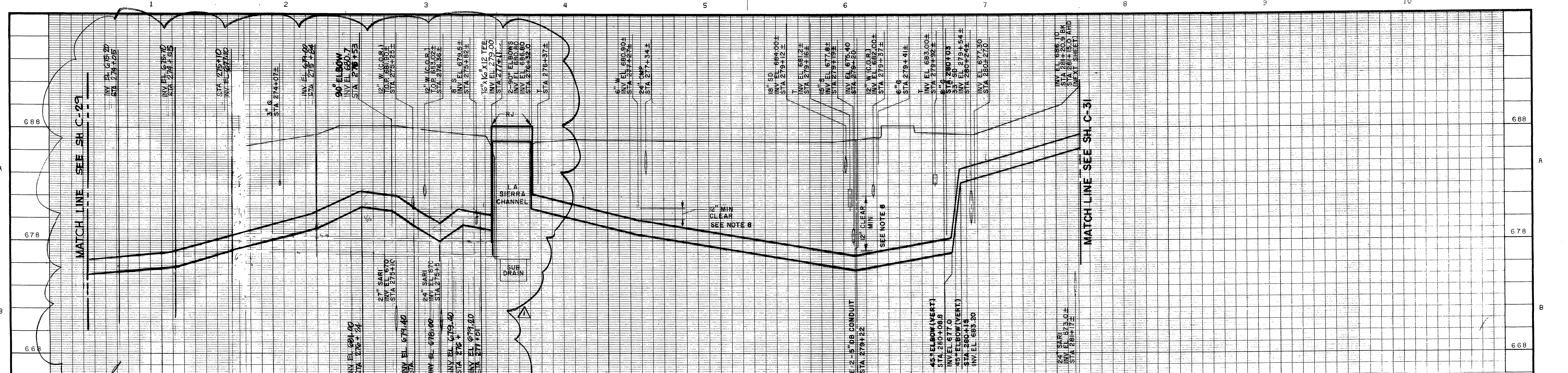
C-29
 S-1711
 SHEET
 34 OF

DESIGNED	J.G., P.K.
DETAILED	J.V., K.T.
CHECKED	G.M.C.
APPROVED	D.J.V.
DATE	6-26-96

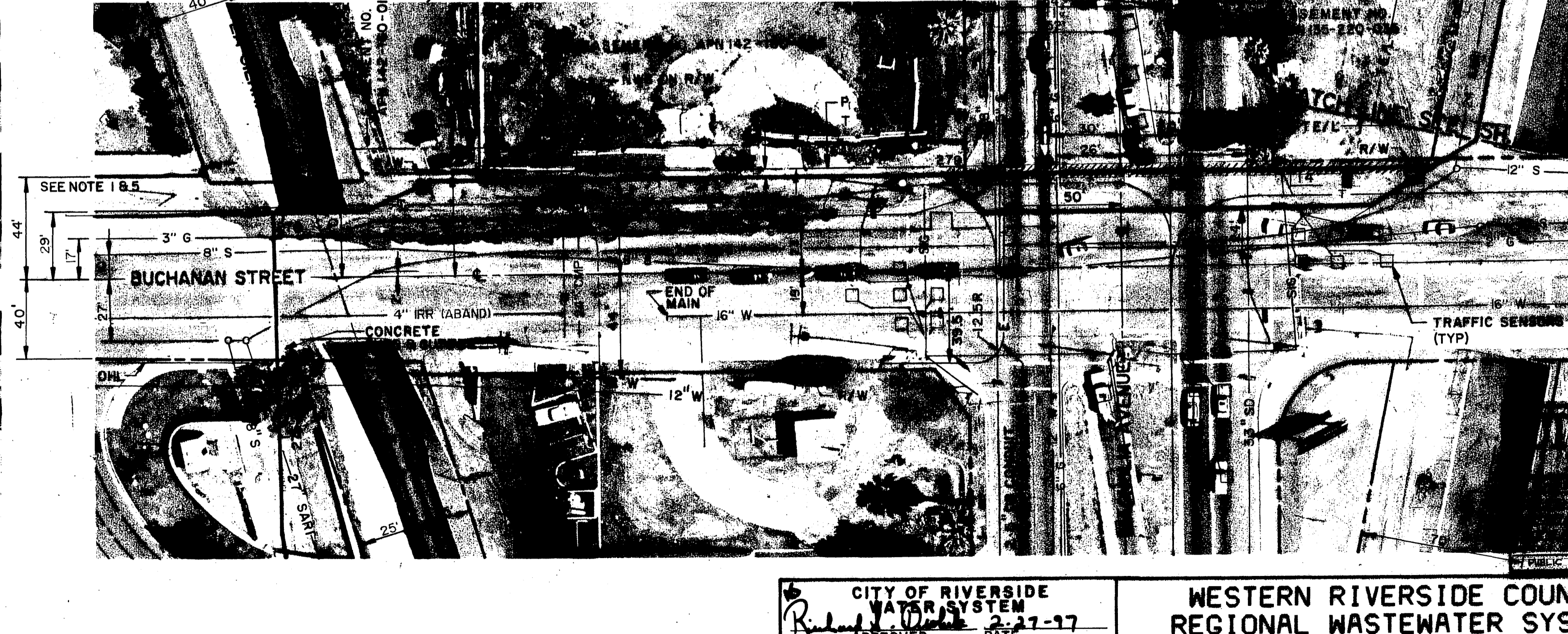
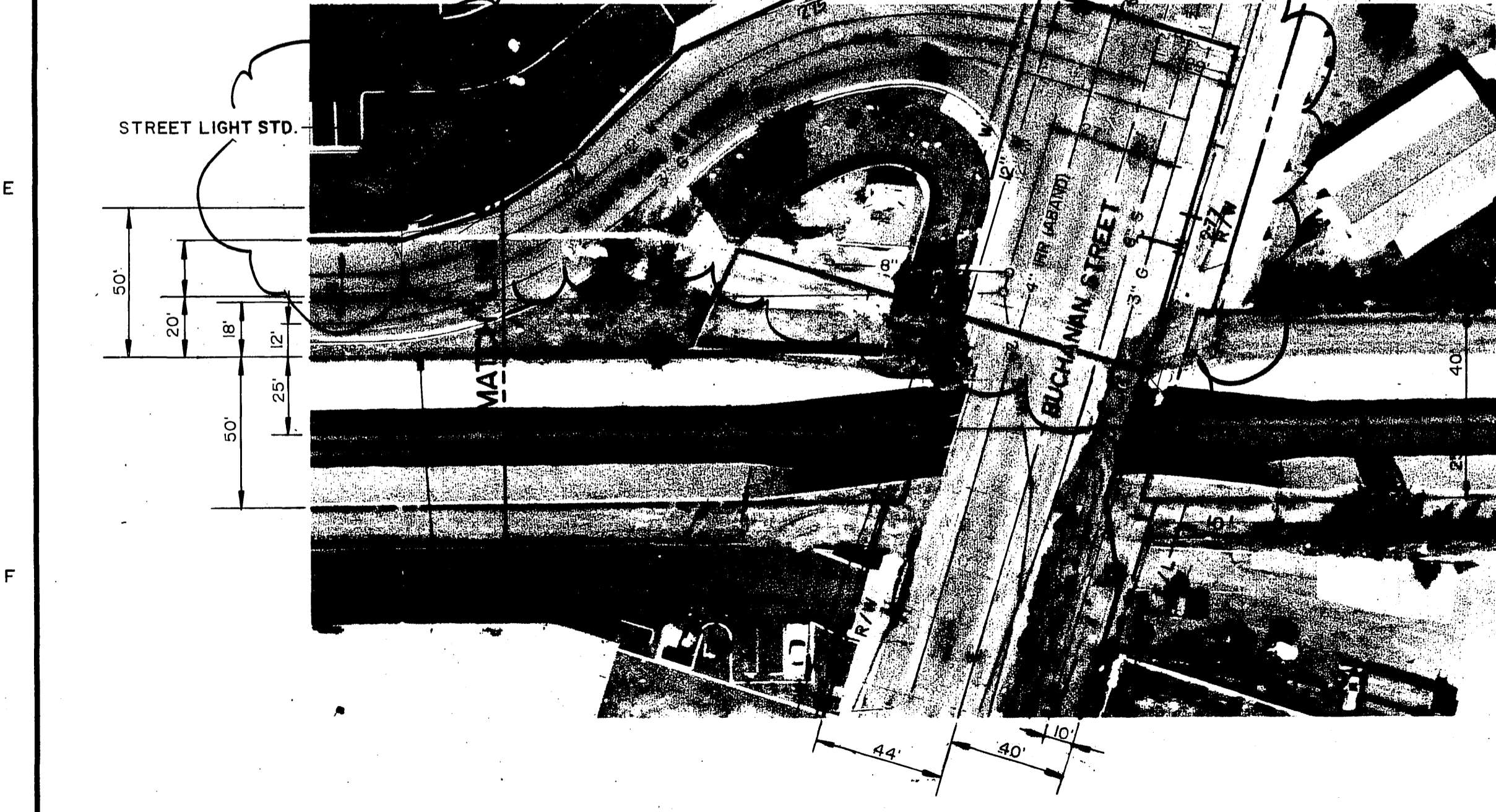
CONFORMED TO CONSTRUCTION RECORDS

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP





- NOTES**
1. PROVIDE AIR RELEASE VALVE ASSEMBLY PER DETAIL F ON SHEET C-39.
 2. ALL CROSSINGS AT WATER LINES SHALL CONFORM TO DETAIL E ON SHEET C-38.
 3. AFTER VERIFYING THE LOCATION AND ELEVATION OF THE 6-INCH AND 8-INCH HIGH PRESSURE GAS MAINS IN MAGNOLIA AVENUE, THE CONTRACTOR SHALL ADJUST THE GRADE OF THE NWS IF NECESSARY TO AVOID THE GAS MAINS.
 4. THE NWS ALIGNMENT IN ADJACENT TO EXISTING POWER POLES. THE CONTRACTOR SHALL PROVIDE ADEQUATE SUPPORT FOR THE POLES DURING CONSTRUCTION OF THE NWS. ELECTRICAL SERVICE FROM THE POLES SHALL NOT BE INTERRUPTED. THE CONTRACTOR SHALL CONTACT THE CITY OF RIVERSIDE ELECTRICAL DEPARTMENT AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK IN BUCHANAN ST.
 5. MOUNT THE NWS ON THE BRIDGE PARAPET PER DETAILS SHOWN ON SHEET C-39.
 6. CONTRACTOR SHALL PROTECT THE EXISTING TRAFFIC SIGNAL CONDUITS, POLES, AND TRAFFIC SENSOR LOOPS IN PLACE. REPAIR OF ALL DAMAGED FACILITIES SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE AND SHALL CONFORM TO CITY OF RIVERSIDE RECORD PLAN X-459.
 7. CONTRACTOR SHALL OBTAIN A STREET OPENING PERMIT FROM THE CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT PRIOR TO PERFORMING ANY CONSTRUCTION IN CITY STREETS PER ENCROACHMENT PERMIT E-1 ISSUED TO WESTERN RIVERSIDE COUNTY REGIONAL WASTEWATER AUTHORITY.
 8. PROVIDE A MINIMUM OF 12 INCHES VERTICAL CLEARANCE BETWEEN THE NWS AND ALL WATER LINES WITHIN THE CITY OF RIVERSIDE.
 9. DIMENSIONS NOT SHOWN FOR EASEMENT NOS. APN 142-160-015, APN 142-160-006, AND APN 135-220-035 ARE PROVIDED IN SECTION 01500 OF THE SPECIFICATIONS.



DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP
4-10-99	CONFORMED TO CONSTRUCTION RECORDS		JH	DIV	

DESIGNED	J.G. P.K.
DETAILED	K.T., S.W.
CHECKED	G.M.C.
APPROVED	DJV
DATE	6-26-96

CITY OF RIVERSIDE WATER SYSTEM
 APPROVED *Richard D. ...* DATE 2-27-97

Black & Veatch
 Irvine, California

PROJECT NO. 23068
 SCALE = HORIZ: 1" = 40' VERT: 1" = 4'

WESTERN RIVERSIDE COUNTY REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER PLAN AND PROFILE

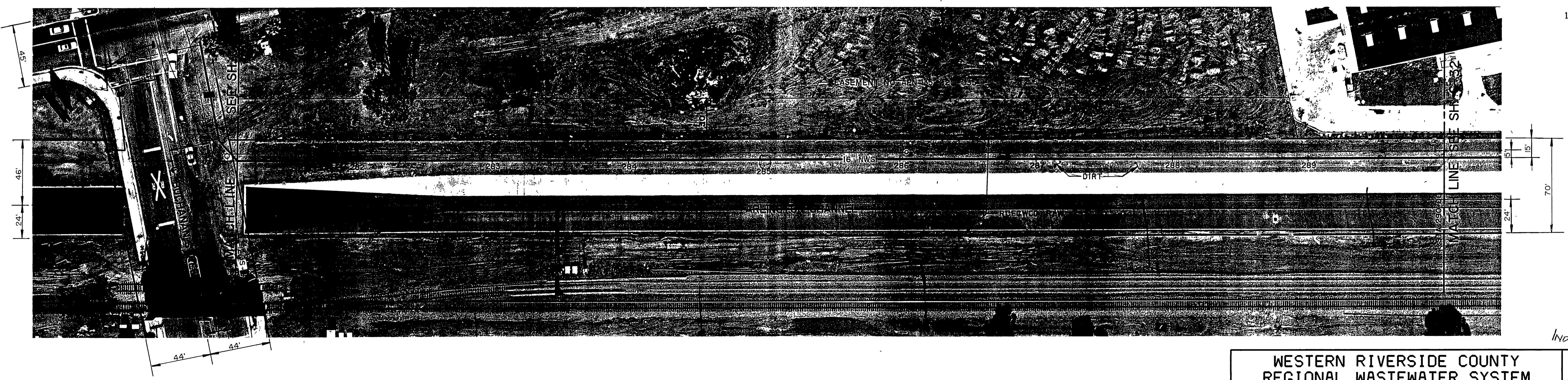
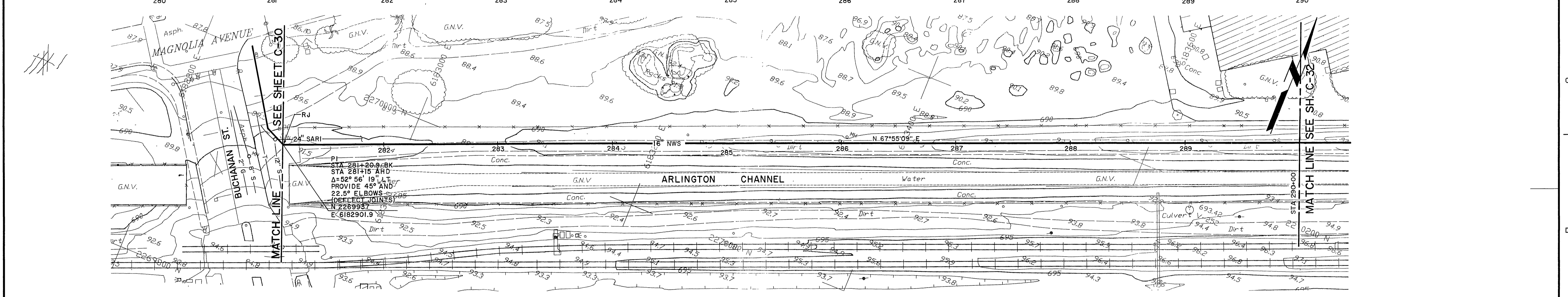
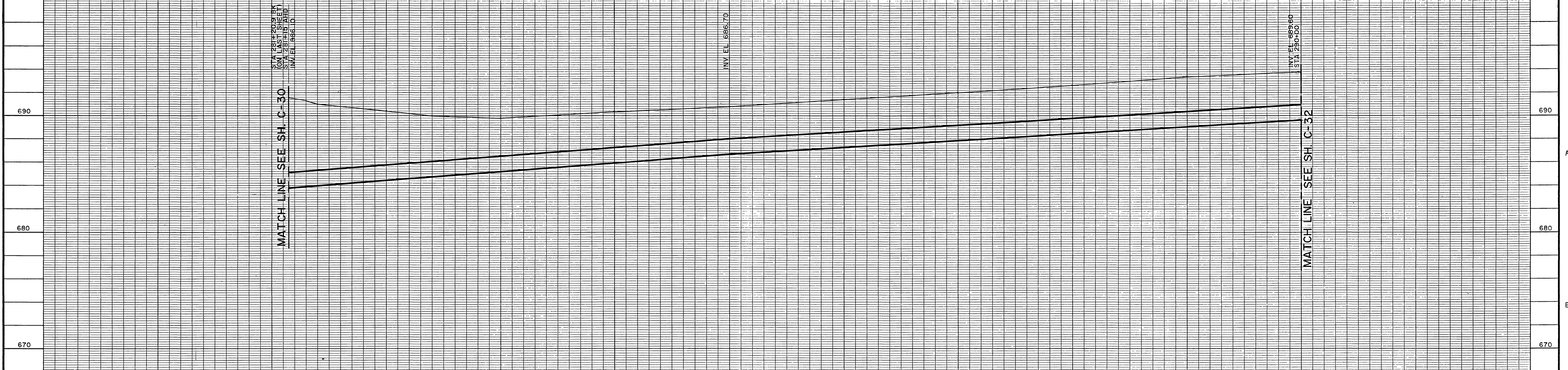
CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT

INDEXED 4-23-99 4/1

APPROVED BY *Doug Paul* PUBLIC WORKS DIRECTOR DATE 3/11/97

REGISTERED PROFESSIONAL ENGINEER
 DENTON VOSE
 No. C-49833
 EXP. 9-30-02
 CIVIL
 STATE OF CALIFORNIA

C-30
 5-1711
 SHEET 35 OF



NOTES
 1. DIMENSIONS NOT SHOWN FOR EASEMENT NO. APN 135-220-035 ARE PROVIDED IN SECTION 01500 OF THE SPECIFICATIONS.

INDEXED 4-23-99 lth

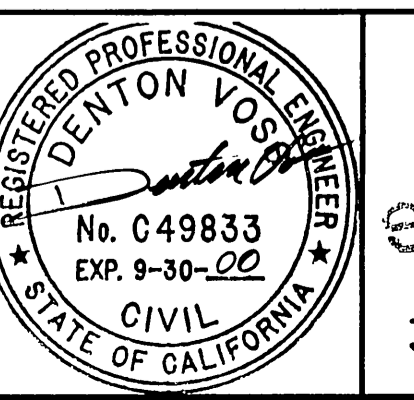
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED J.G.PK.
 DETAILED S.G.
 CHECKED G.M.C.
 APPROVED DJV
 DATE 6-16-96

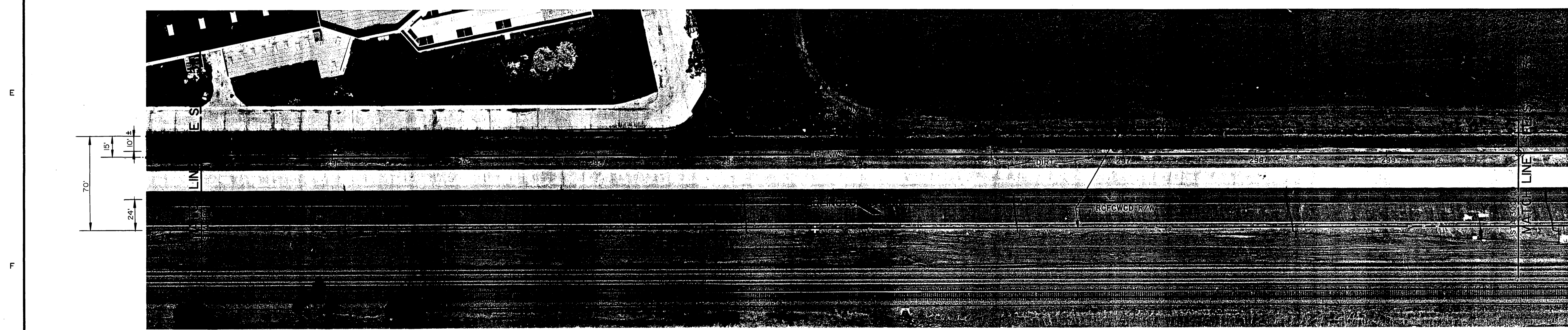
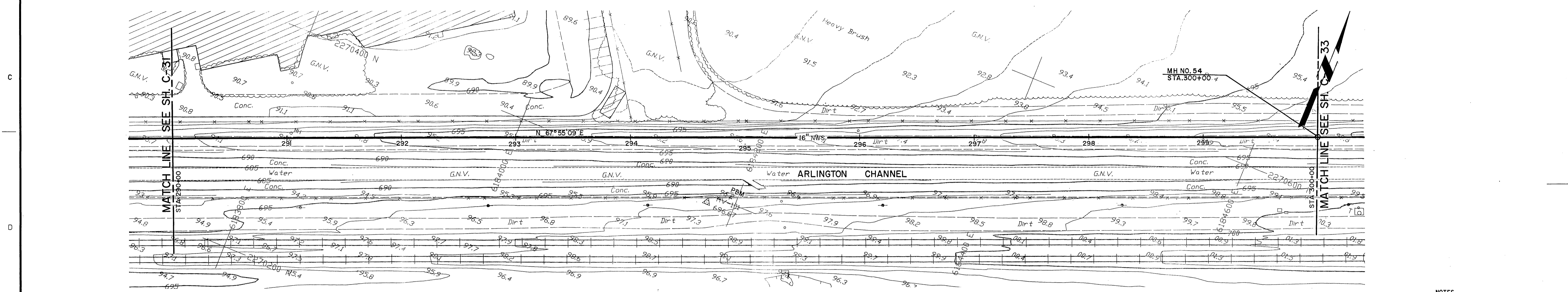
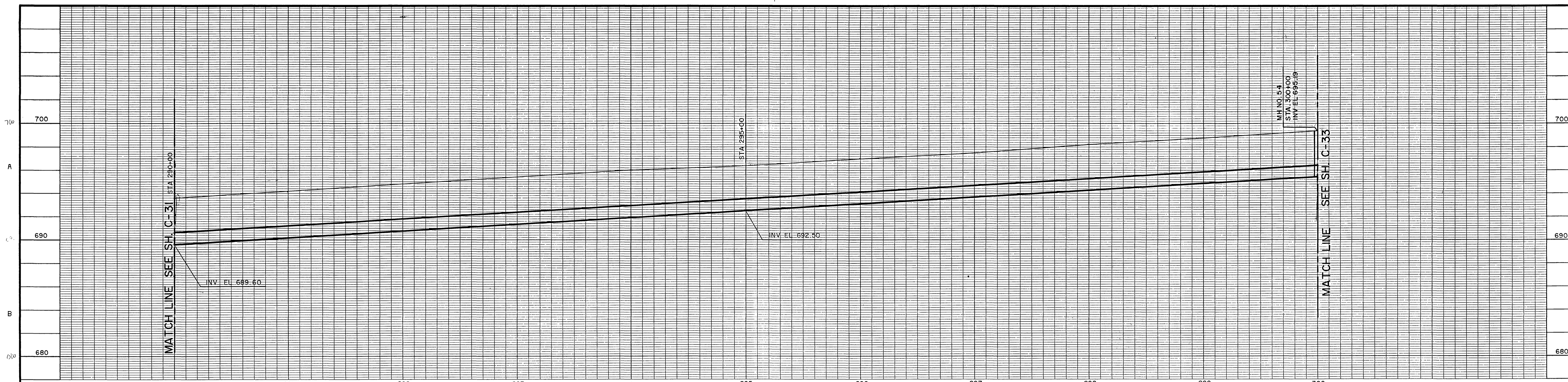


PROJECT NO.
 23068
 SCALE=
 HORIZ: 1" = 40'
 VERT: 1" = 4'

**WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM**
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE



C-31
 6-1711
 SHEET
 36 OF



NOTES
 1. DIMENSIONS NOT SHOWN FOR EASEMENT NO. APN 135-220-021, -023, -025, -027 ARE PROVIDED IN SECTION 01500 OF THE SPECIFICATIONS.

70'
 15'
 10'
 24'

70'
 10'
 15'
 24'

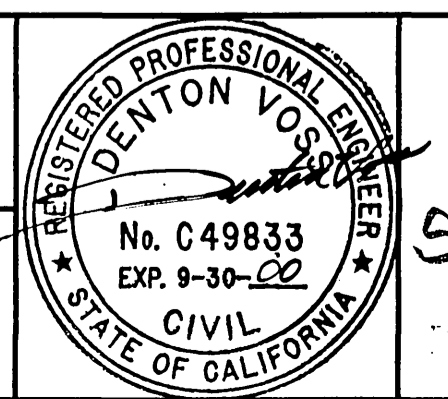
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED J.G., P.K.
 DETAILED S.G.
 CHECKED G.M.C.
 APPROVED DJN
 DATE 6-26-96



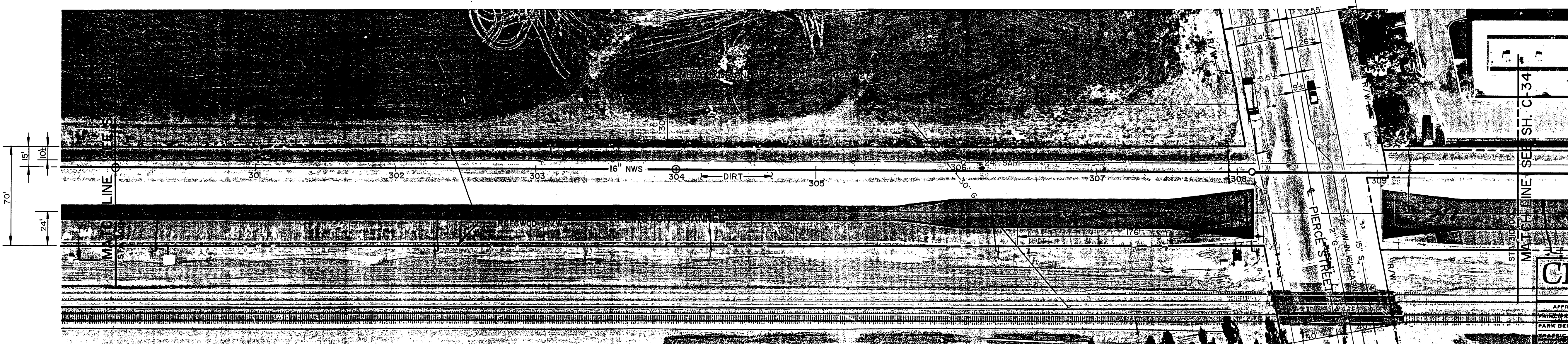
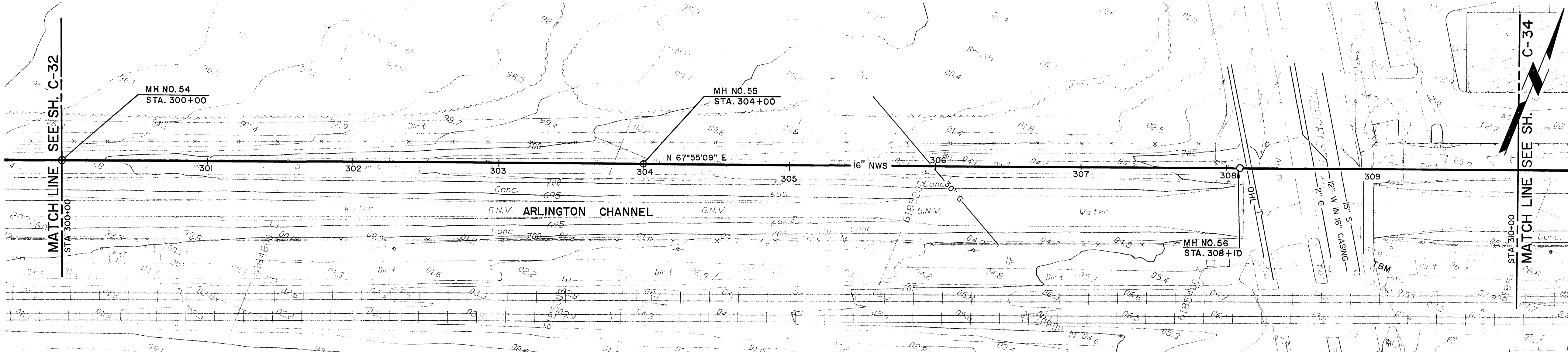
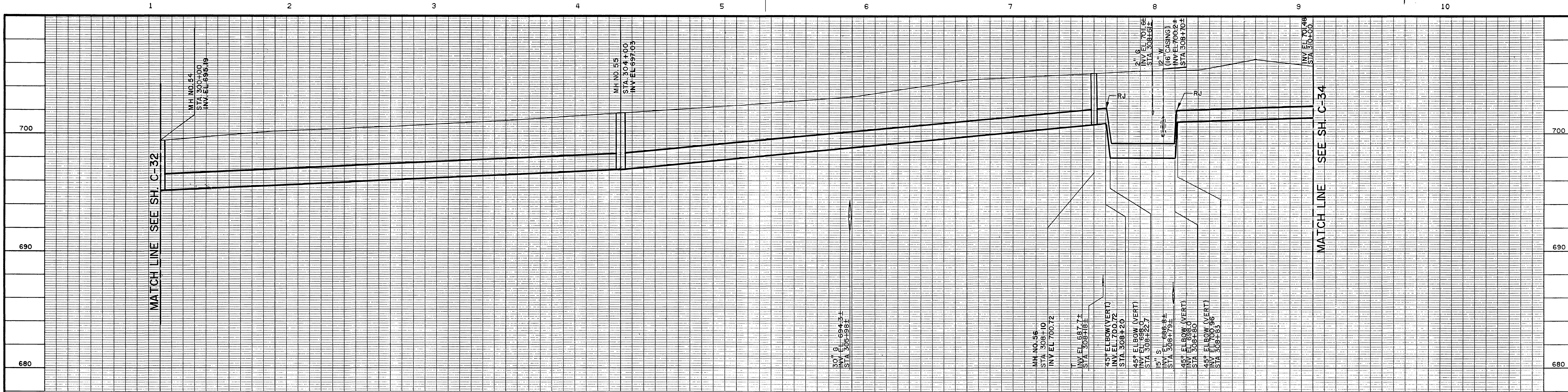
PROJECT NO.
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 SCALE=
 HORIZ: 1" = 40'
 VERT: 1" = 4'

**WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE**



C-32
 S-1711
 SHEET
 37 OF

INDEXED 4-23-99 LH



- NOTES
- CONTRACTOR SHALL OBTAIN A STREET OPENING PERMIT FROM THE CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT PRIOR TO PERFORMING ANY CONSTRUCTION IN CITY STREETS.
 - DIMENSIONS NOT SHOWN FOR EASEMENT NO. APN 135-220-021, -023, -025, -027 ARE PROVIDED IN SECTION 01500 OF THE SPECIFICATIONS.

INDEXED 4-23-99 4H

CITY OF RIVERSIDE
WATER SYSTEM
APPROVED DATE

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY	DATE
ENGINEER	3/4/97	3/4/97	3/4/97
PAVING DIVISION	3/2/97	3/2/97	3/2/97
CHIEF ENGINEER	3-2-97	3/2/97	3/2/97
PUBLIC UTIL. ELBEC.	3/17/97	3/17/97	3/17/97

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 3/20/97

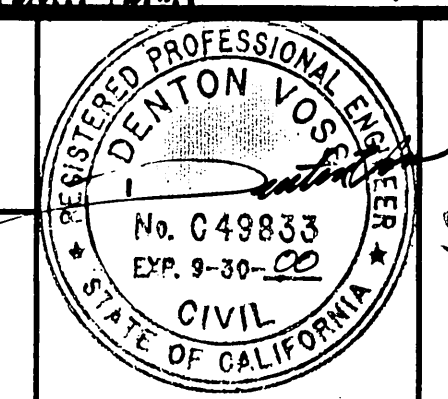
WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM
NONRECLAIMABLE WASTEWATER SEWER
PLAN AND PROFILE

PROJECT NO. 23068
SCALE = HORIZ: 1" = 40' VERT: 1" = 4'

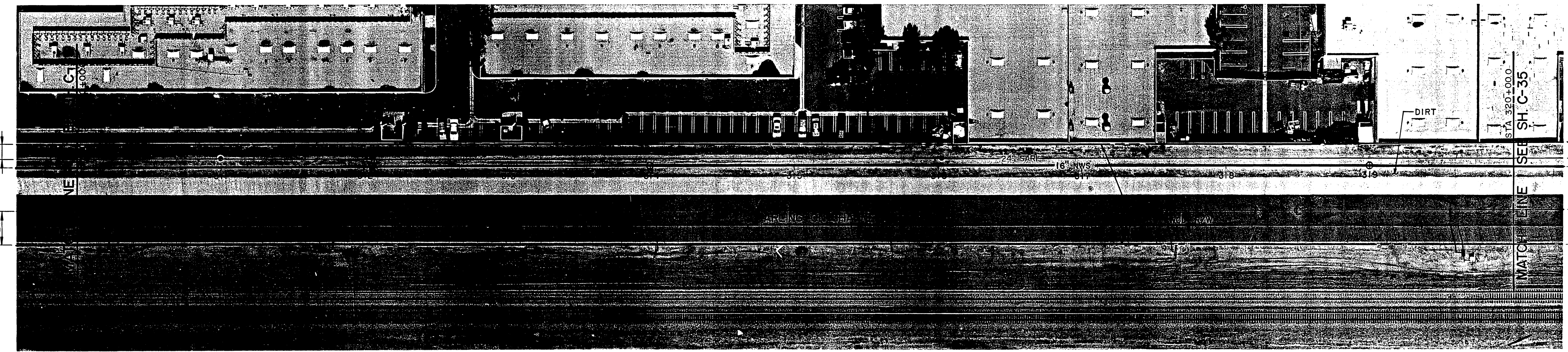
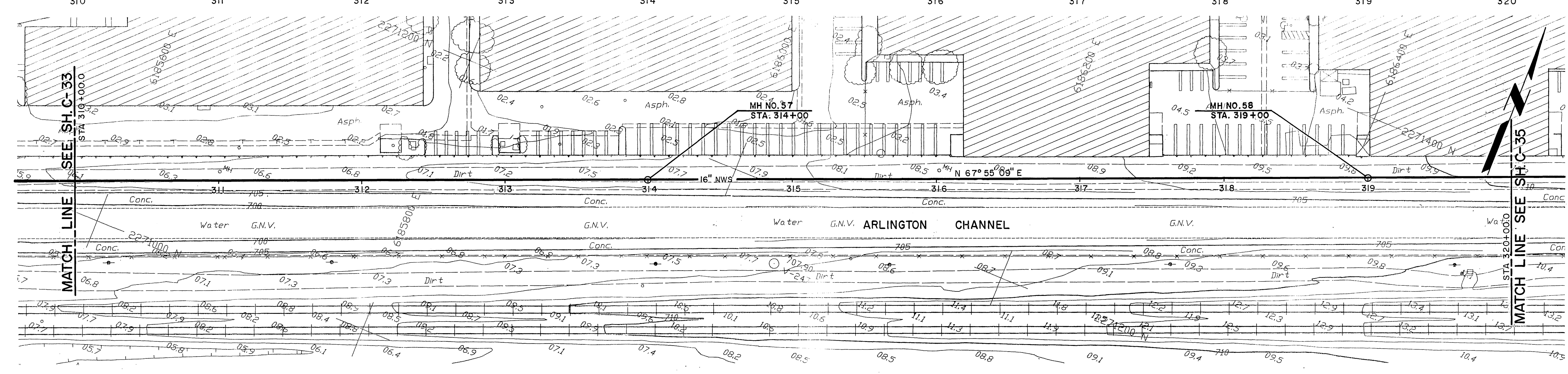
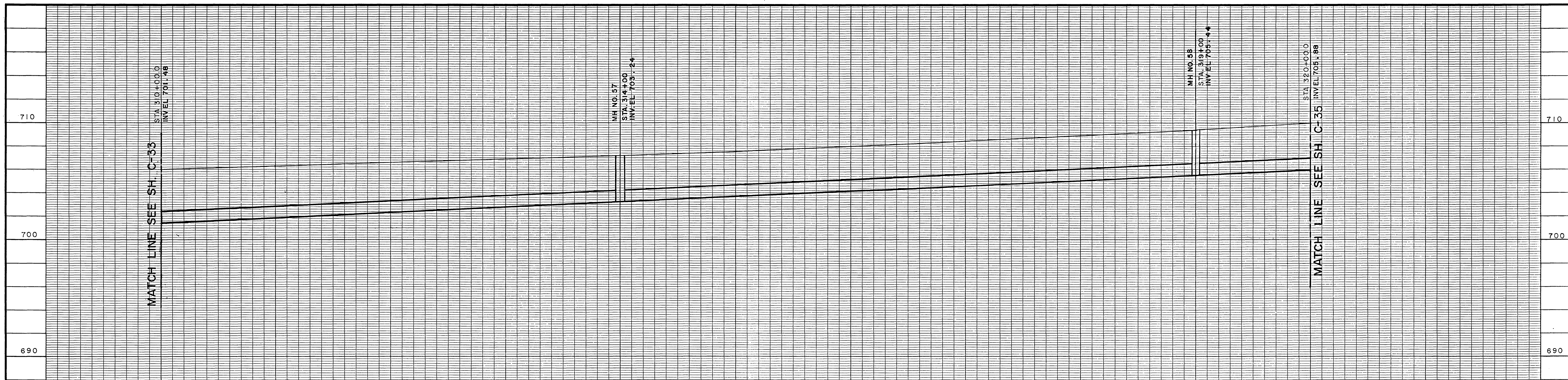
C-33
S-1711
SHEET 38 OF

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED J.G., P.K.
DETAILED S.G.
CHECKED GMC
APPROVED DJN
DATE 6-26-96



1 2 3 4 5 6 7 8 9 10



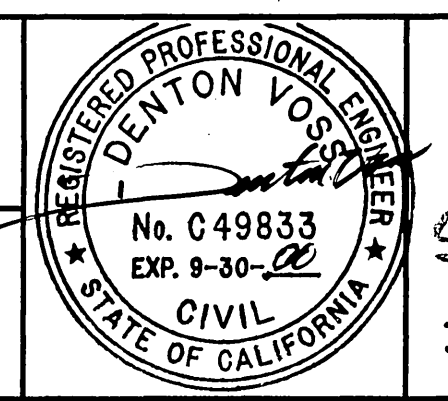
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED J.G., P.K.
 DETAILED K.T.
 CHECKED GMC
 APPROVED DJJ
 DATE 6-26-90



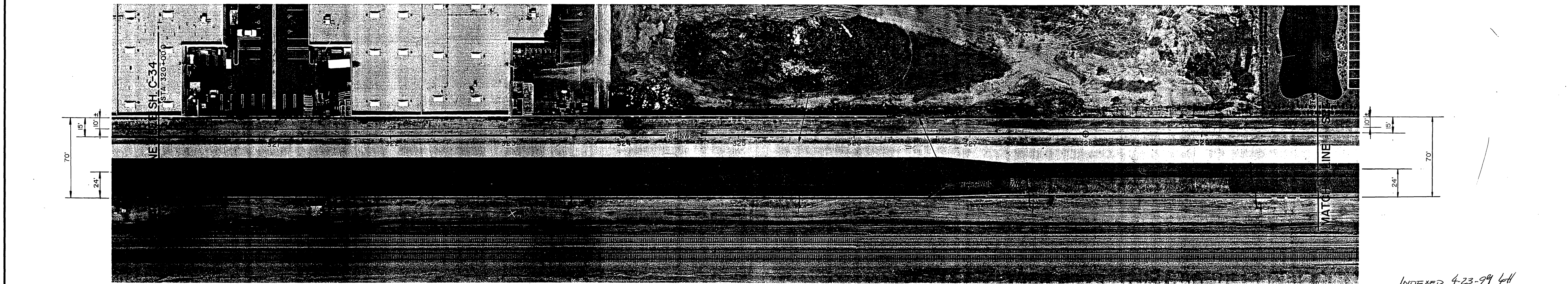
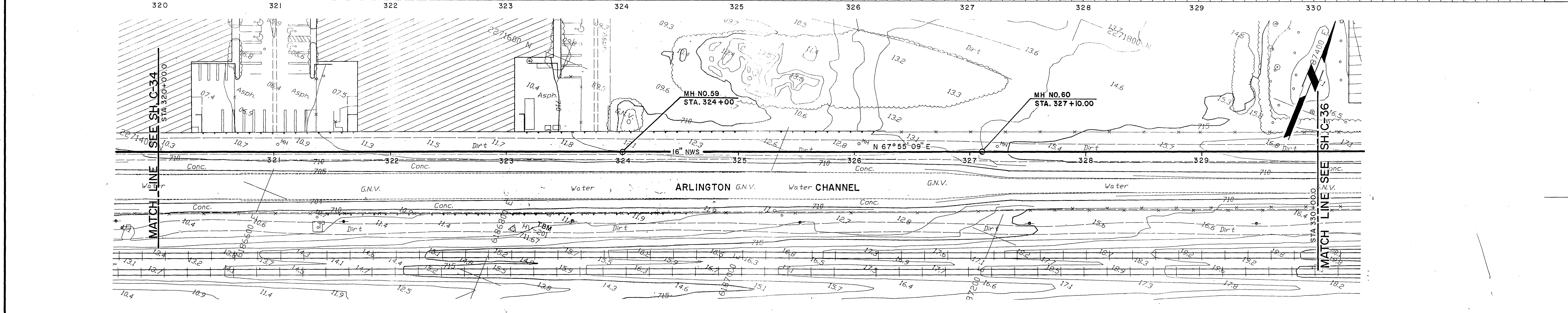
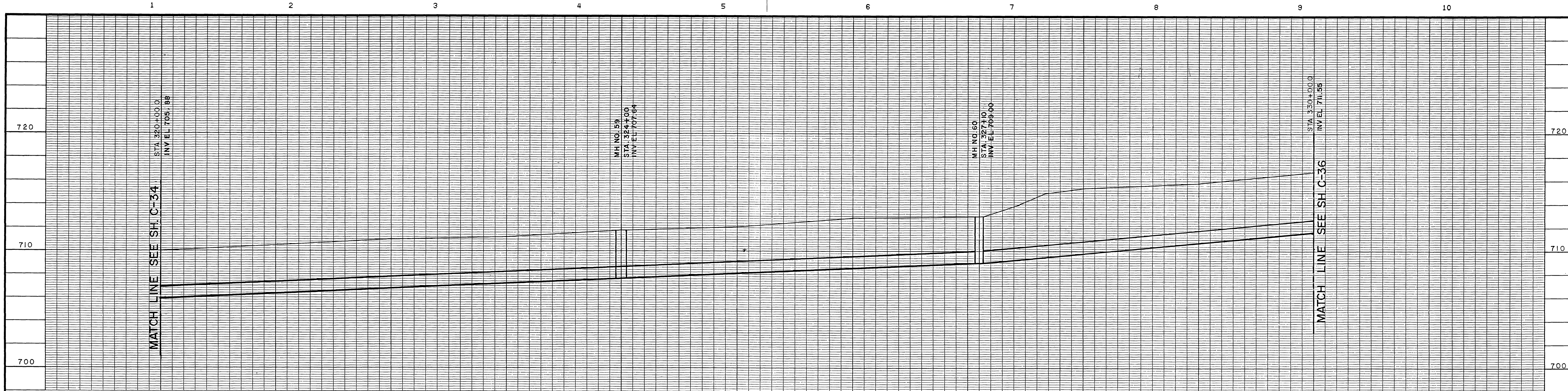
PROJECT NO.
23068
 SCALE=
 HORIZ: 1" = 40'
 VERT: 1" = 4'

WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE



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INDEXED 4-23-99 LH



NO.	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED J.G., P.K.
 DETAILED J.V., K.T.
 CHECKED GMC
 APPROVED DJV
 DATE 6-20-96

PROJECT NO. 23068

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

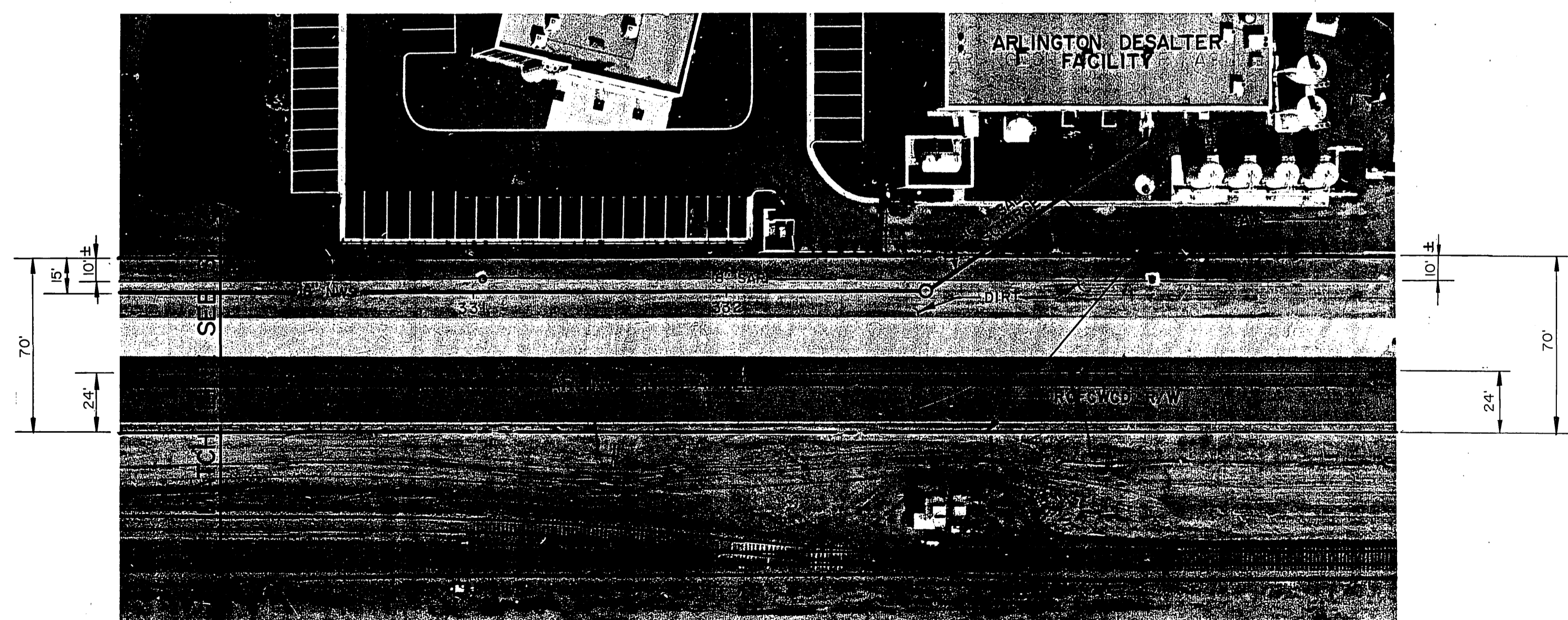
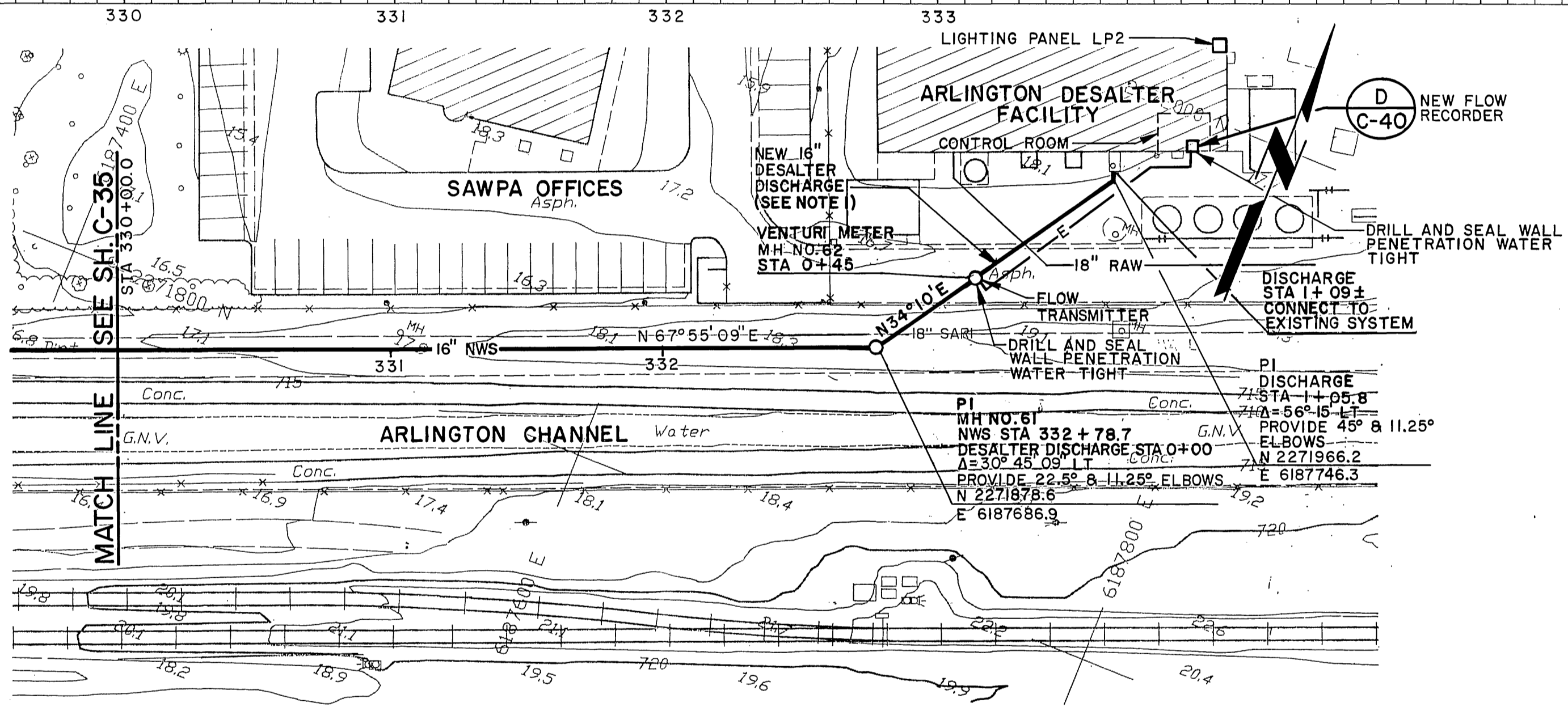
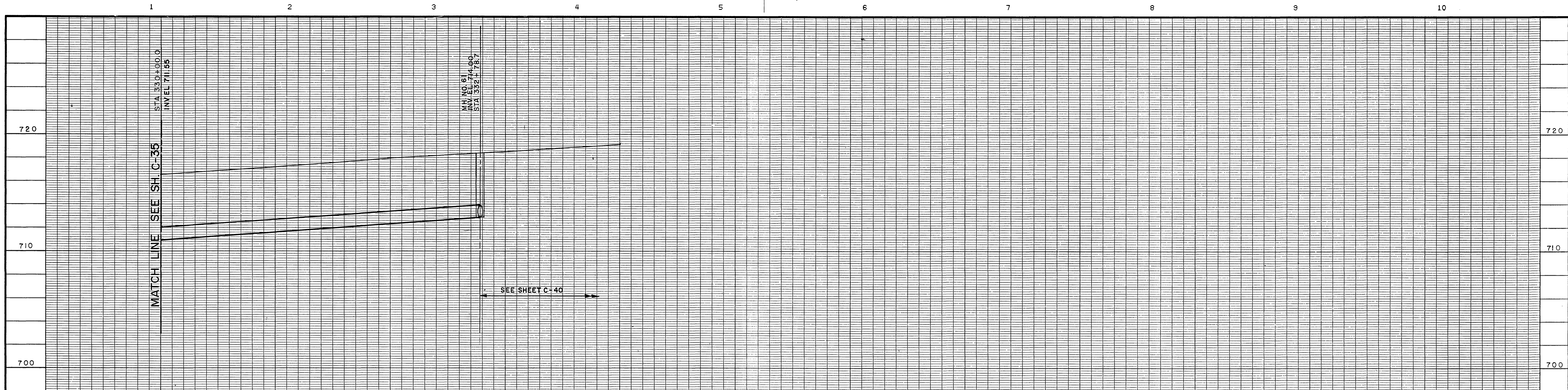


WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM

NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE

INDEXED 4-23-99 LH

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- NOTES:
- FOR PROFILE AND ADDITIONAL DETAILS OF DESALTER DISCHARGE LINE AND METERING SYSTEM, SEE SHEET C-40, DETAIL B.
 - COORDINATE CONNECTION AT THE ARLINGTON DESALTER WITH SAWPA.

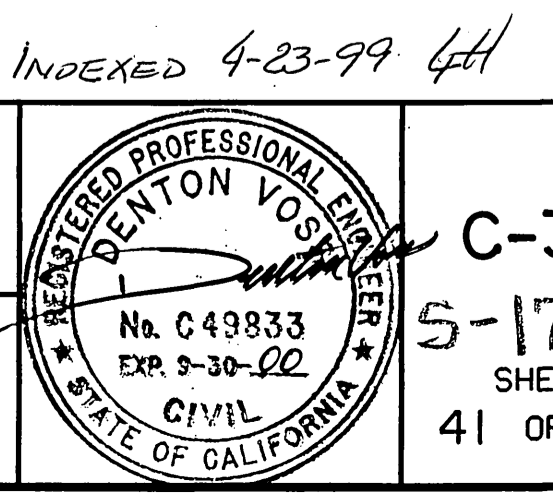
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED J.G., P.K.
 DETAILED _____, K.T.
 CHECKED G.M.C.
 APPROVED *DJN*
 DATE 6-26-96



PROJECT NO.
23068
 SCALE=
 HORIZ: 1" = 40'
 VERT: 1" = 4'

WESTERN RIVERSIDE COUNTY
 REGIONAL WASTEWATER SYSTEM
 SOUTH REGIONAL COLLECTION SYSTEM
 NONRECLAIMABLE WASTEWATER SEWER
 PLAN AND PROFILE

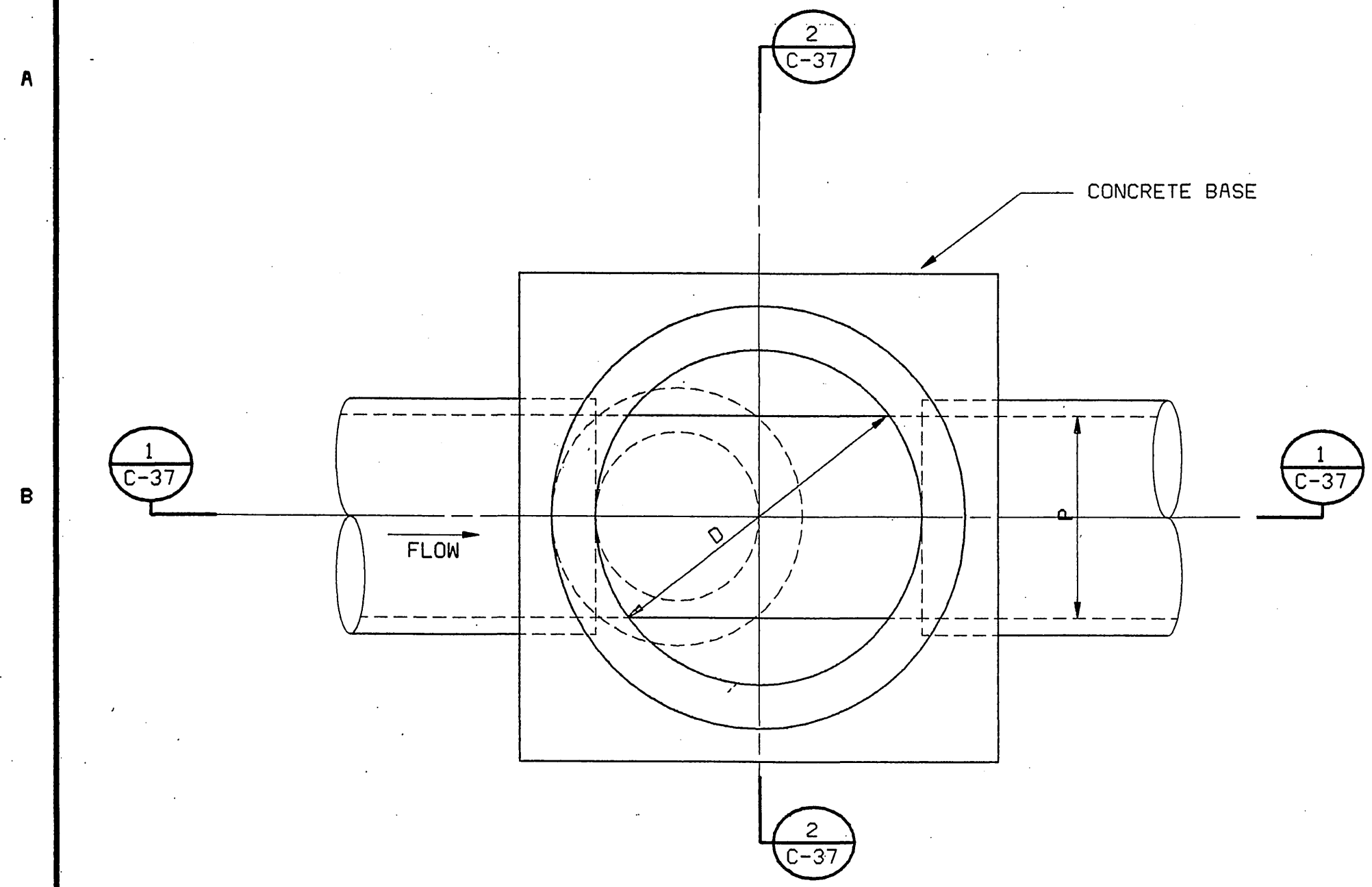


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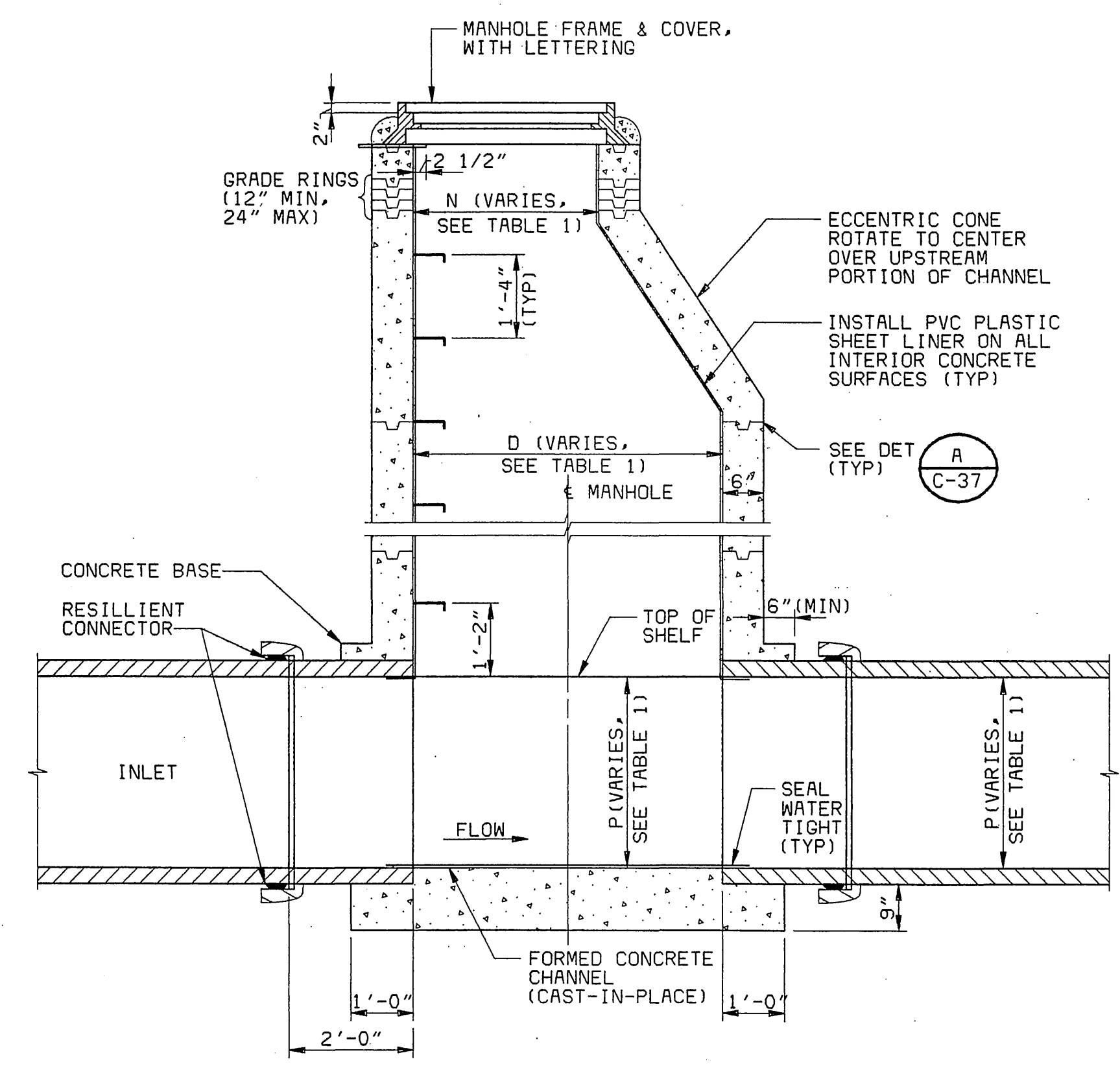
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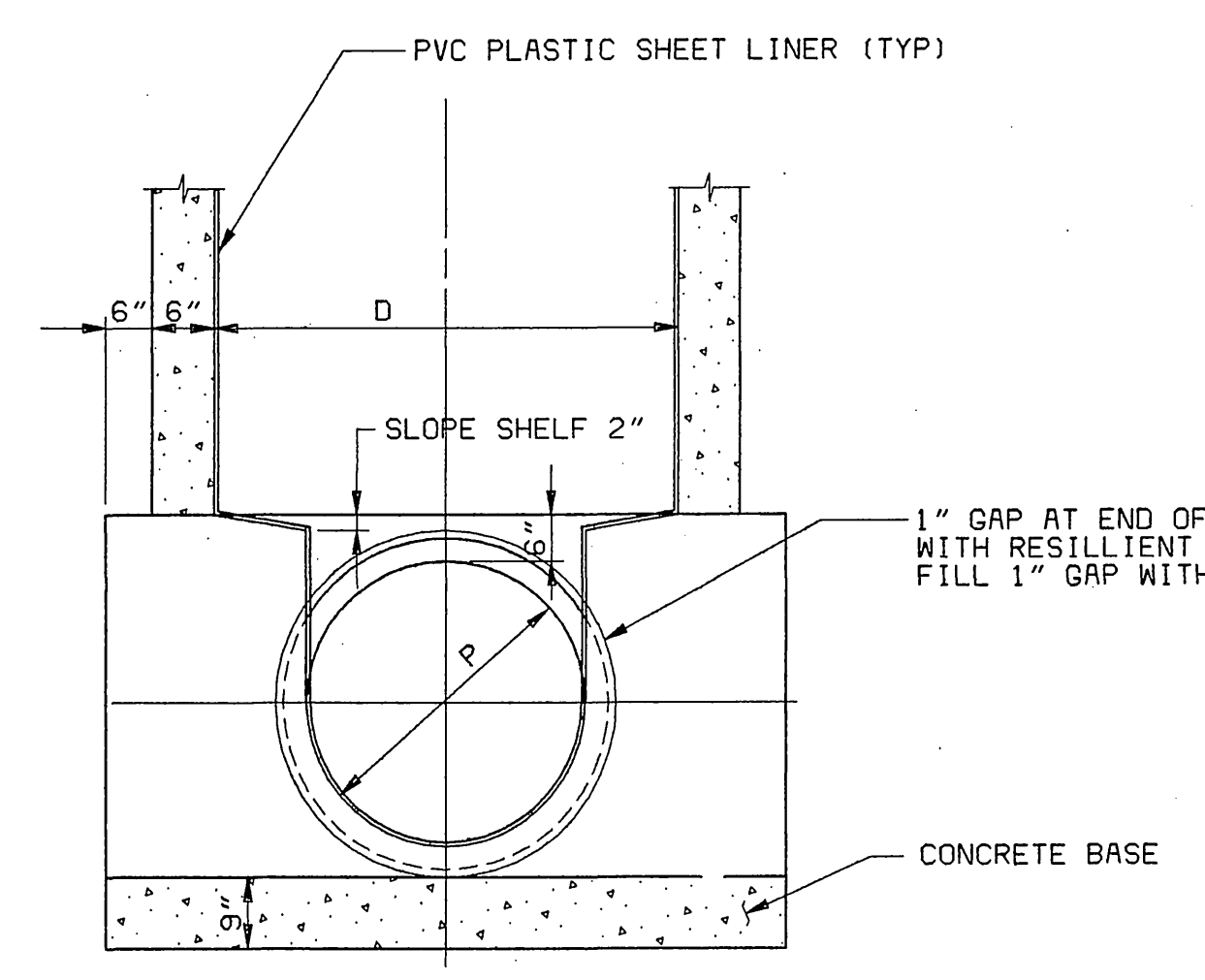
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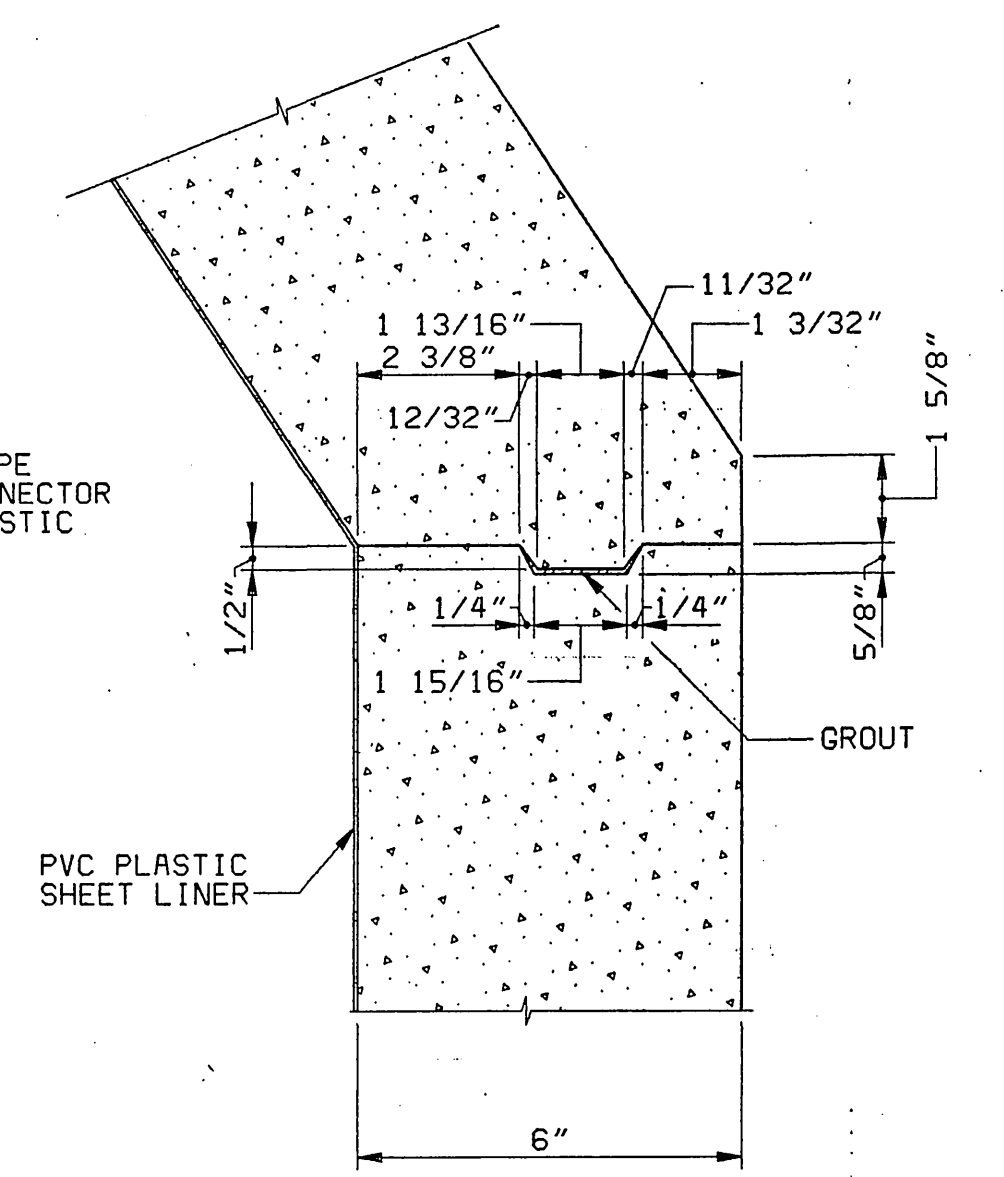
MANHOLE PLAN
NO SCALE



MANHOLE SECTION 1
NO SCALE



MANHOLE SECTION 2
NO SCALE



JOINT DETAIL A
NO SCALE

GENERAL NOTES:

1. ALL MANHOLE RINGS TO BE SET IN NONSHRINKING GROUT.
2. ALL INTERIOR CONCRETE SURFACES SHALL BE LINED WITH PVC PLASTIC SHEET LINER.

TABLE 1

	P ≤ 24"	P=27" TO 36"
D	4'-0"	5'-0"
N	2'-0"	3'-0"
MANHOLE FRAME & COVER	SEE SPECIFICATIONS	SEE SPECIFICATIONS

- P - NOMINAL PIPE SIZE
- D - MANHOLE INSIDE DIAMETER
- N - MANHOLE NECK INSIDE DIAMETER

INDEXED 4-23-99 *gh*

CB01040.VPL
FC063066.XXX.ATB.VPL

DESIGNED JTG,PMK
DETAILED CND
CHECKED GMC
APPROVED DJV
DATE 6-26-96



PROJECT NO.
23068
SCALE=
NO SCALE

WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM

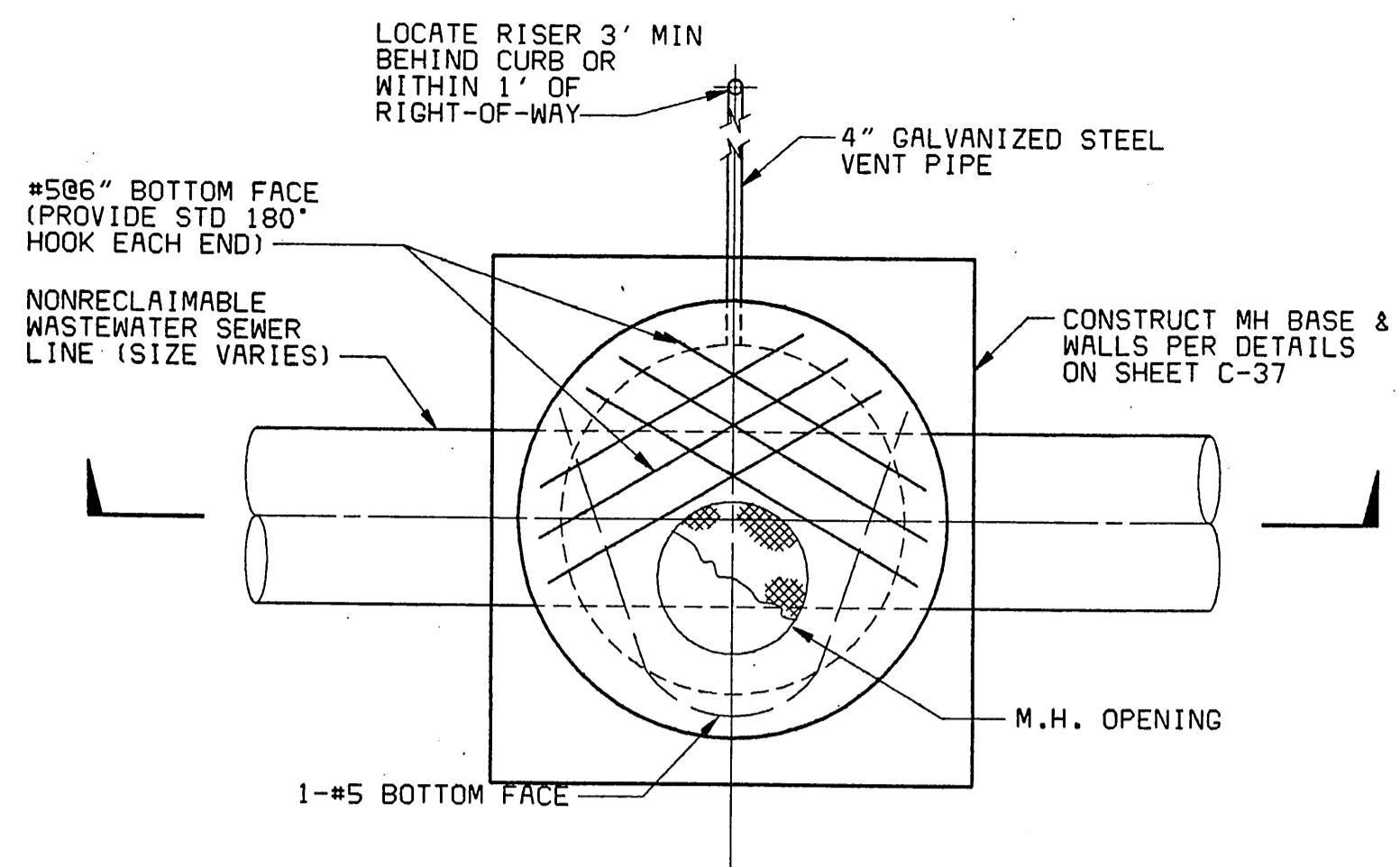
NONRECLAIMABLE WASTEWATER SEWER
MANHOLE DETAILS

REGISTERED PROFESSIONAL ENGINEER
DENTON VOEGELIUS
No. C49833
EXP. 9-30-00
CIVIL ENGINEER

C-37
S-1711
SHEET
42 OF

10/21/96 16:06:42 VPL
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1 2 3 4 5 6 7 8 9 10

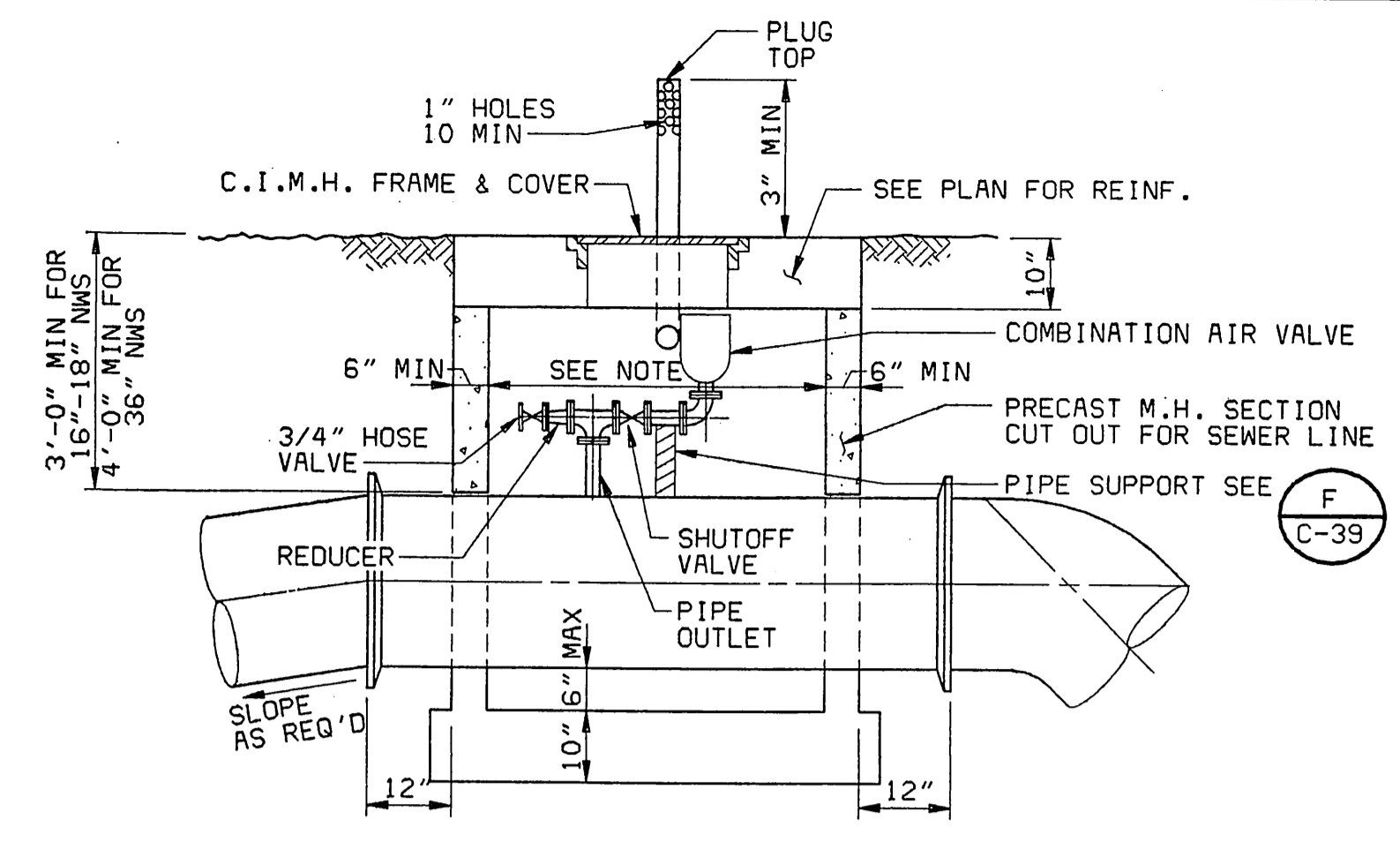


PLAN

NOTE:

MANHOLE DIAMETER IS 4'-0" FOR 16" AND 18" NWS, 5'-0" FOR 36" NWS.

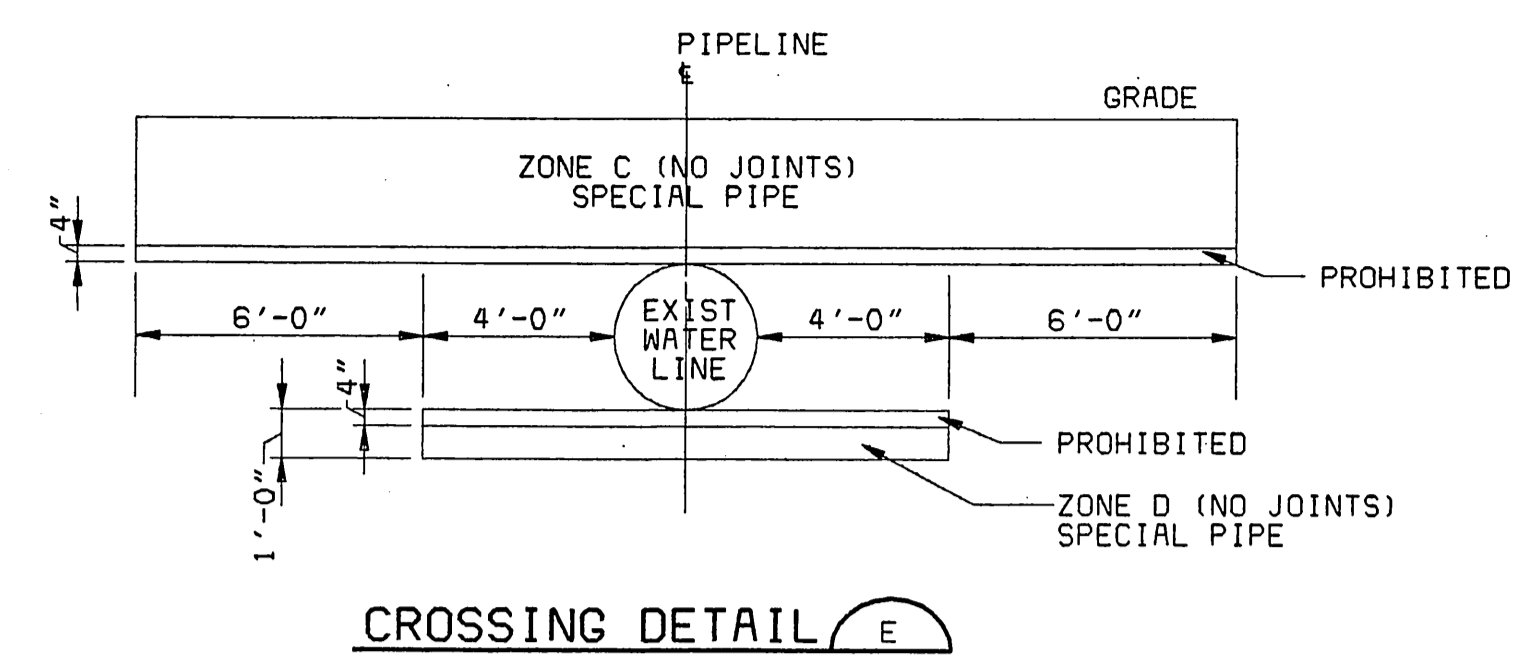
SECTION



NWS PIPE SIZE	COMBINATION AIR VALVE SIZE	SHUTOFF VALVE SIZE	ASSEMBLY PIPE SIZE
16"	1"	1"	1"
18"	1 1/2"	1 1/2"	1 1/2"
36"	4"	4"	4"

AIR RELEASE VALVE MANHOLE DETAIL A

NO SCALE

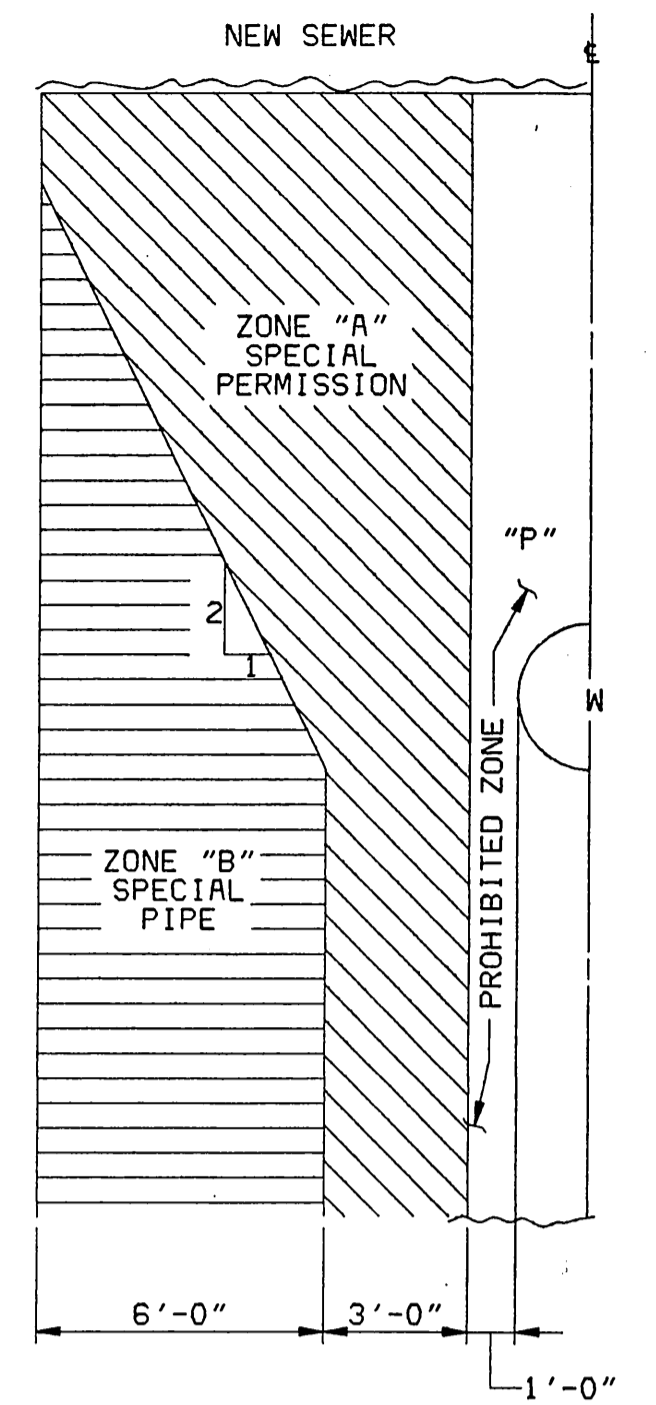


CROSSING DETAIL E

PLACEMENT OF A NEW SEWER CROSSING AN EXISTING WATER LINE MUST COMPLY WITH THE SPECIAL CONSTRUCTION REQUIREMENTS LISTED BELOW (AS REQUIRED BY THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES).

SPECIAL CONSTRUCTION REQUIRED FOR SEWER

- C** A SEWER LINE CROSSING A WATER MAIN SHALL BE CONSTRUCTED OF:
1. DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING AND MECHANICAL JOINTS.
 2. A CONTINUOUS SECTION OF CLASS 200 (DR 14 PER AWWA C900 OR C905) PLASTIC PIPE OR EQUIVALENT, CENTERED OVER THE PIPE BEING CROSSED.
 3. A CONTINUOUS SECTION OF REINFORCED CONCRETE PRESSURE PIPE (PER AWWA C302-74) CENTERED OVER THE PIPE BEING CROSSED.
 4. ANY SEWER PIPE WITHIN A CONTINUOUS SLEEVE.
- D** A SEWER LINE CROSSING A WATER MAIN SHALL BE CONSTRUCTED OF:
1. A CONTINUOUS SECTION OF DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING.
 2. A CONTINUOUS SECTION OF CLASS 200 (DR 14 PER AWWA C900 OR C905) PLASTIC PIPE OR EQUIVALENT, CENTERED ON THE PIPE BEING CROSSED.
 3. A CONTINUOUS SECTION OF REINFORCED CONCRETE PRESSURE PIPE (PER AWWA C302-74) CENTERED ON THE PIPE BEING CROSSED.
 4. ANY SEWER PIPE WITHIN A CONTINUOUS SLEEVE.
 5. ANY SEWER PIPE SEPARATED BY A TEN-FOOT BY TEN-FOOT, FOUR-INCH THICK REINFORCED CONCRETE SLAB.



NOTE:

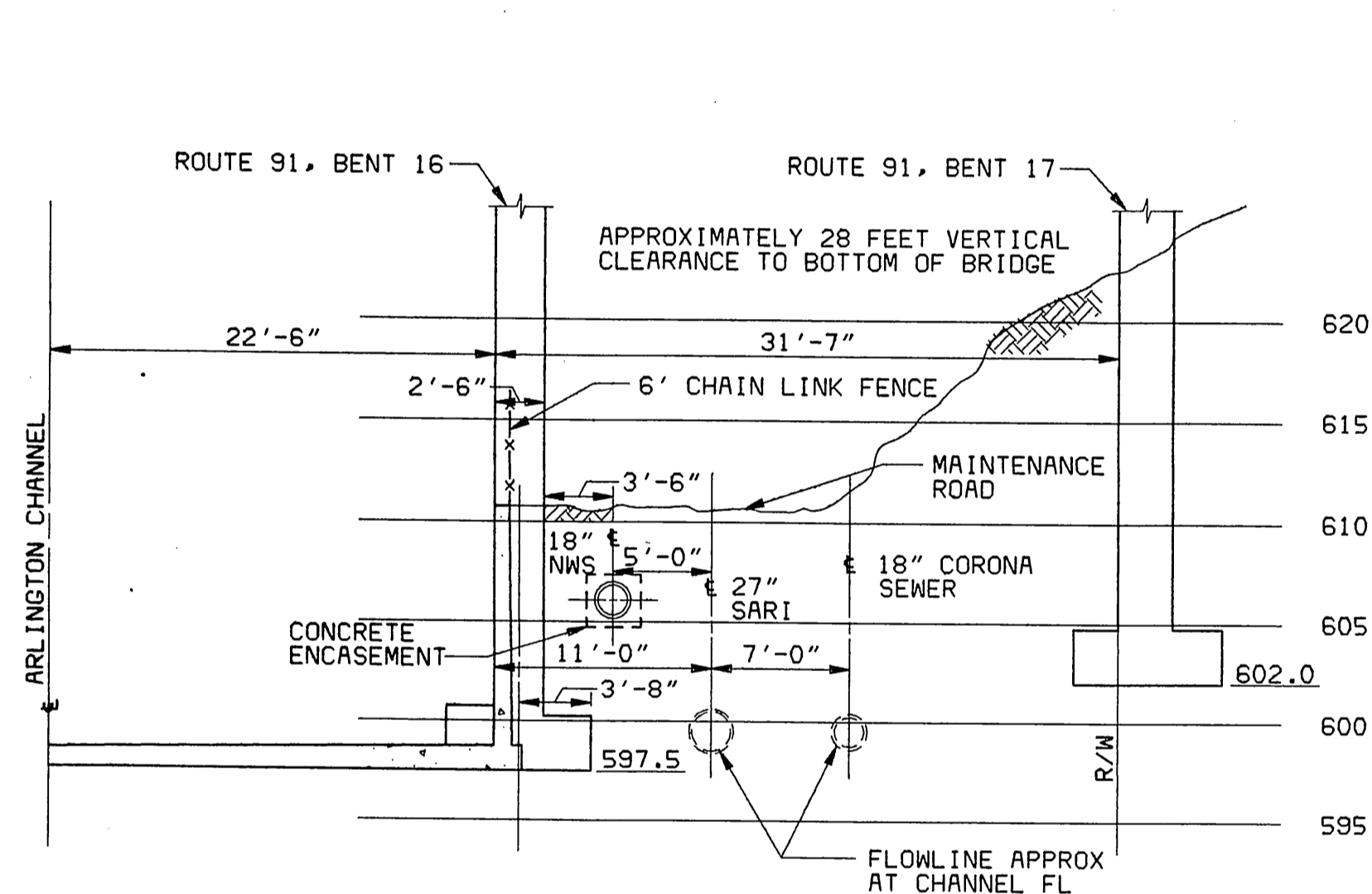
ZONES IDENTICAL ON EITHER SIDE OF CENTER LINE. ZONE "P" IS A PROHIBITED ZONE, SECTION 64630 (E) (2) CALIFORNIA ADMINISTRATIVE CODE, TITLE 22

PARALLEL CONSTRUCTION DETAIL F

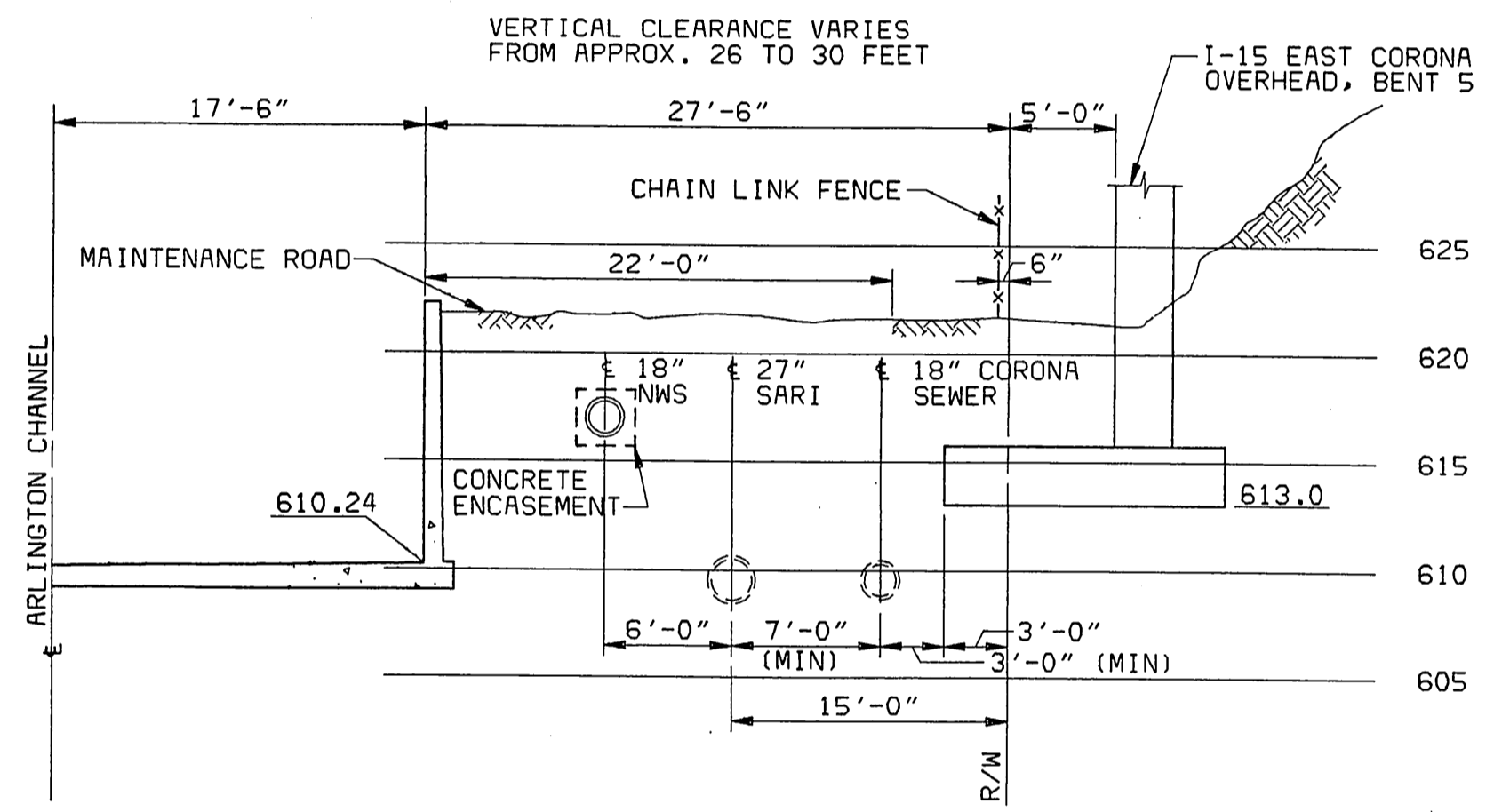
PLACEMENT OF A NEW SEWER PARALLEL TO AND WITHIN 10 FEET OF AN EXISTING WATER LINE MUST COMPLY WITH THE SPECIAL CONSTRUCTION REQUIREMENTS LISTED BELOW (AS REQUIRED BY THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES).

SPECIAL CONSTRUCTION REQUIRED FOR SEWER

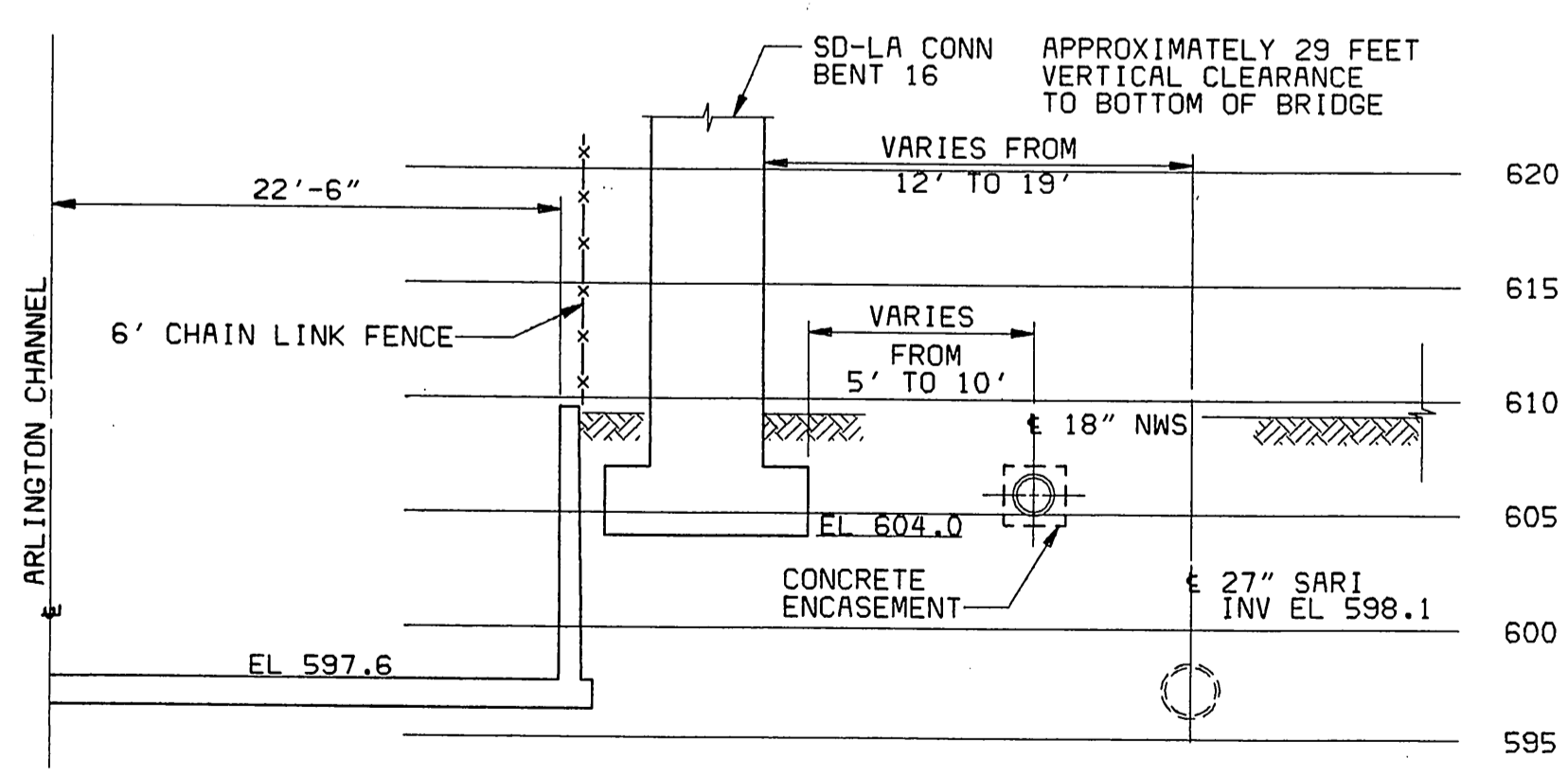
- A** SEWER LINES PARALLEL TO WATER MAINS SHALL NOT BE PERMITTED IN THIS ZONE WITHOUT APPROVAL FROM THE RESPONSIBLE HEALTH AGENCY AND WATER SUPPLIER.
- B** A SEWER LINE PLACED PARALLEL TO A WATER LINE SHALL BE CONSTRUCTED OF:
1. EXTRA STRENGTH VITRIFIED CLAY PIPE WITH COMPRESSION JOINTS.
 2. CLASS 4000, TYPE II, ASBESTOS-CEMENT PIPE WITH RUBBER GASKET JOINTS.
 3. PLASTIC SEWER PIPE WITH RUBBER RING JOINTS (PER ASTM D3034) OR EQUIVALENT.
 4. CAST OR DUCTILE IRON PIPE WITH COMPRESSION JOINTS.
 5. REINFORCED CONCRETE PRESSURE PIPE WITH COMPRESSION JOINTS (PER AWWA C302-74).



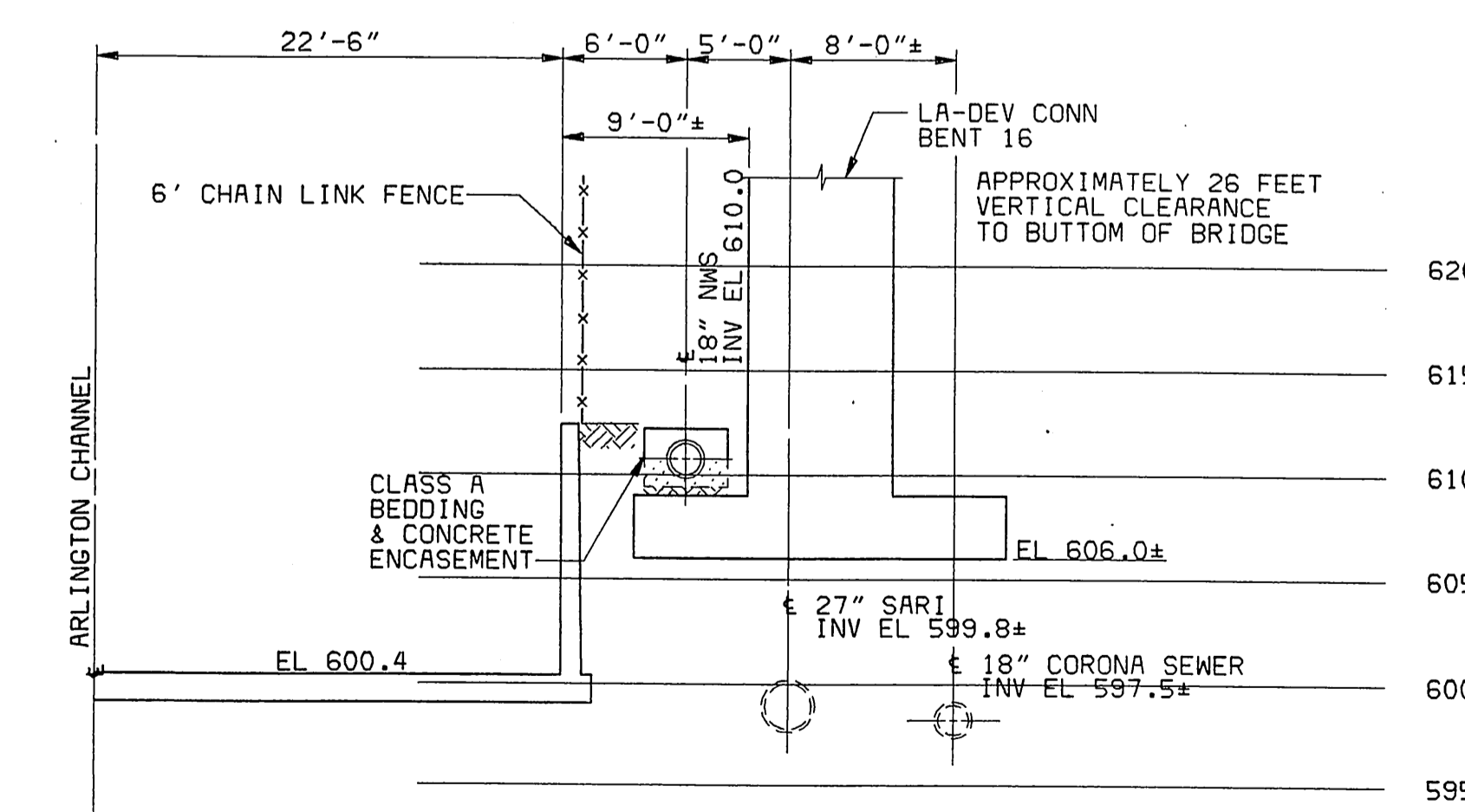
SECTION AT 91 FREEWAY C
1/8"=1'-0"
(CALTRANS-TEMESCAL WASH BRIDGE)



SECTION AT I-15 FREEWAY D
1/8"=1'-0"
(CALTRANS-EAST CORONA OVERHEAD)



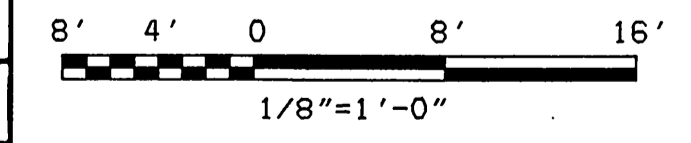
SECTION AT 91 FREEWAY G
1/8"=1'-0"
(I-15 TO 91 TRANSITION)
(CALTRANS-TEMESCAL WASH BRIDGE, SD-LA CONN)



SECTION AT 91 FREEWAY H
1/8"=1'-0"
(91 FWY TO I-15 TRANSITION)
(CALTRANS-TEMESCAL WASH BRIDGE, LA-DEV CONN)

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	APPROVED BY	DATE
PRINCIPAL ENGINEER		PUBLIC WORKS DIRECTOR	
TRAFFIC DIVISION			
CHIEF P. W. ENGINEER			
PUBLIC UTIL. ELEC.			



INDEXED 4-23-99 4th

CITY OF RIVERSIDE
WATER SYSTEM

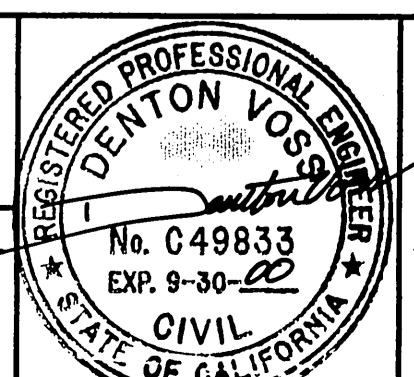
Richard J. Dinkel 2-27-97
APPROVED DATE

PROJECT NO.
23068

SCALE=
AS NOTED

WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM

NONRECLAIMABLE WASTEWATER SEWER
MISCELLANEOUS DETAILS

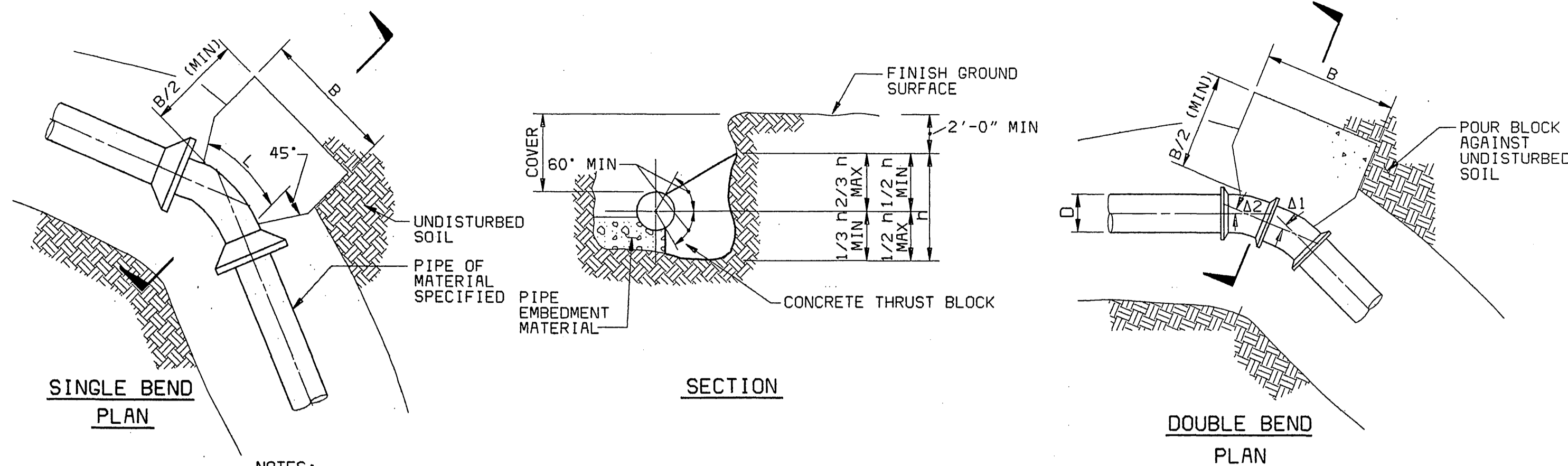


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5-1711
SHEET
43 OF

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED: JTG
DETAILED: SSH/CND
CHECKED: GMC
APPROVED: DJV
DATE: 6-16-96

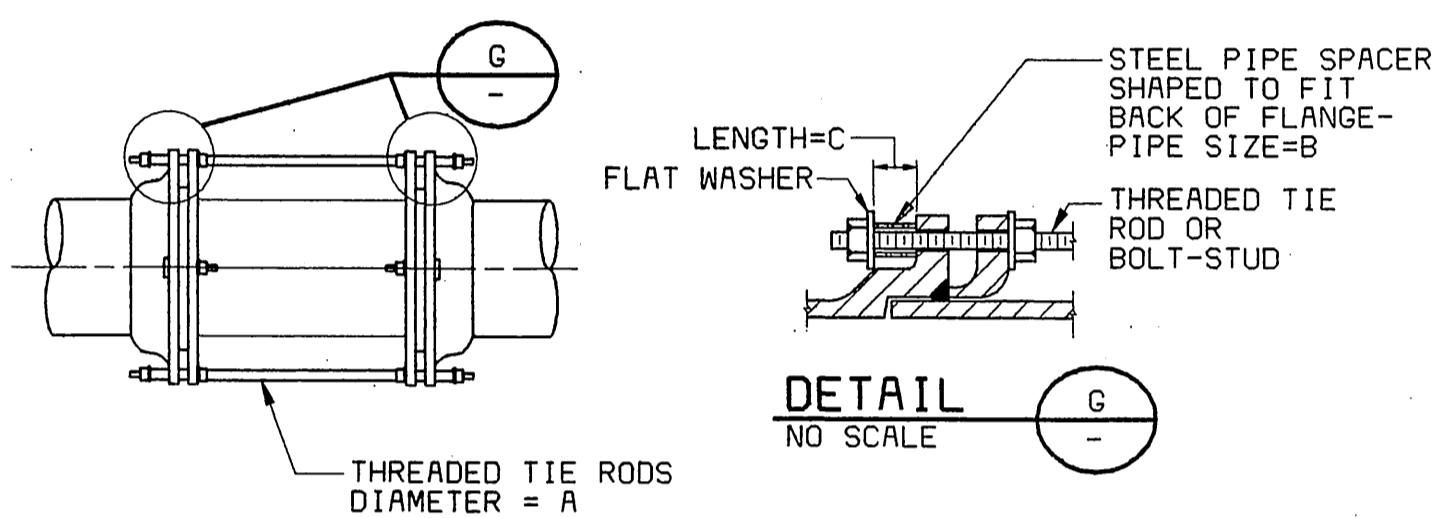




NOTES:

1. AREA OF BLOCK, A = Bxh. BLOCK AREAS ARE SHOWN ON GENERAL LAYOUT OR TABLE.
2. B = h = V/A, EXCEPT WHERE TOP OF BLOCK IS WITHIN 2 FEET FROM GROUND SURFACE, THEN B = A/h.
3. MINIMUM BLOCK DIMENSION (B & h) SHALL BE AT LEAST OD OF PIPE OR 1 FOOT FOR PIPE OD 12" OR LESS.
4. THE BOTTOM OF THE BLOCK SHALL EXTEND AT LEAST TO THE BOTTOM OF THE TRENCH IN ALL CASES.
5. L=FITTING LENGTH MINUS CLEARANCE FOR BELLS.

CONCRETE THRUST BLOCKING (A)
NO SCALE

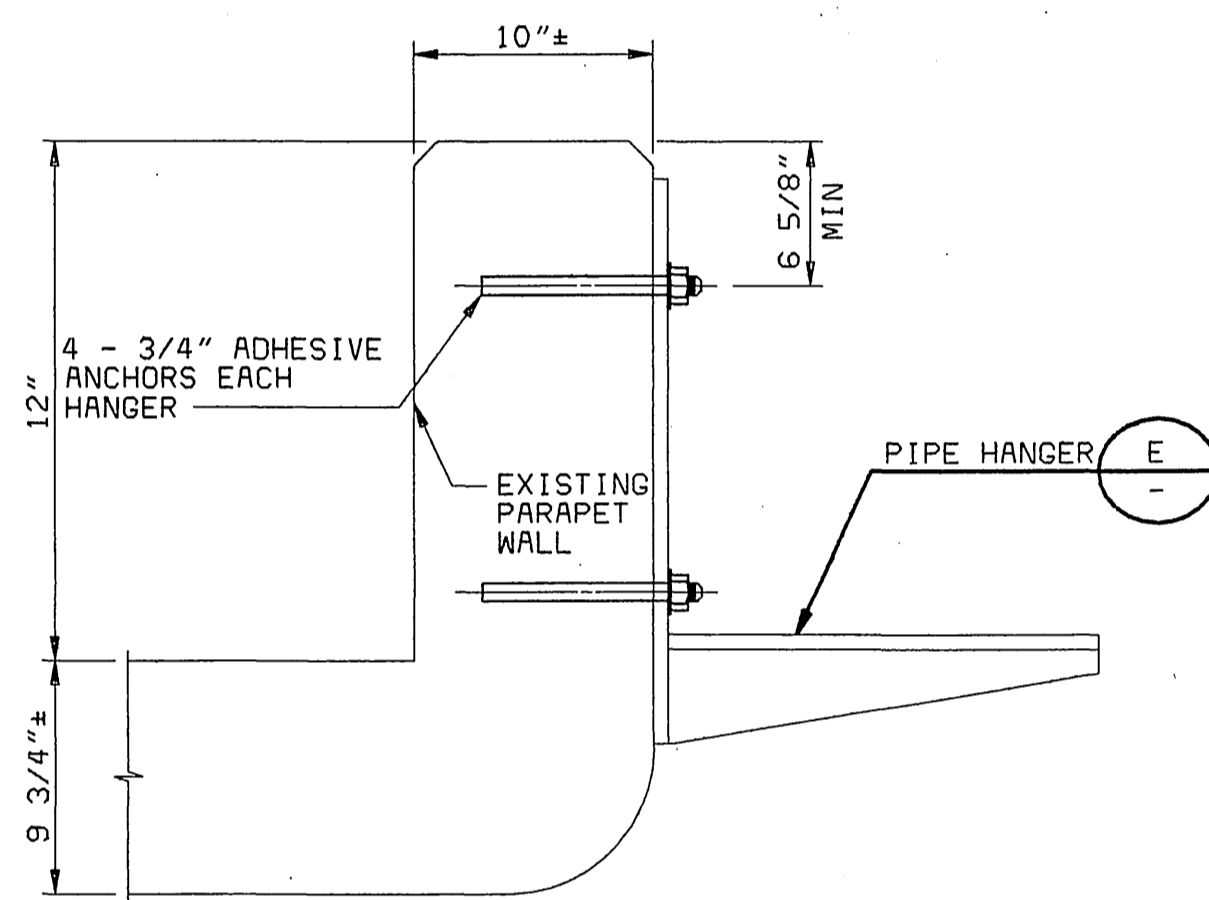


PIPE SIZE	TIE ROD DIAMETER	B SPACER NOM DIA	C SPACER LENGTH
14" TO 24"	5/8"	3/4"	3 1/2"
30" & 36"	7/8"	1"	4"

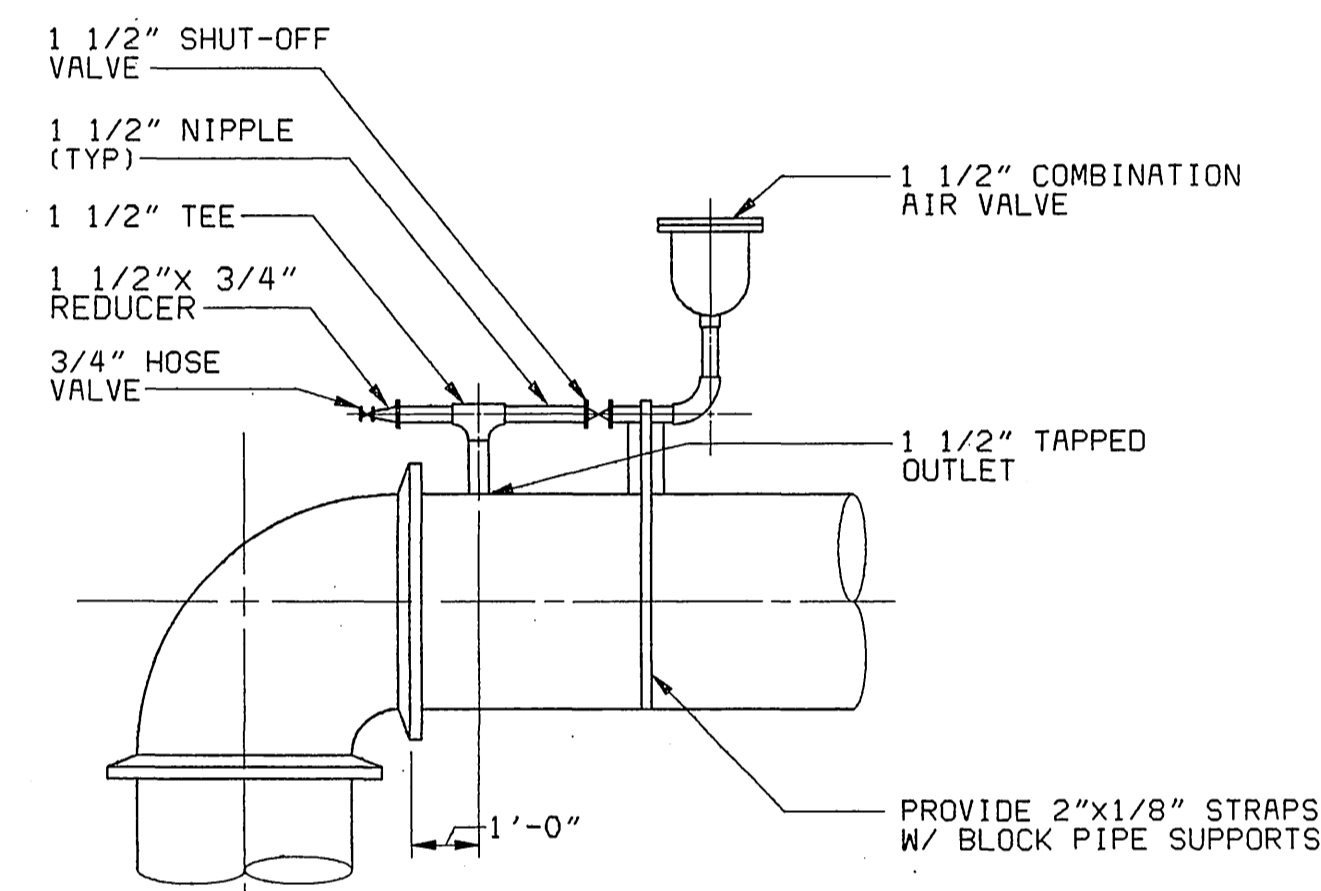
NOTES:

1. EXCEPT WHERE TIE RODS ARE REQUIRED, BOLTS FOR FOLLOWER RINGS SHALL BE TEE HEAD BOLTS.
2. NUMBER OF TIE RODS: 16",6; 18",8; 36",12.

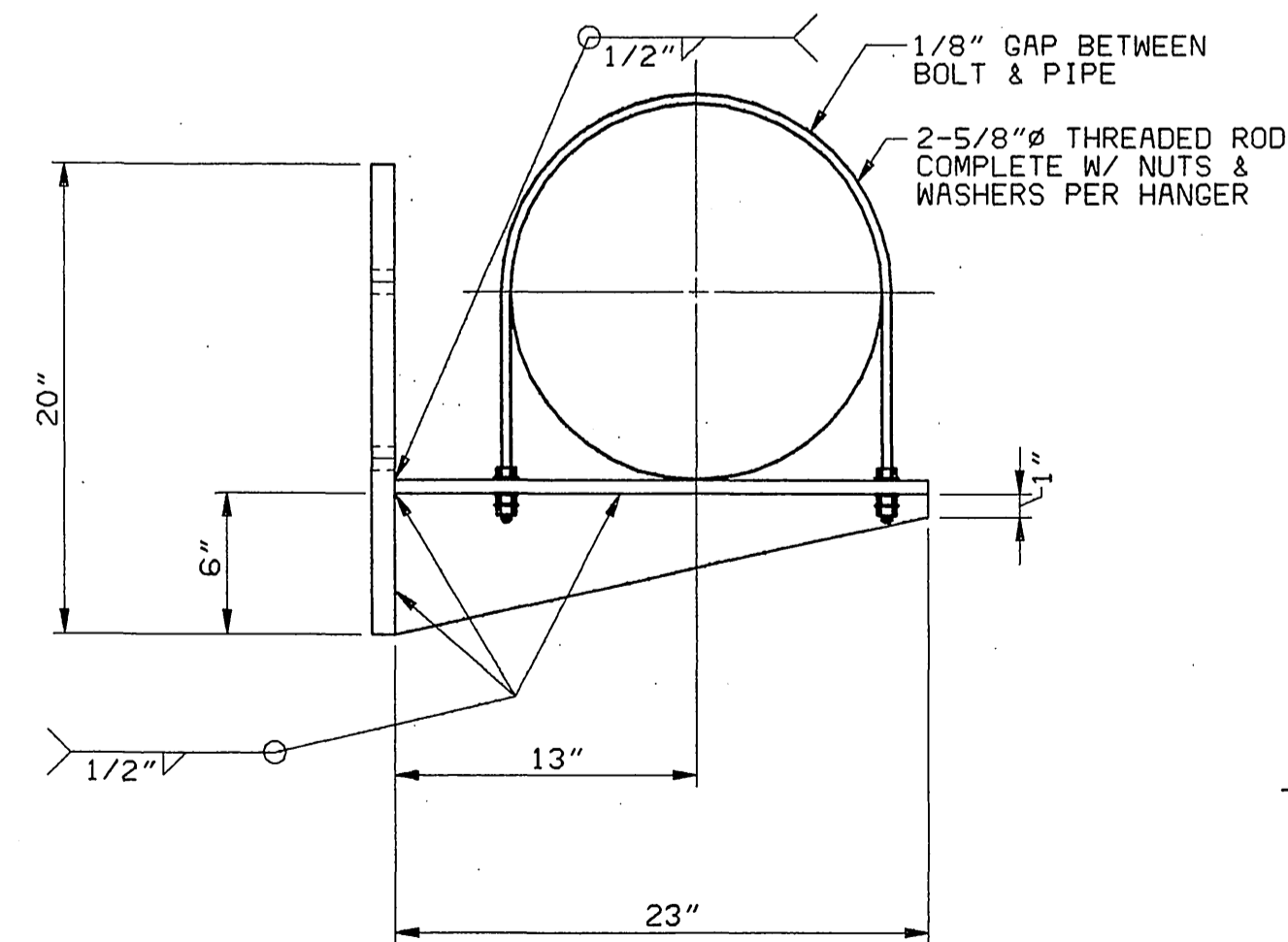
DIP MECHANICAL JOINTS WITH TIE RODS (C)
NO SCALE



DETAIL D (C-30)
NO SCALE



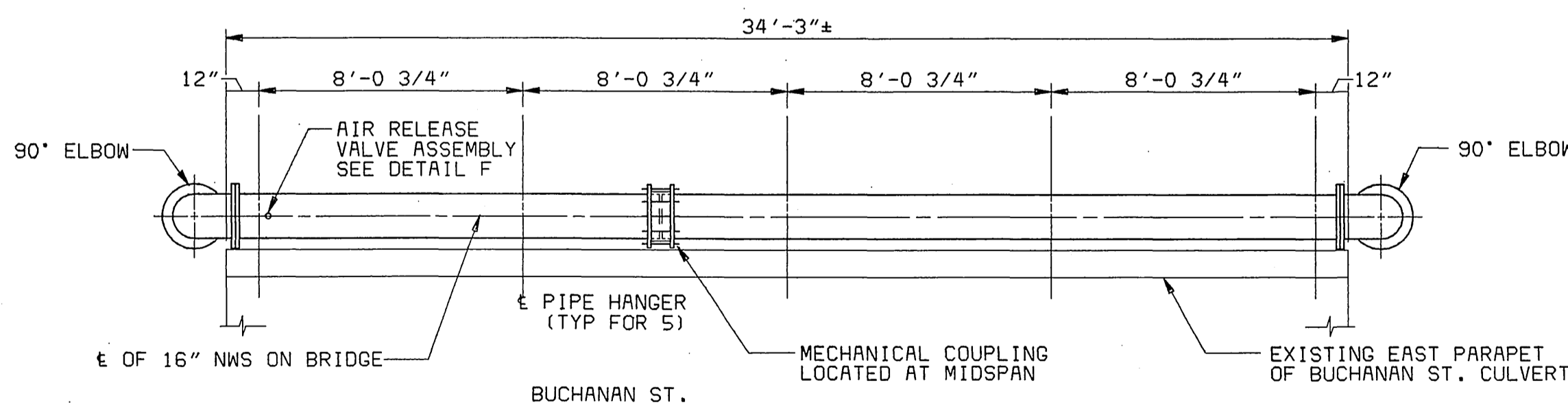
AIR RELEASE AT LA SIERRA CHANNEL DETAIL (F)
NO SCALE



LA SIERRA CHANNEL CROSSING PIPE HANGER DETAIL (E)
NO SCALE

NOTES:

1. ALL PIPE HANGERS SHALL BE FABRICATED FROM 5/8" STEEL PL (HOT DIP GALVANIZED).
2. PIPE HANGERS SHALL BE MOUNTED ON SIDE OF CULVERT STRUCTURE PER DETAIL D.
3. SPACING BETWEEN HANGERS SHALL BE AS SHOWN IN DETAIL H.



NOTE:

ABOVE GRADE PIPE AT LA SIERRA CHANNEL SHALL BE FLANGED JOINT DUCTILE IRON PIPE.

PIPE HANGER LAYOUT DETAIL (H)
1/4"=1'-0"

(SQUARE FEET)

SIZE (D)	BEND (Δ)			
	90°	45°	22 1/2°	11 1/4°
16"	21	11	4	2
18"	27	14	7	3
36"	*	*	*	*

* THRUST BLOCK NOT PERMITTED, USE RESTRAINED JOINTS.

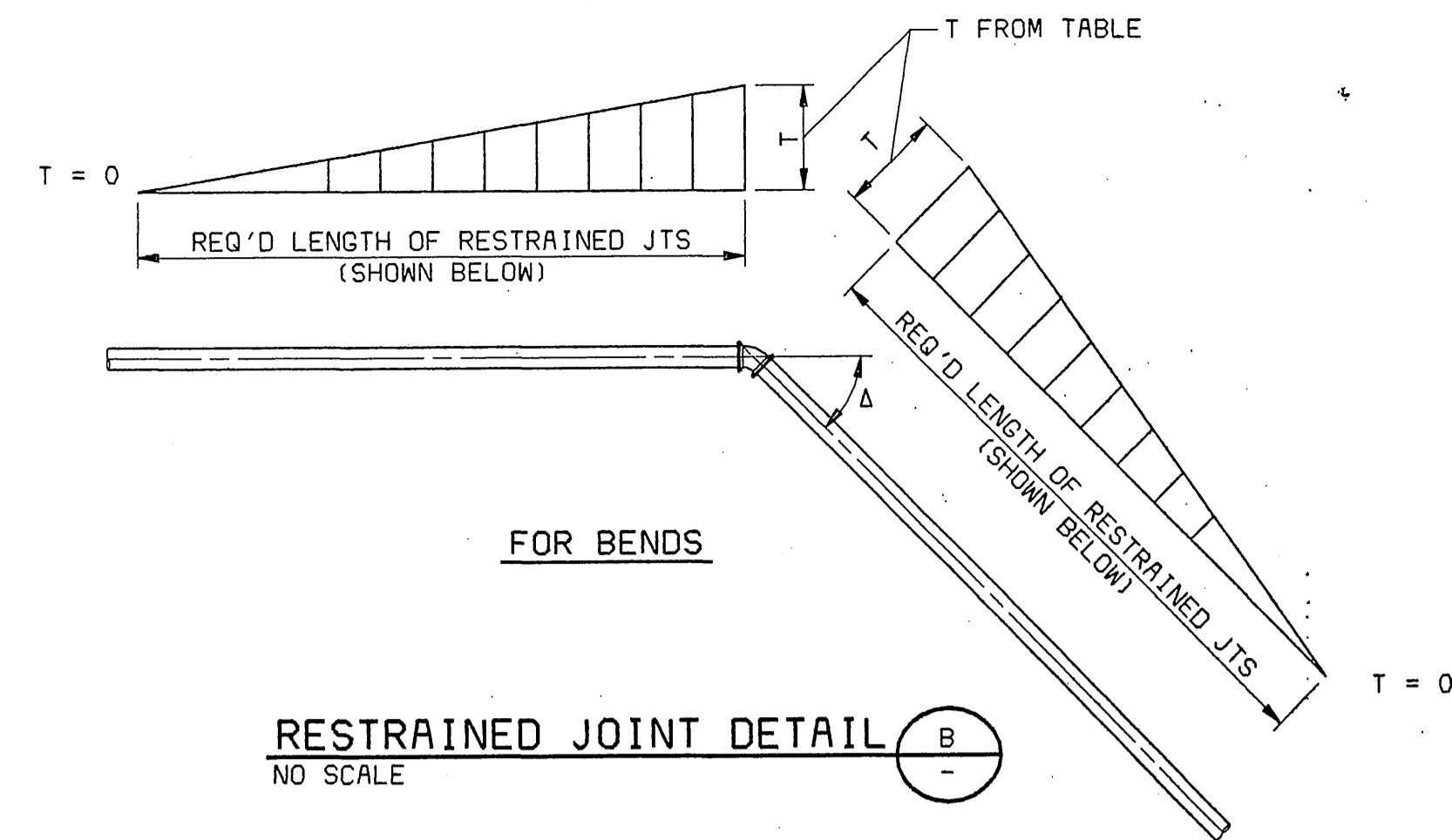
SINGLE BEND THRUST BLOCK AREAS

(SQUARE FEET)

SIZE (D)	BEND (Δ)		
	67 1/2°	56 1/4°	33 3/4°
16"	21	14	8
18"	27	18	10
36"	*	*	*

* THRUST BLOCK NOT PERMITTED, USE RESTRAINED JOINTS.

DOUBLE BEND THRUST BLOCK AREAS



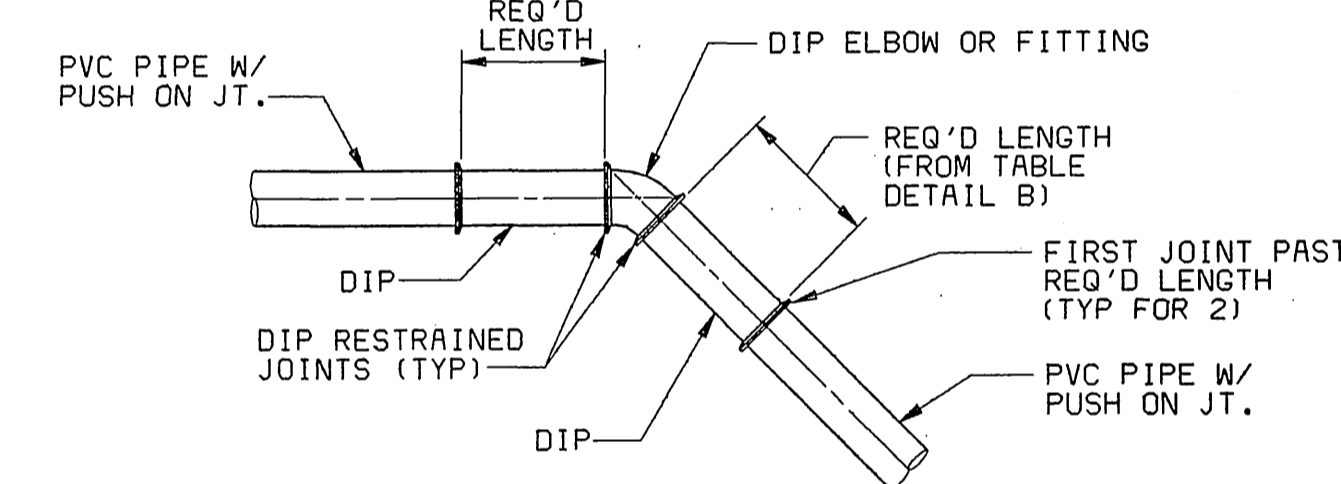
RESTRAINED JOINT DETAIL (B)
NO SCALE

T (KIPS)

PIPE SIZE	Δ=60°-90° REDUCERS	Δ=56 1/4° (45°+11 1/4°)	Δ=45°	Δ=33 3/4° (22 1/2°+11 1/4°)	Δ=22 1/2°	Δ=11 1/4°
	16"	10.3	6.9	5.6	4.2	2.8
18"	12.9	8.6	7.0	5.3	3.6	1.8
36"	49.4	32.9	26.7	20.2	13.6	6.8

REQUIRED LENGTH OF RESTRAINED JOINT PIPE (FT) ON EACH SIDE OF BEND OR FITTING

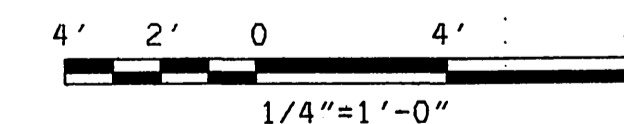
PIPE SIZE	Δ=60°-90°	Δ=56 1/4° (45°+11 1/4°)	Δ=45°	Δ=33 3/4° (22 1/2°+11 1/4°)	Δ=22 1/2°	Δ=11 1/4°
	16"	9	5	4	3	2
18"	10	6	5	4	2	1
36"	18	10	8	6	4	2



PVC PIPE RESTRAINED JOINT DETAIL (I)
NO SCALE

NOTES:

1. THE LONGITUDINAL FORCE RESISTED BY RESTRAINED JOINTS IS ASSUMED TO VARY DIRECTLY IN PROPORTION TO DISTANCE FROM THE FITTING, FROM MAXIMUM T AT THE FITTING, DETERMINED FROM ABOVE TABLES, TO ZERO AT THE OPPOSITE END OF THE REQUIRED LENGTH OF RESTRAINED JOINTS SHOWN ON THE DRAWINGS. RESTRAINED JOINTS AND PIPE SHALL BE DESIGNED TO WITHSTAND THE PROPORTIONAL LONGITUDINAL FORCE AT THE POINTS BETWEEN THE FITTING AND THE STATION AT WHICH T=0.
2. WHERE THE LONGITUDINAL FORCE DIAGRAMS FOR ADJACENT FITTINGS OVERLAP, THE LONGITUDINAL FORCE RESISTED BY RESTRAINED JOINTS SHALL BE ASSUMED TO VARY DIRECTLY IN PROPORTION TO THE DISTANCE BETWEEN EACH FITTING, WITH MAXIMUM T AT EACH FITTING DETERMINED FROM ABOVE TABLES, OR IN ACCORDANCE TO NOTE #1 ADJACENT, WHICHEVER IS GREATER. RESTRAINED JOINTS AND PIPE SHALL BE DESIGNED TO WITHSTAND THE PROPORTIONAL LONGITUDINAL FORCE AT ALL POINTS BETWEEN THE FITTINGS.
3. INSTALLATION OF RESTRAINED JOINTS IN PVC PIPE IS SHOWN IN DETAIL I ON C-39.



INDEXED 4-23-99 LA

WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM

NONRECLAIMABLE WASTEWATER SEWER
MISCELLANEOUS DETAILS

DESIGNED: JTG
DETAILED: CND
CHECKED: GMC
APPROVED: DJV
DATE: 6-22-96

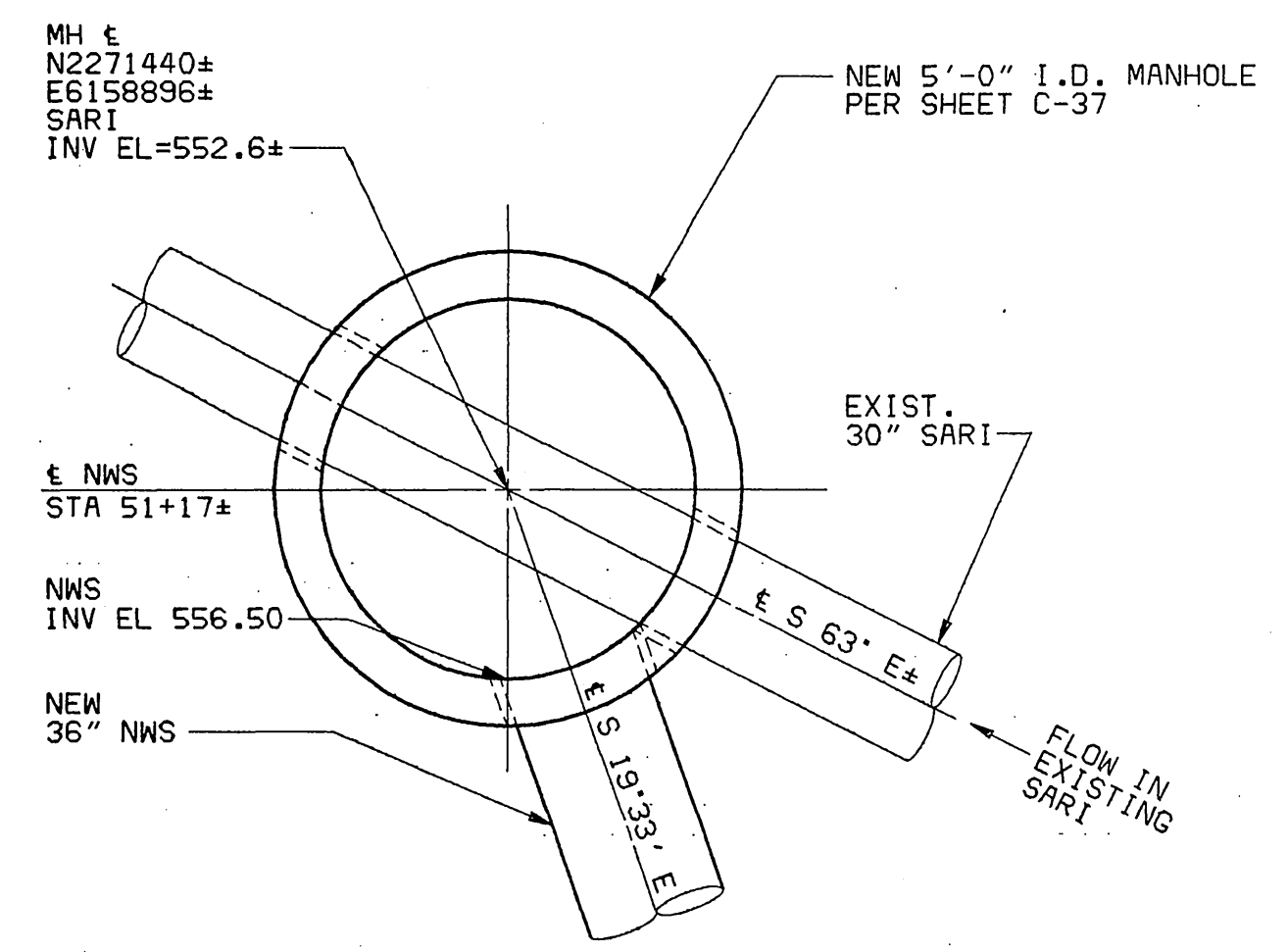
PROJECT NO. 23068
SCALE: AS NOTED

WESTERN PROFESSIONAL ENGINEER
DENTON VOS
No. 049833
EXP. 9-30-22
CIVIL
STATE OF CALIFORNIA

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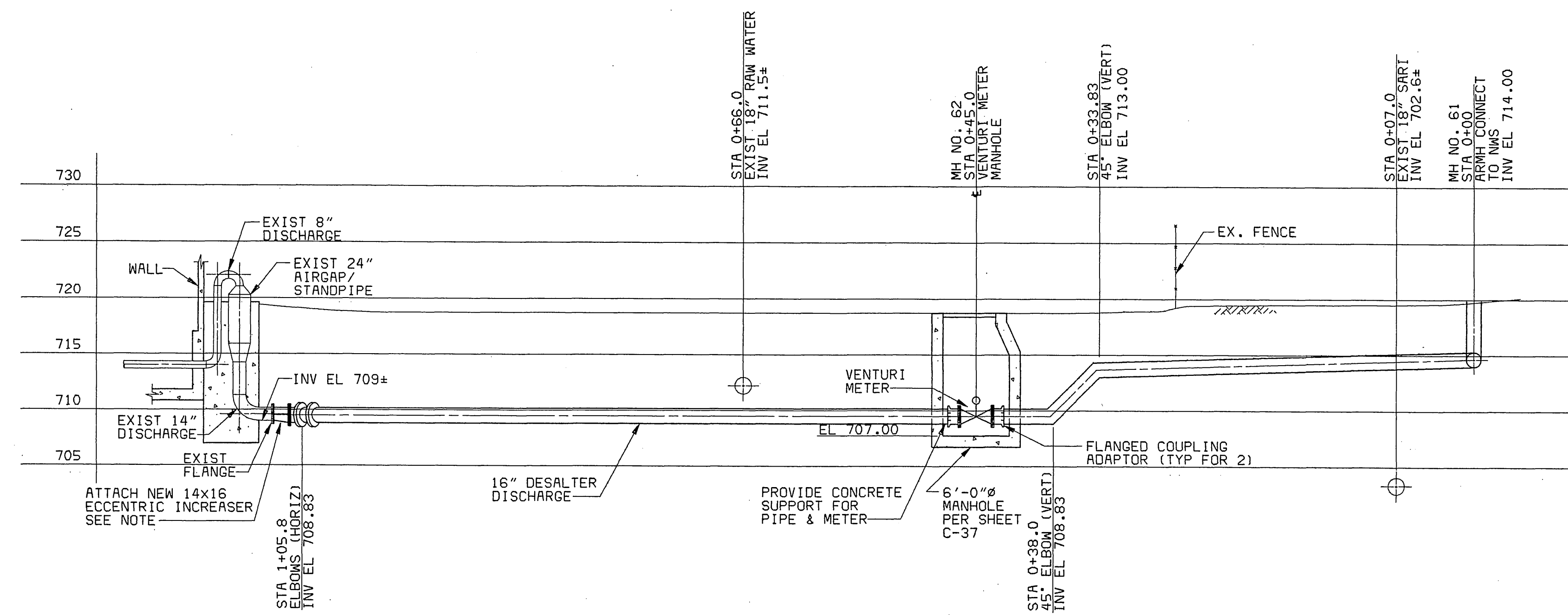
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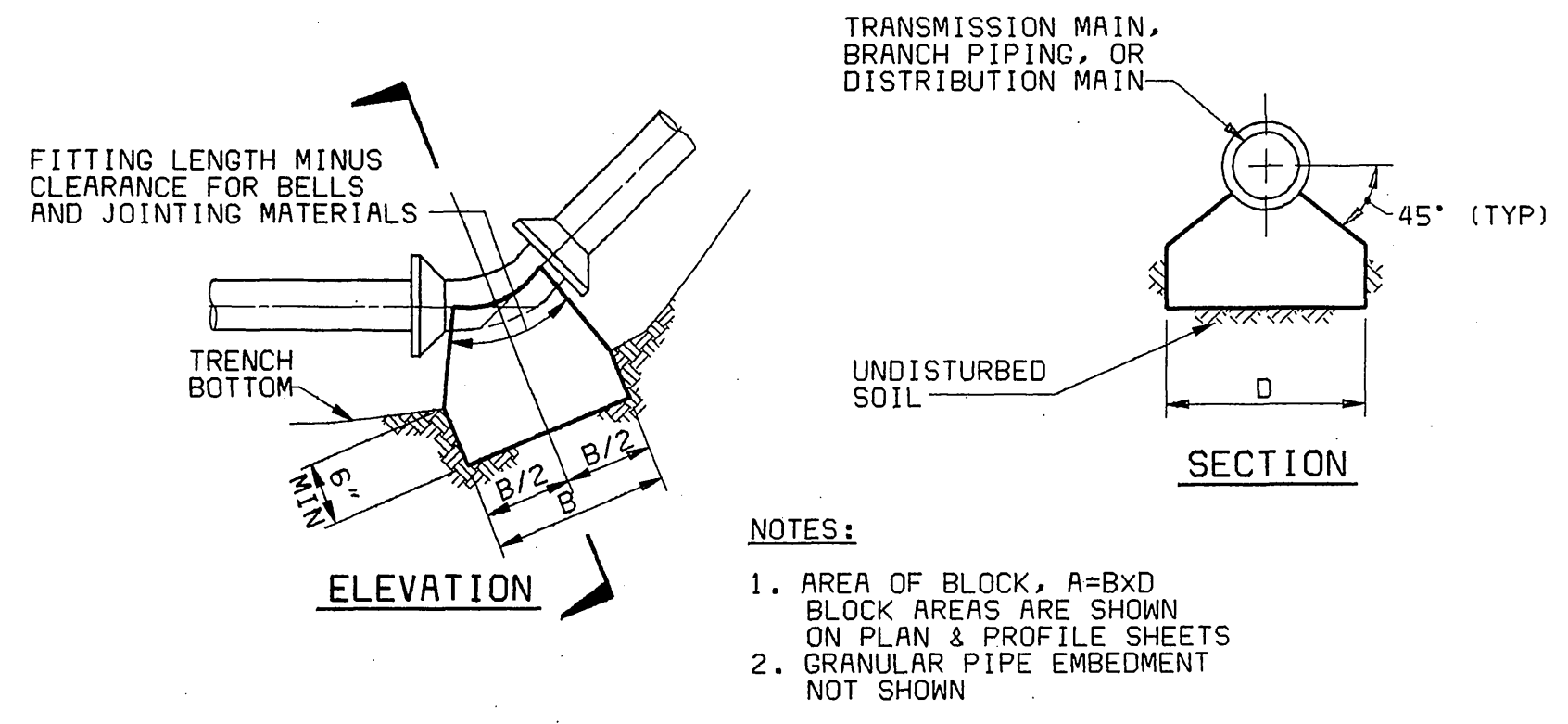
- NOTES:**
1. CONSTRUCT MANHOLE AROUND EXISTING SARI SEWER LINE.
 2. BREAK SARI PIPE WITHIN COMPLETED MANHOLE TO COMPLETE CONNECTION.
 3. EXISTING SARI IS EXTRA STRENGTH VITRIFIED CLAY PIPE.

NWS/SARI CONNECTION DETAIL (A)
NO SCALE (C-1)

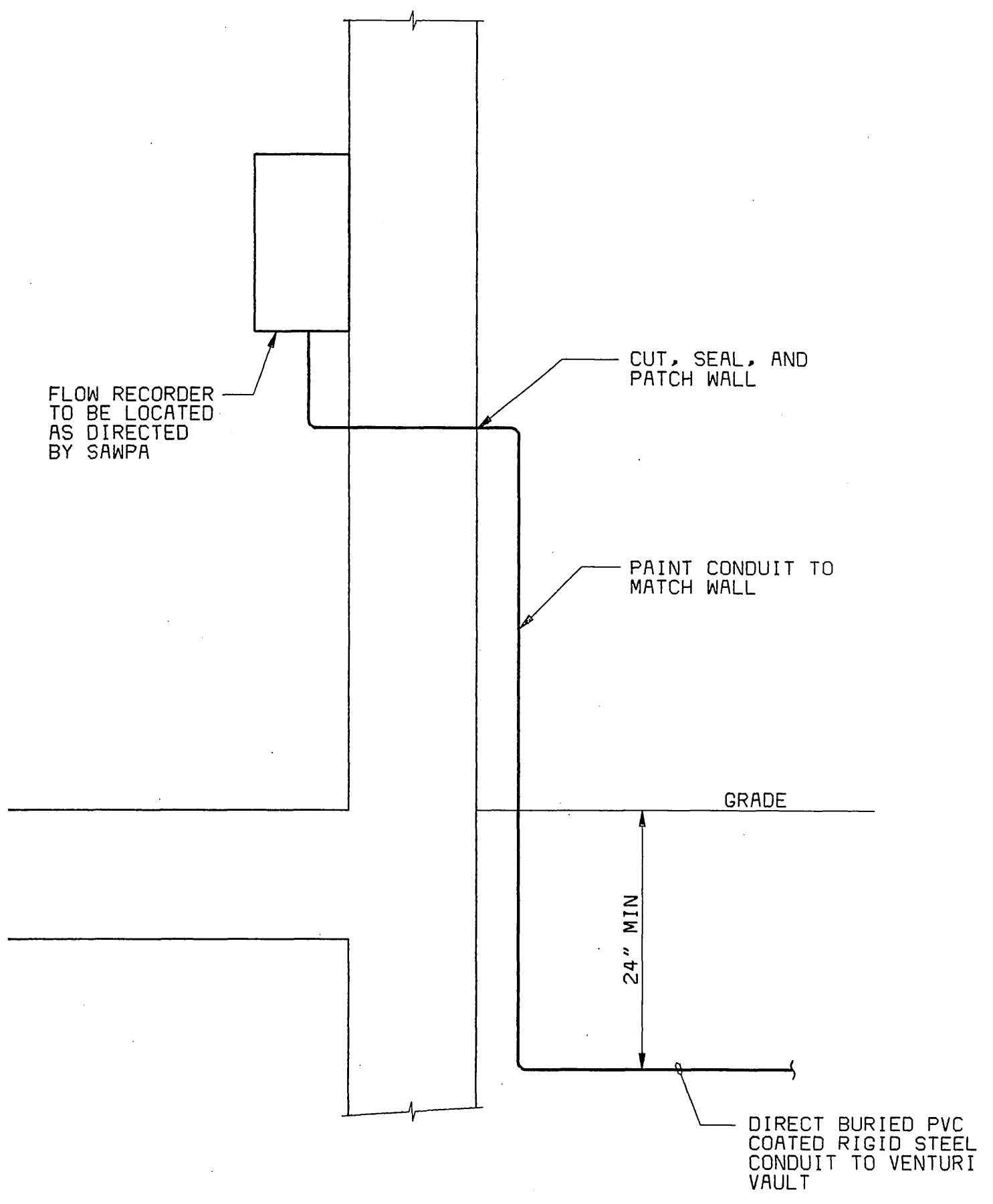


NOTE:
COORDINATE CONNECTION WITH SAWPA.

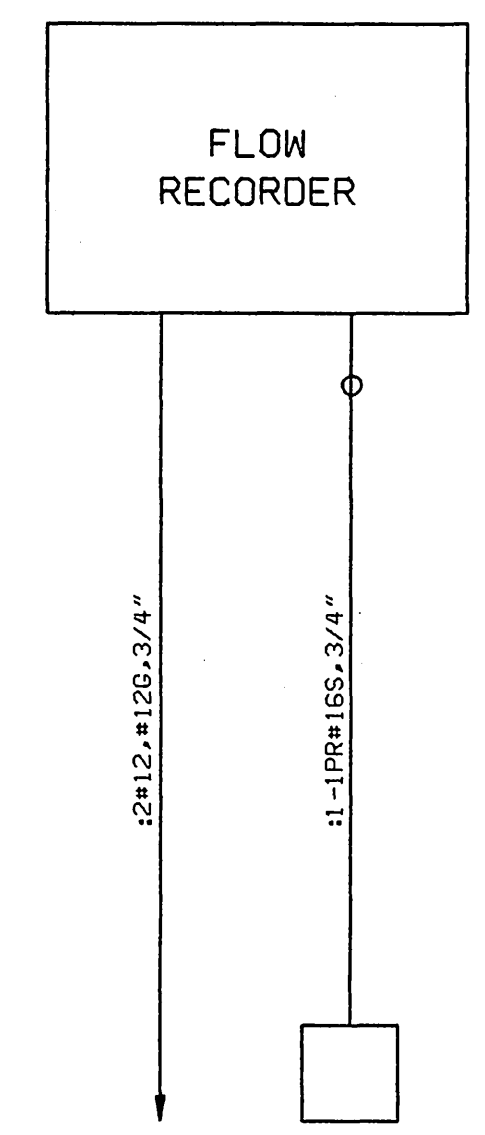
NEW 16" DESALTER DISCHARGE PROFILE (B)
1/8"=1'-0" (C-36)



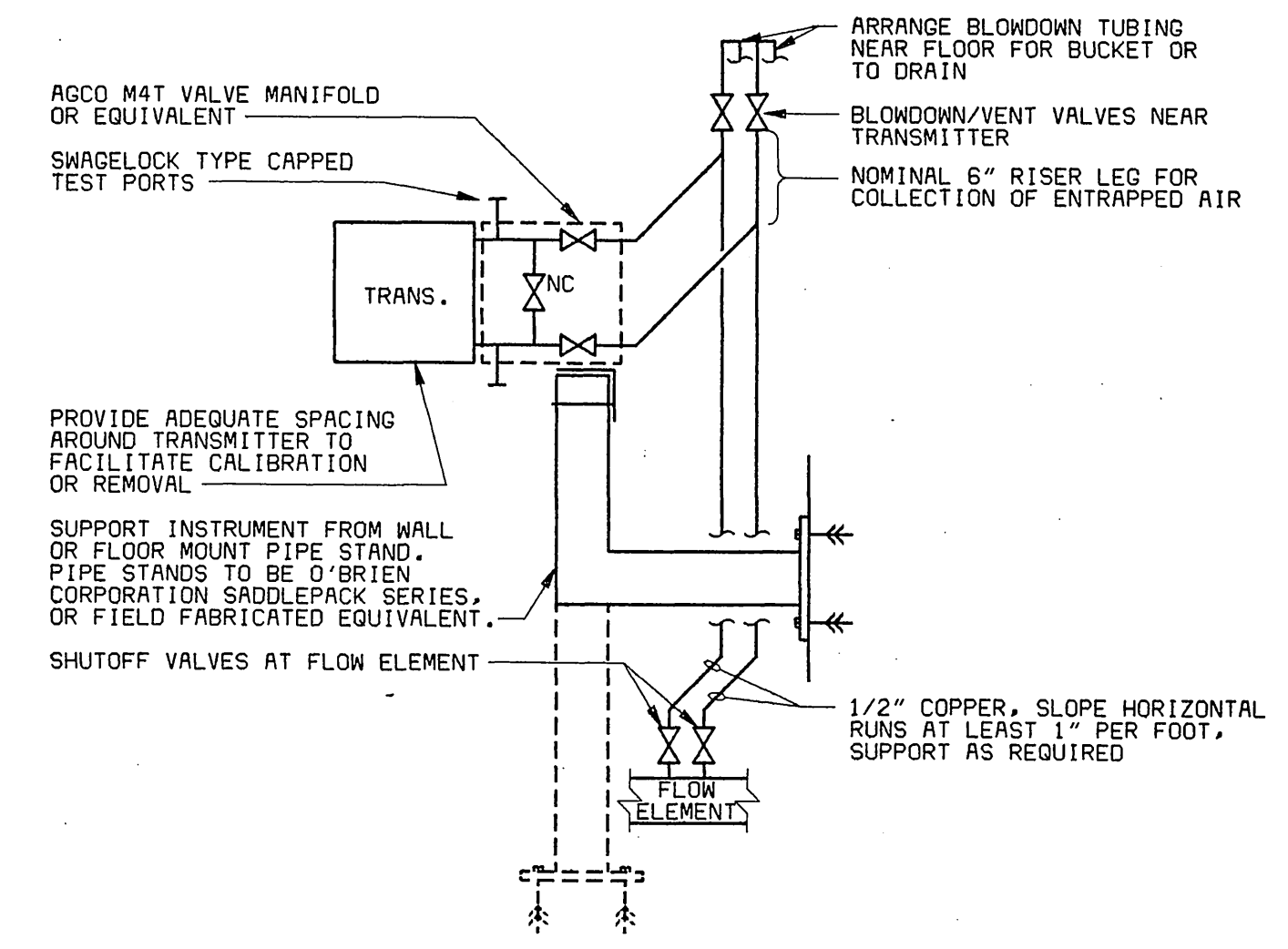
VERTICAL CONCRETE THRUST BLOCKING (C)
NO SCALE



CONDUIT DETAIL (D)
NO SCALE (C-36)



FLOW METERING ONE LINE (E)
NO SCALE



TYPICAL DIFFERENTIAL TYPE FLOW TRANSMITTER INSTALLATION DETAIL (F)
NO SCALE (FOR LIQUID SERVICE WITH TRANSMITTER MOUNTED ABOVE FLOW TUBE)
TYPICAL FOR: VENTURI METER

8' 4' 0' 8' 16'
1/8"=1'-0"

CB01040_VPL
FC062306B_XXX_ATB_VPL

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED: JTG
DETAILED: CND
CHECKED: GMC
APPROVED: DJV
DATE: 6-26-96



PROJECT NO.
23068
SCALE=
AS NOTED

WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM

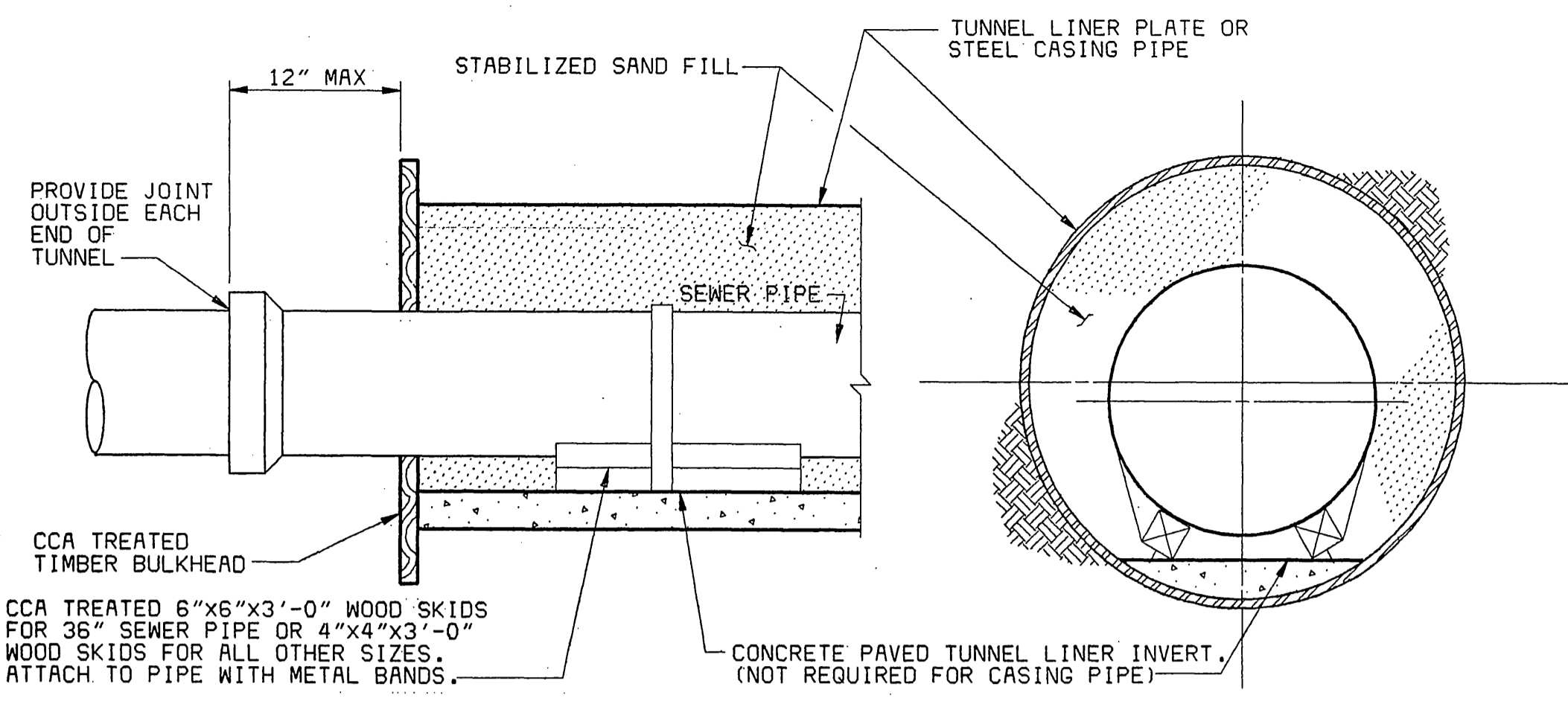
NONRECLAIMABLE WASTEWATER SEWER
MISCELLANEOUS DETAILS

REGISTERED PROFESSIONAL ENGINEER
DENTON VOSS
No. C49833
EXP. 9-30-22
CIVIL
STATE OF CALIFORNIA

C-40
5-1711
SHEET
45 OF

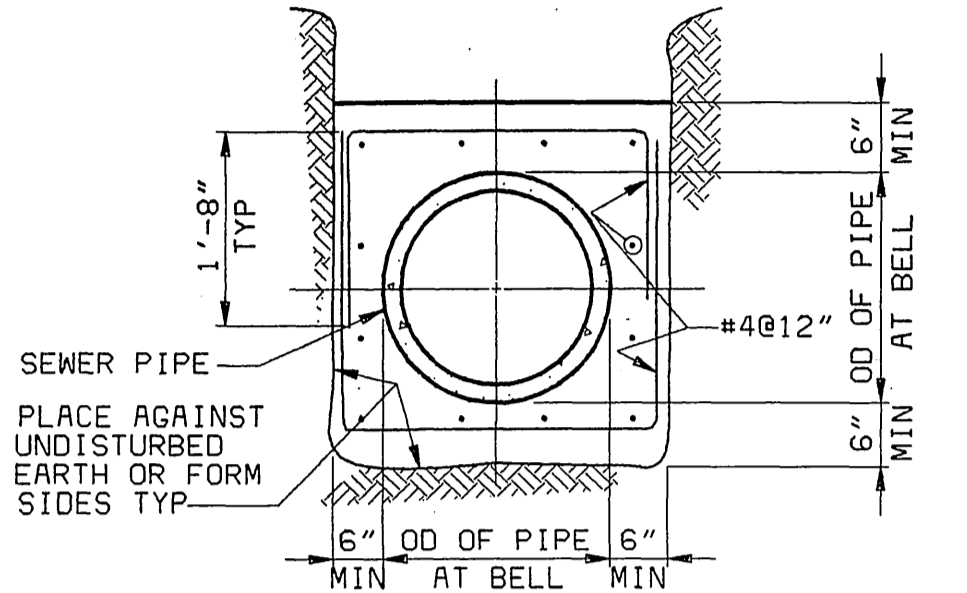
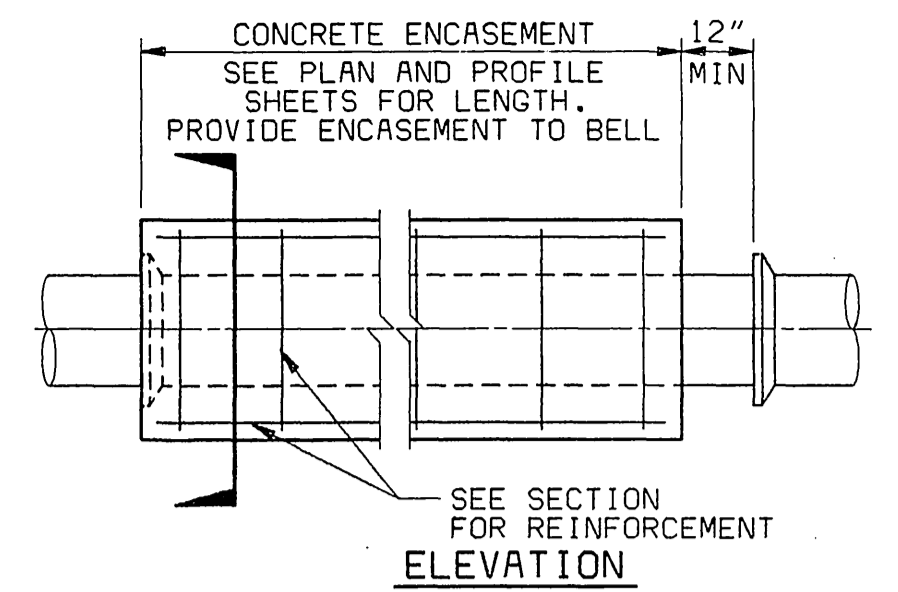
INDEXED 4-23-99 L41

10/21/96 16:08:48 VPL
10/21/96 14:52:41 ATSI



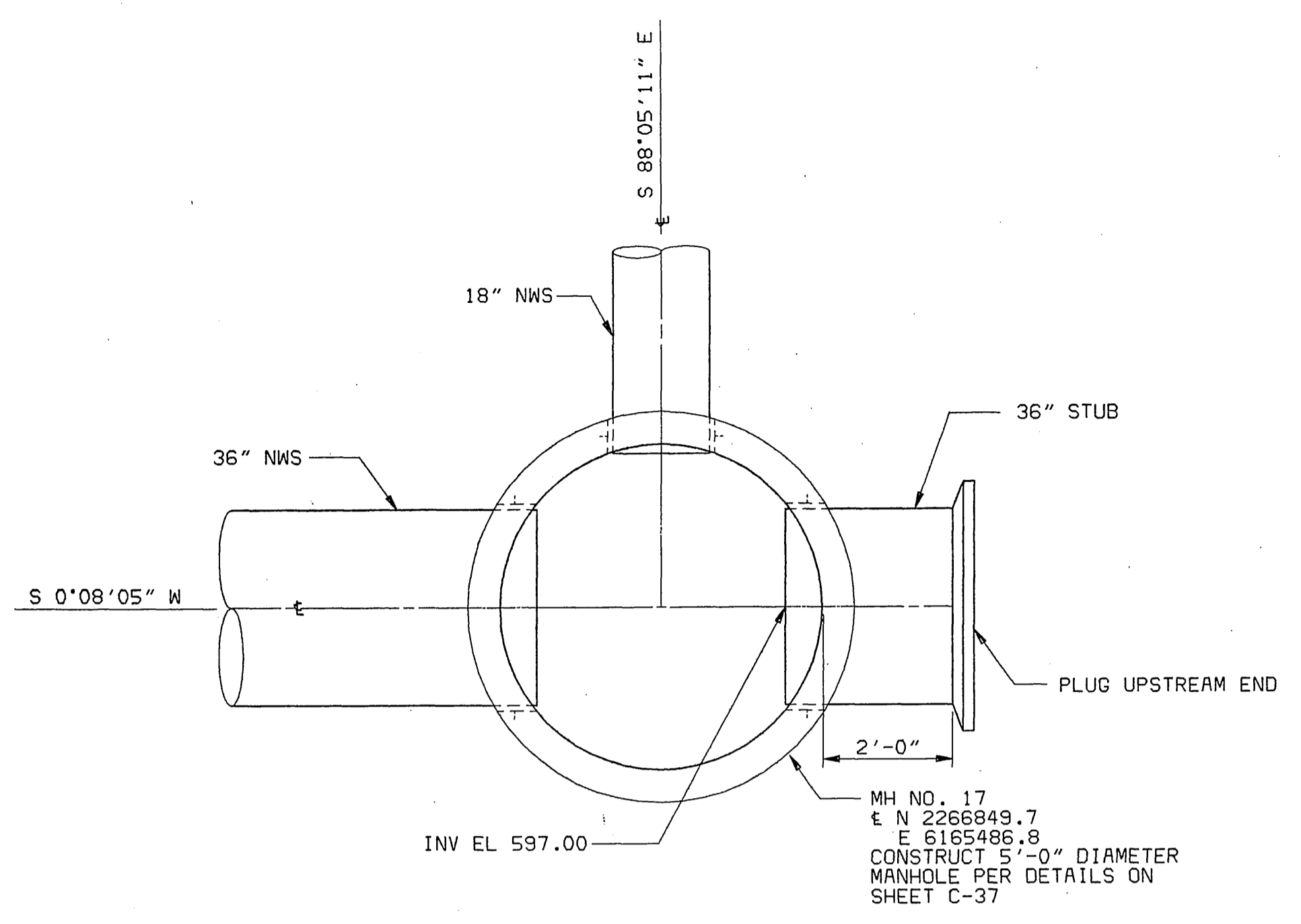
NOTE:
FOR SIZE AND LENGTH OF TUNNEL OR CASING PIPE
REQUIRED, SEE PLAN AND PROFILE SHEETS

SECTION ELEVATION CROSS SECTION



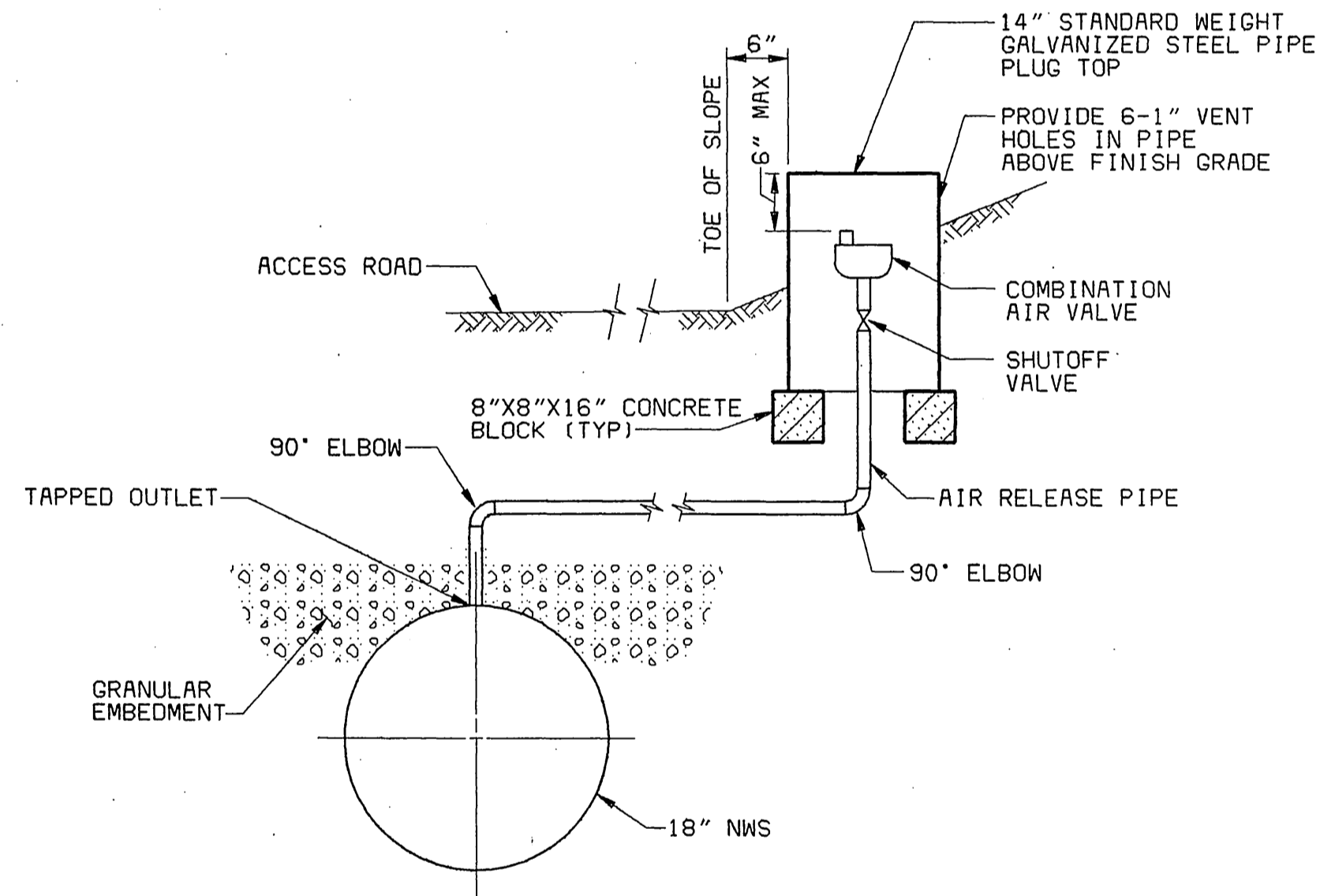
FOR 14" THRU 27" PIPE
NOTE:
MINIMUM DIMENSIONS SHOWN ARE
MAXIMUM PAY LIMITS.

CONCRETE ENCASEMENT DETAILS (B)
NO SCALE

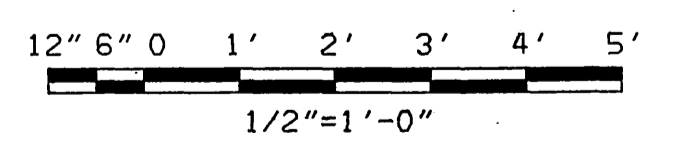


MH NO. 17
E N 2266849.7
E 6185486.8
CONSTRUCT 5'-0" DIAMETER
MANHOLE PER DETAILS ON
SHEET C-37

MANHOLE NO. 17 DETAIL (C)
1/2"=1'-0" (C-10)



AIR RELEASE ASSEMBLY AT STA 103+33 (D)
NO SCALE (C-12)



INDEXED 4-23-99

CBG1040_VPL
FCB23068.XXX_RTB_VPL

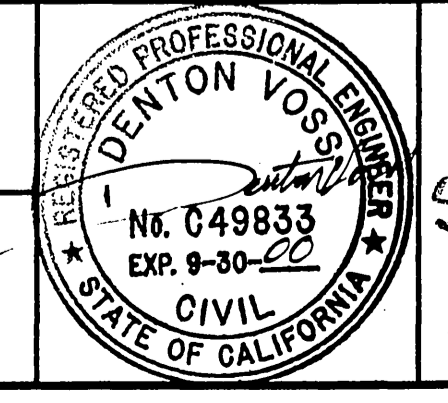
DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

DESIGNED DZ
DETAILED BT
CHECKED GMC
APPROVED DJV
DATE 6-26-96

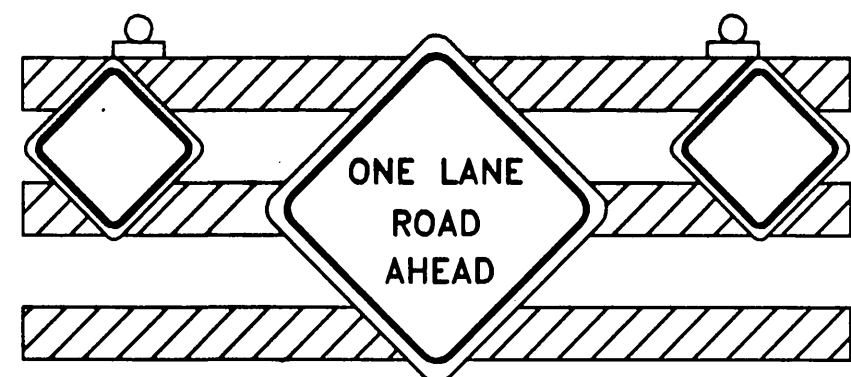


PROJECT NO.
23068
SCALE=
NO SCALE

WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM
NONRECLAIMABLE WASTEWATER SEWER
MISCELLANEOUS DETAILS



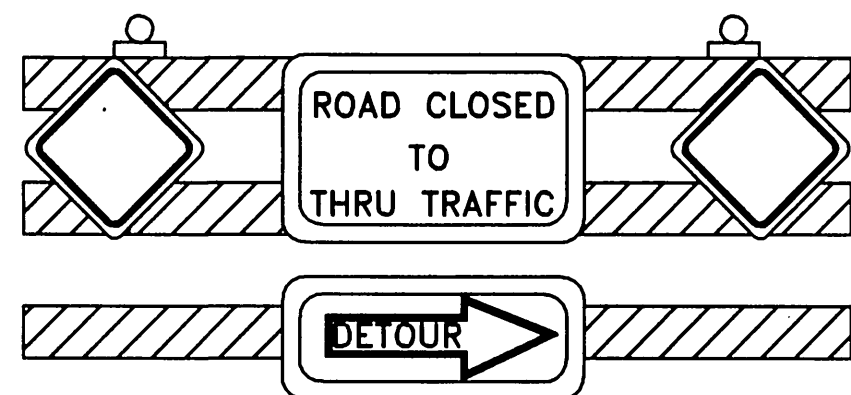
C-41
S-1711
SHEET
46 OF



INFORMATIONAL BARRICADE

TYPE III BARRICADE
W/C-16
2N-3 MARKERS
2 LIGHTS

THIS SIGN SHALL BE USED ON ALL LIMITED ACCESS LOCATIONS IN CONJUNCTION WITH FLAGGER USE.



INFORMATIONAL BARRICADE

TYPE III BARRICADE-10'
W/C-3A
C-5RT OR C-5LT (PER PLAN)
2N-3 MARKERS
3 LIGHTS

CALTRANS STANDARD

PLAN LIST

- A20A
- A20B
- A20C
- A20D
- A24A
- RS1
- RS2
- RS3
- T1
- T11
- T12

LEGEND

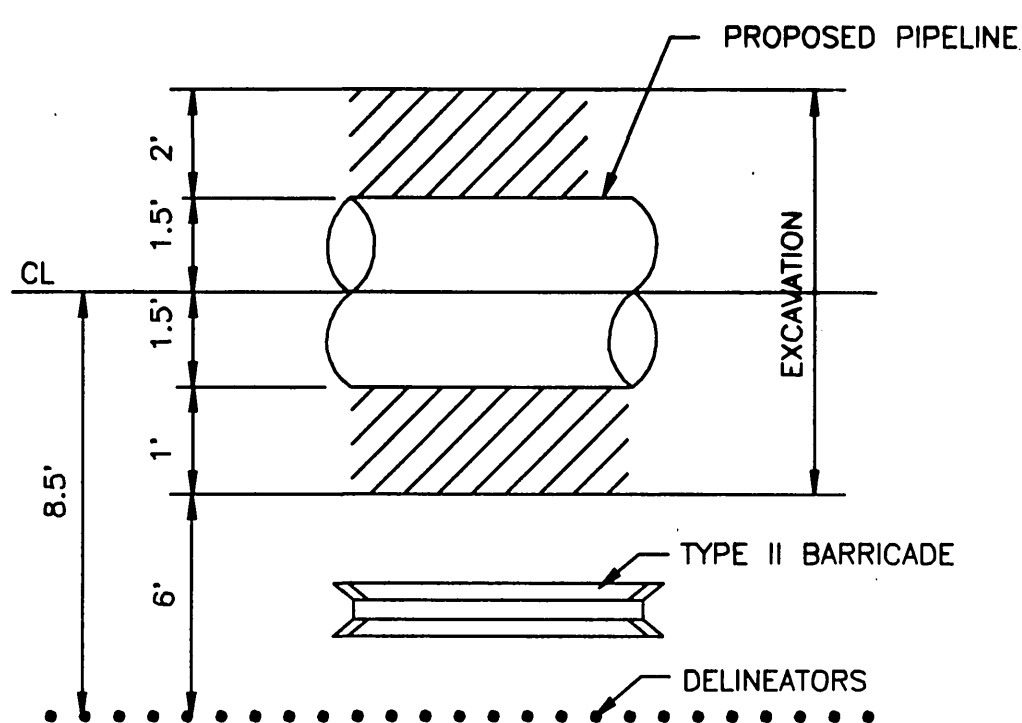
- 36 INCH PORTABLE TRAFFIC DELINEATOR
- I TYPE II BARRICADE
- F TYPE III BARRICADE
- o SIGN ON TEMPORARY POST
- FLAGMAN
- ▭ ARROW BOARD
- EDGE OF PAVEMENT
- RIGHT-OF-WAY
- ===== CURB AND GUTTER

SIGN LEGEND

- C1 DETOUR
- C2 ROAD CLOSED
- C5 DETOUR (LEFT) OR (RIGHT)
- C7 END DETOUR
- C9A FLAGGER SYMBOL
- C13 END CONSTRUCTION
- C16 ONE LANE ROAD AHEAD
- C17 SPEED LIMIT
- C18 ROAD CONSTRUCTION AHEAD
- C19 ROAD CLOSED AHEAD
- C20 RT. CENTER, OR LT. LANE CLOSED
- C21 SINGLE LANE AHEAD
- C24 SHOULDER WORK AHEAD
- C30 LANE CLOSED
- C36 PREPARE TO STOP
- W2 REVERSE TURN
- W6 ADVISORY SPEED PLATE
- W56 DOUBLE HEAD ARROW
- W57 SINGLE HEAD ARROW
- W74 THRU TRAFFIC MERGE LEFT OR RIGHT ONE WAY
- R10A NO RIGHT TURN
- R16 NO LEFT TURN
- R17 RIGHT LANE MUST TURN RT.
- R41 RIGHT TURN ONLY

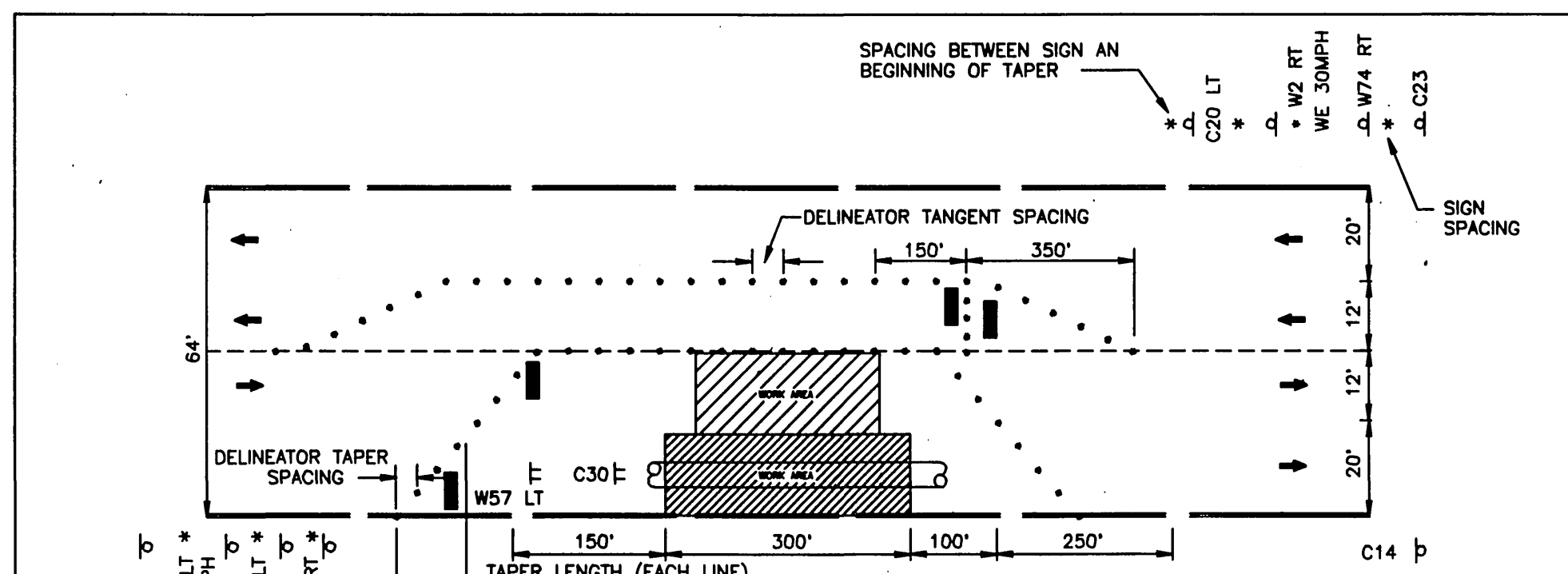
GENERAL NOTES

1. TRAFFIC SIGNS, MARKINGS, TRAFFIC SIGNALS AND HIGHWAY LIGHTING SYSTEMS PER CALTRANS STANDARD PLANS, STANDARD SPECIFICATIONS AND TRAFFIC SIGN SPECIFICATIONS DATED JULY 1992. SIGNS AND BARRICADES MAY BE RELOCATED AND REUSED FOR SUCCESSIVE CONSTRUCTION PHASES. HOWEVER SIGNS AND BARRICADES SHALL NOT BE RELOCATED UNTIL THEY ARE NO LONGER NECESSARY FOR THE CONSTRUCTION PHASE WHERE THEY WERE ORIGINALLY REQUIRED.
2. THE CONTRACTOR SHALL MAINTAIN ON A 24-HOUR BASIS ALL SIGNS, DELINEATORS, BARRICADES, ETC. TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC. ALL TRAFFIC CONTROL DEVICES MUST BE IN PLACE AND IN PROPER WORKING ORDER BEFORE THE START OF WORK EACH DAY. IF IT IS FOUND THAT TRAFFIC CONTROL DEVICES ARE OUT OF PLACE OR INOPERATIVE, WORK WILL BE HALTED UNTIL THE NECESSARY CORRECTIONS ARE MADE.
3. THE CONTRACTOR SHALL COORDINATE THE TRAFFIC SIGNAL OPERATIONAL MODIFICATIONS WITH THE AGENCY HAVING JURISDICTION.
4. CONTRACTOR SHALL OBTAIN APPROVAL FOR EXACT EQUIPMENT LOCATION PRIOR TO FINAL PLACEMENT.
5. TRAFFIC CONTROL AT INTERSECTIONS SHALL BE ADJUSTED TO ALLOW TRAFFIC ACCESS TO THE INTERSECTION IMMEDIATELY AFTER CONSTRUCTION IS COMPLETE ENOUGH TO ALLOW SAFE USE OF THE ROADWAY.
6. LANE OR ROAD CLOSURES SHALL BE LIMITED TO WEEKDAYS BETWEEN 8:30 A.M. AND 3:30 P.M., AND ONLY WHILE CONSTRUCTION IS IN PROGRESS.
7. ALL LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED WHEN LANES ARE OPEN.
8. ALL EXCAVATIONS SHALL BE COMPLETELY BACKFILLED AND TEMPORARILY PAVED AT THE END OF EACH WORKING DAY.
9. CONTRACTOR SHALL RESTORE ALL STRIPING AND MARKINGS TO THEIR ORIGINAL LOCATIONS AT THE COMPLETION OF ALL WORK.
10. ANY REVISION TO THESE DRAWINGS SHALL BE APPROVED IN WRITING BY THE ENGINEER OF RECORD AND THE AGENCY HAVING JURISDICTION.
11. SIGNING MAY BE MOUNTED ON WOODEN POSTS OR PORTABLE SUPPORTS UNLESS OTHERWISE INDICATED ON THE PLAN.
12. ALL STREET CROSSINGS SHALL BE CUT IN HALF-STREET SECTIONS TO FACILITATE TRAFFIC FLOW, UNLESS OTHERWISE INDICATED ON THESE PLANS.
13. CONTRACTOR SHALL REPLACE DAMAGED SIGNAL DETECTOR LOOPS PER AGENCY'S SPECIFICATIONS.
14. ALL TRAFFIC CONTROL MARKINGS SHALL BE TEMPORARY MARKINGS PER CALTRANS STANDARD SPECIFICATIONS AND/OR AS DIRECTED BY THE AGENCY'S TRAFFIC ENGINEER.
15. PARKING WITHIN THE AREAS OF IMPROVEMENT MAY BE RESTRICTED DURING CONSTRUCTION OPERATIONS. TEMPORARY "NO PARKING" SIGNS SHALL BE PROVIDED AND POSTED BY THE CONTRACTOR TWO (2) WORKING DAYS IN ADVANCE OF CONSTRUCTION. THE "NO PARKING" SIGNS SHALL CLEARLY STATE THE DATE AND HOURS DURING WHICH THE RESTRICTION IS EFFECTIVE. PERMISSION AND REQUIREMENTS SHALL BE OBTAINED FROM THE TRAFFIC ENGINEER OF THE AGENCY HAVING JURISDICTION FOR ANY "NO PARKING" SIGNS TO BE POSTED ON EXISTING TREES, UTILITY POLES, AND TRAFFIC SIGNS.
16. ALL ADJACENT BUSINESSES AND RESIDENCES SHALL BE DULY NOTIFIED BY THE CONTRACTOR, IN WRITING, OF HIS PROPOSED OPERATION. NOTICE SHALL BE DELIVERED AT LEAST TWO (2) WORKING DAYS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPRODUCTION OF THE LETTERS. RENOTIFICATION WILL BE REQUIRED IF THE CONTRACTOR'S SCHEDULE IS ALTERED, OR OTHER DELAYS OCCUR WHICH AFFECT THE PROJECT'S SCHEDULE.
17. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS FROM AGENCIES HAVING JURISDICTION FOR ANY TYPE OF STREET CLOSURE FULL OR PARTIAL. IF IN THE DETERMINATION OF THE TRAFFIC ENGINEER, A FULL CLOSURE IS REQUIRED, SUCH A PERMIT SHALL BE APPLIED FOR AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK. PERMITS FOR PARTIAL STREET CLOSURES SHALL BE APPLIED FOR AT LEAST TWO (2) WORKING DAYS PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL NOTIFY THE TRAFFIC ENGINEER TWO (2) WORKING DAYS PRIOR TO ANY CHANGE IN THE APPROVED CLOSURE. IN CASE OF FULL CLOSURE, THE CONTRACTOR SHALL PROVIDE BARRICADES AND REFLECTORIZED "ROAD CLOSED TO THROUGH TRAFFIC" SIGNS AT THE INTERSECTIONS IMMEDIATELY IN ADVANCE OF ALL SUCH CLOSURES AT ENTRANCES TO THE CLOSURE, AND ALL DETOUR ROUTE SIGNING. ACCESS TO LOCAL RESIDENCES AND BUSINESSES SHALL BE MAINTAINED AT ALL TIMES AS WELL AS ACCESS FOR EMERGENCY AND OTHER SERVICE VEHICLES. DETOUR SIGNS SHALL BE POSTED ON WOOD OR METAL POSTS. SIGNS SHALL NOT BE POSTED ON ANY TREE, UTILITY POLE, OR TRAFFIC SIGN.
18. AT LEAST ONE DRIVEWAY MUST REMAIN OPEN TO COMMERCIAL ESTABLISHMENTS AT ALL TIMES. ACCESS TO ALL DRIVEWAYS IN THE AREA OF CONSTRUCTION SHALL BE OPEN AND ACCESSIBLE DURING NONWORKING HOURS. THE CONTRACTOR SHALL KEEP OPEN ALL DRIVEWAYS EXCEPT FOR SHORT PERIODS OF TIME AS OUTLINED IN SPECIFICATION SECTION 7.03 "TRAFFIC CONTROL". ADEQUATE PROVISIONS FOR PEDESTRIAN ACCESS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT ALL LOCATIONS.
19. THE CONTRACTOR SHALL APPOINT A PERSON RESPONSIBLE TO DRIVE, OBSERVE, AND MAINTAIN THE JOB SITE AT LEAST ONCE A DAY DURING WEEKENDS AND HOLIDAYS TO ENSURE THAT THE SAFETY OF THE PUBLIC, BOTH MOTORING AND PEDESTRIAN, IS PRESERVED. THE NAME AND TELEPHONE NUMBER OF THE PERSON APPOINTED BY THE CONTRACTOR TO DRIVE AND MAINTAIN THE SITE DURING WEEKENDS AND HOLIDAYS SHALL BE SUPPLIED TO THE PROJECT ENGINEER AND CITIES OF CORONA AND RIVERSIDE PRIOR TO START OF ANY WORK.



TYPICAL WORK AREA CROSS SECTION

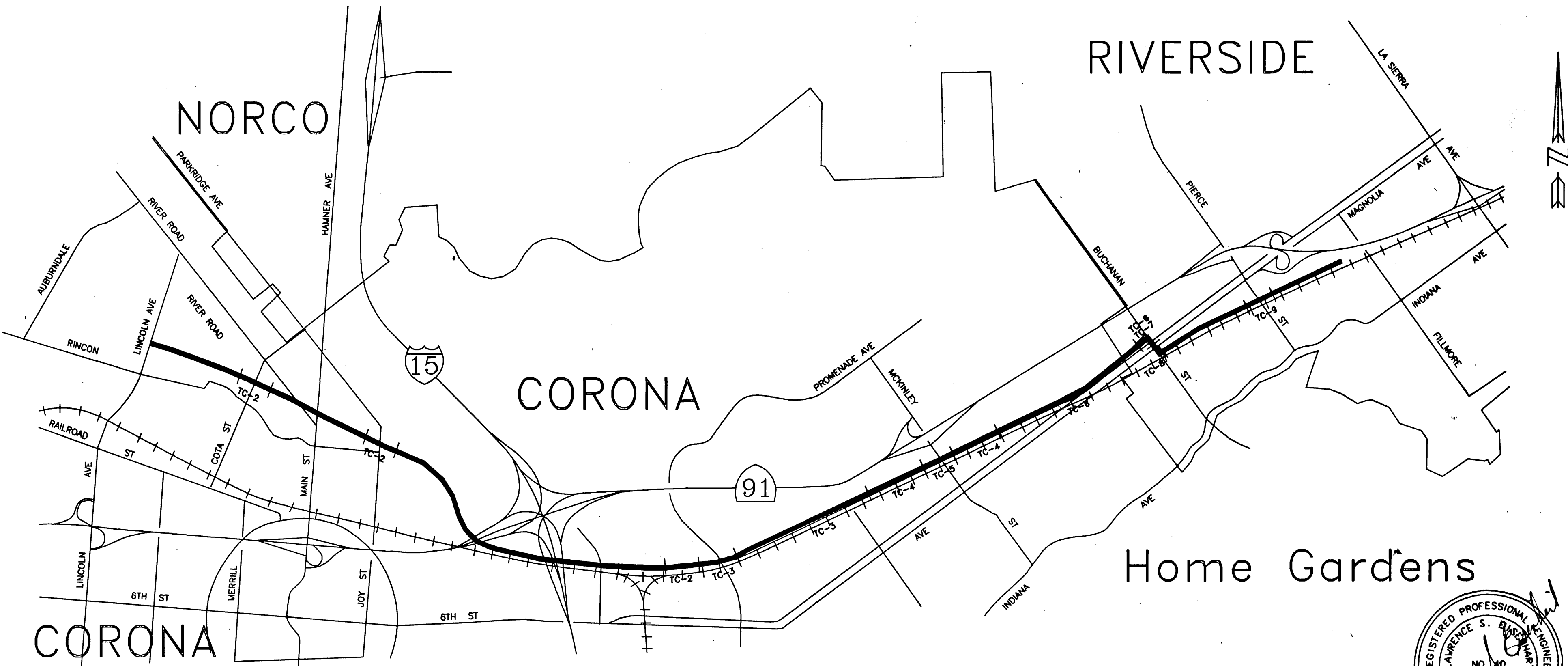
N.T.S.



**-CHART A-
MINIMUM RECOMMENDED DELINEATOR AND SIGN PLACEMENT**

TRAFFIC SPEED	TAPER LENGTH (EACH LANE)	DELIMITER (TAPER)	SPACING (TANGENT)	SIGN SPACING (ADVANCE OF TAPER & BETWEEN SIGNS)
25 MPH	150 FT.	25 FT.	50 FT.	150 FT.
30 MPH	200 FT.	30 FT.	60 FT.	200 FT.
35 MPH	250 FT.	35 FT.	70 FT.	250 FT.
40 MPH	350 FT.	40 FT.	80 FT.	350 FT.
45 MPH	550 FT.	45 FT.	90 FT.	550 FT.
50 MPH	600 FT.	50 FT.	100 FT.	600 FT.
55 MPH	700 FT.	50 FT.	100 FT.	700 FT.

MINIMUM RECOMMENDED DELINEATOR AND SIGN PLACEMENT



KEY PLAN

N.T.S.

APPROVED BY:
CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
[Signature]
FRANK DUNAJSKI
TRAFFIC ENGINEER

APPROVED BY:
CITY OF CORONA
PUBLIC WORKS DEPARTMENT
[Signature]
JOE WALECHA
CITY ENGINEER/TRAFFIC ENGINEER

ALBERT A WEBB ASSOCIATES
CONSULTANTS
3788 MCCRAY STREET
RIVERSIDE, CA
(909) 686-1070

DESIGNED: W.T.M.
DETAILED: R.L.P.
CHECKED: M.E.W.
APPROVED: L.S.E.
DATE: 6/96



PROJECT NO.
96-142
SCALE=
N.T.S.

**WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM**

**NONRECLAIMABLE WASTEWATER SEWER
TRAFFIC CONTROL PLANS**

REGISTERED PROFESSIONAL ENGINEER
LAWRENCE S. DUNSTON
NO. 40
EXP. 12-31-00
STATE OF CALIFORNIA

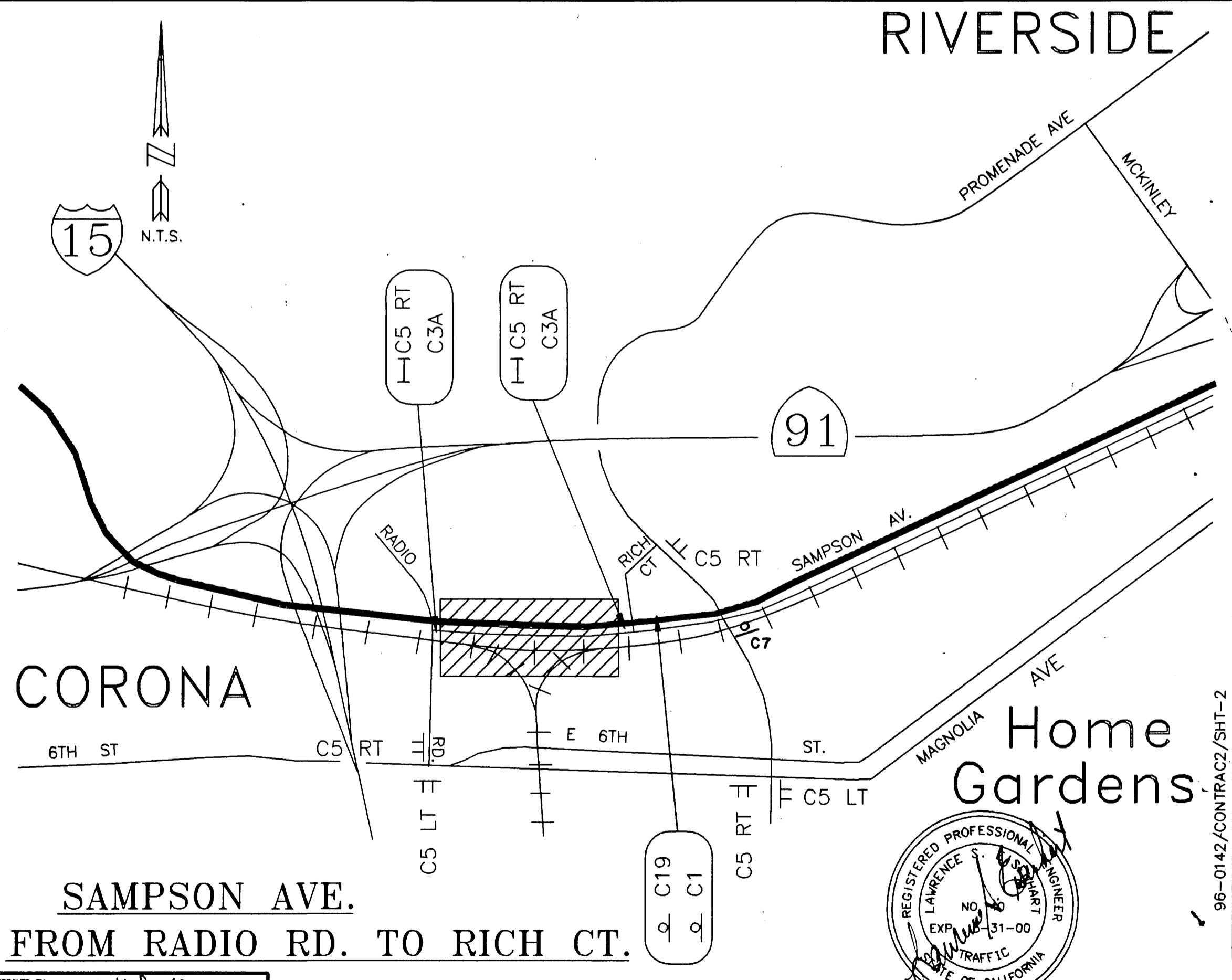
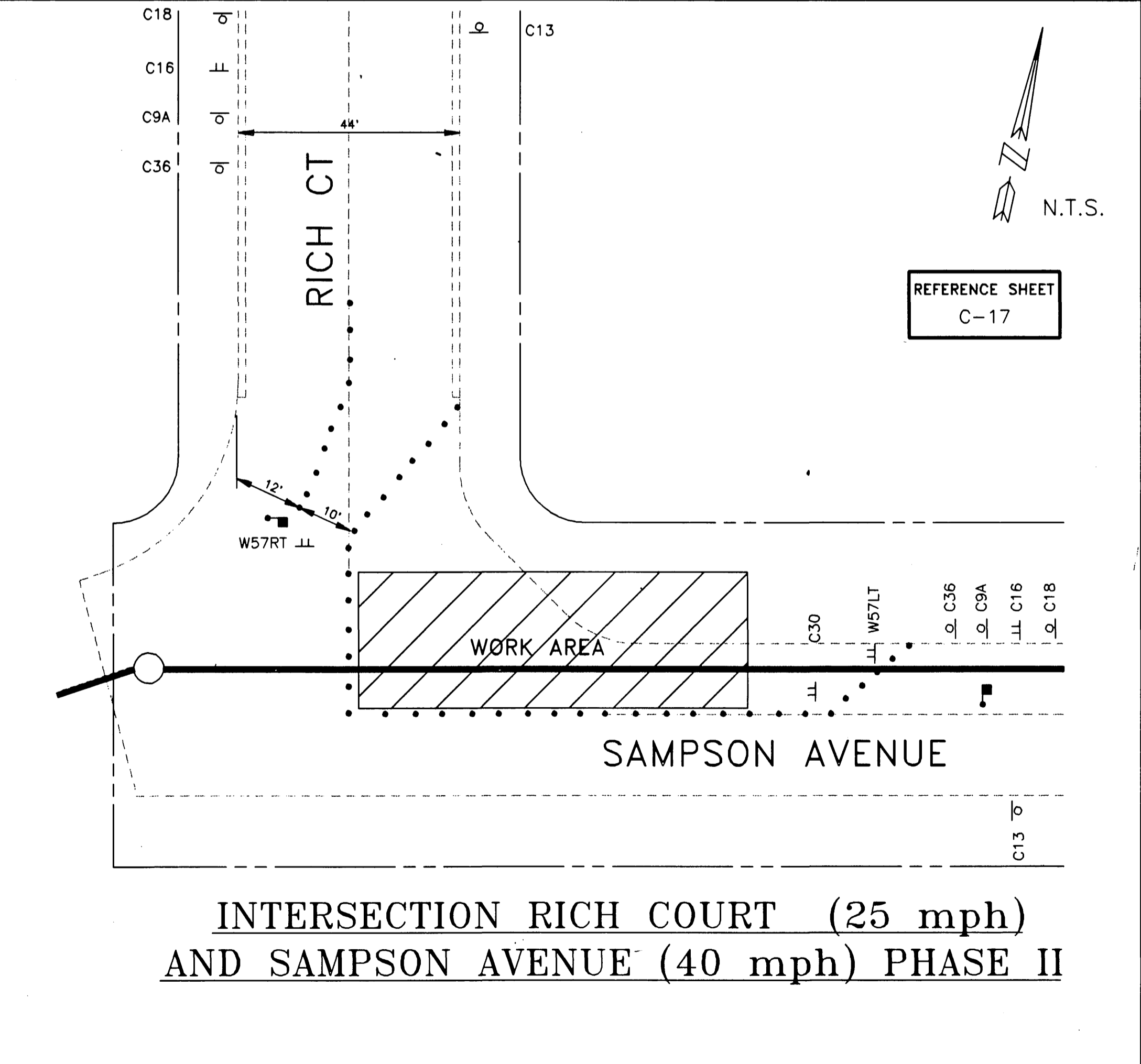
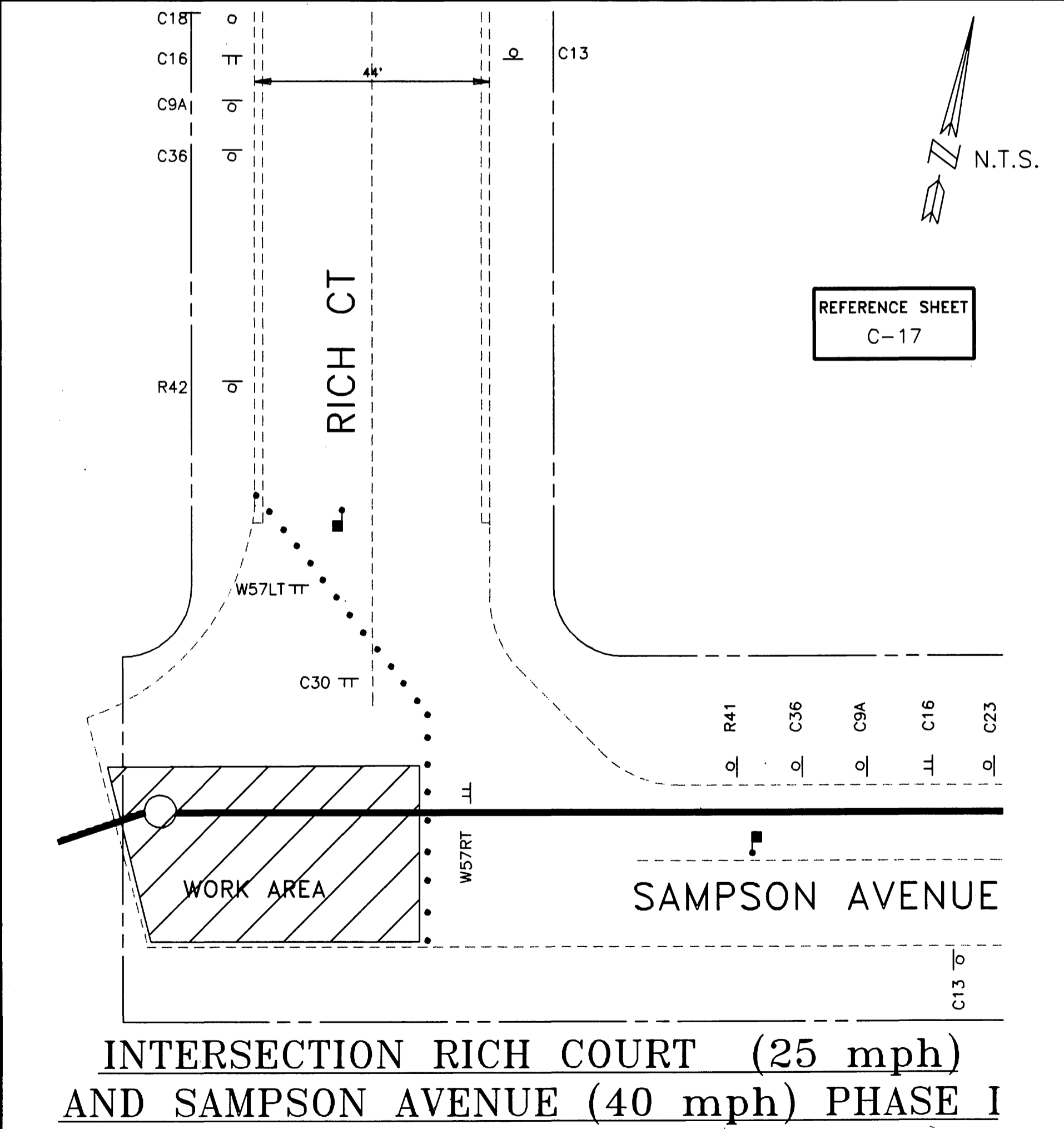
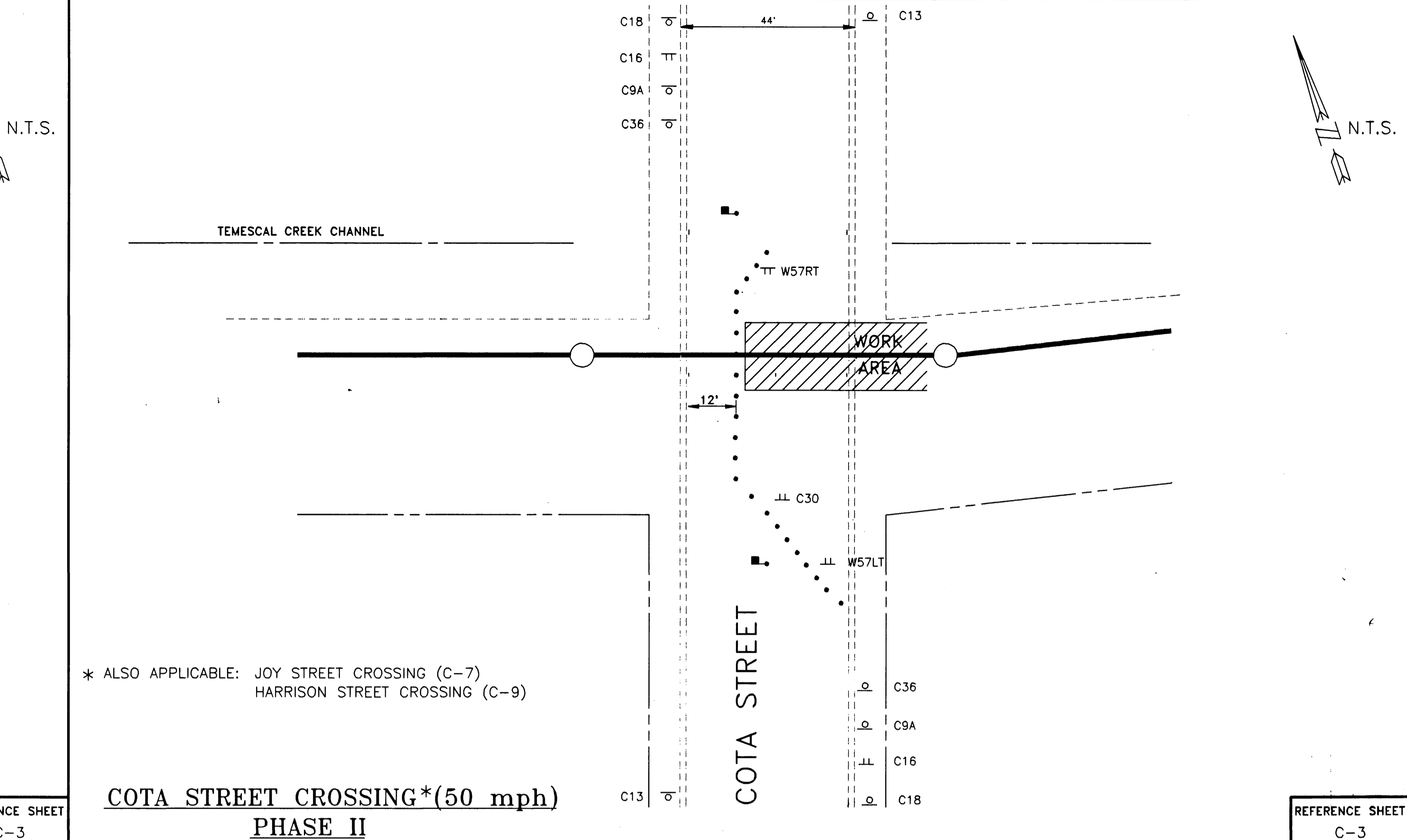
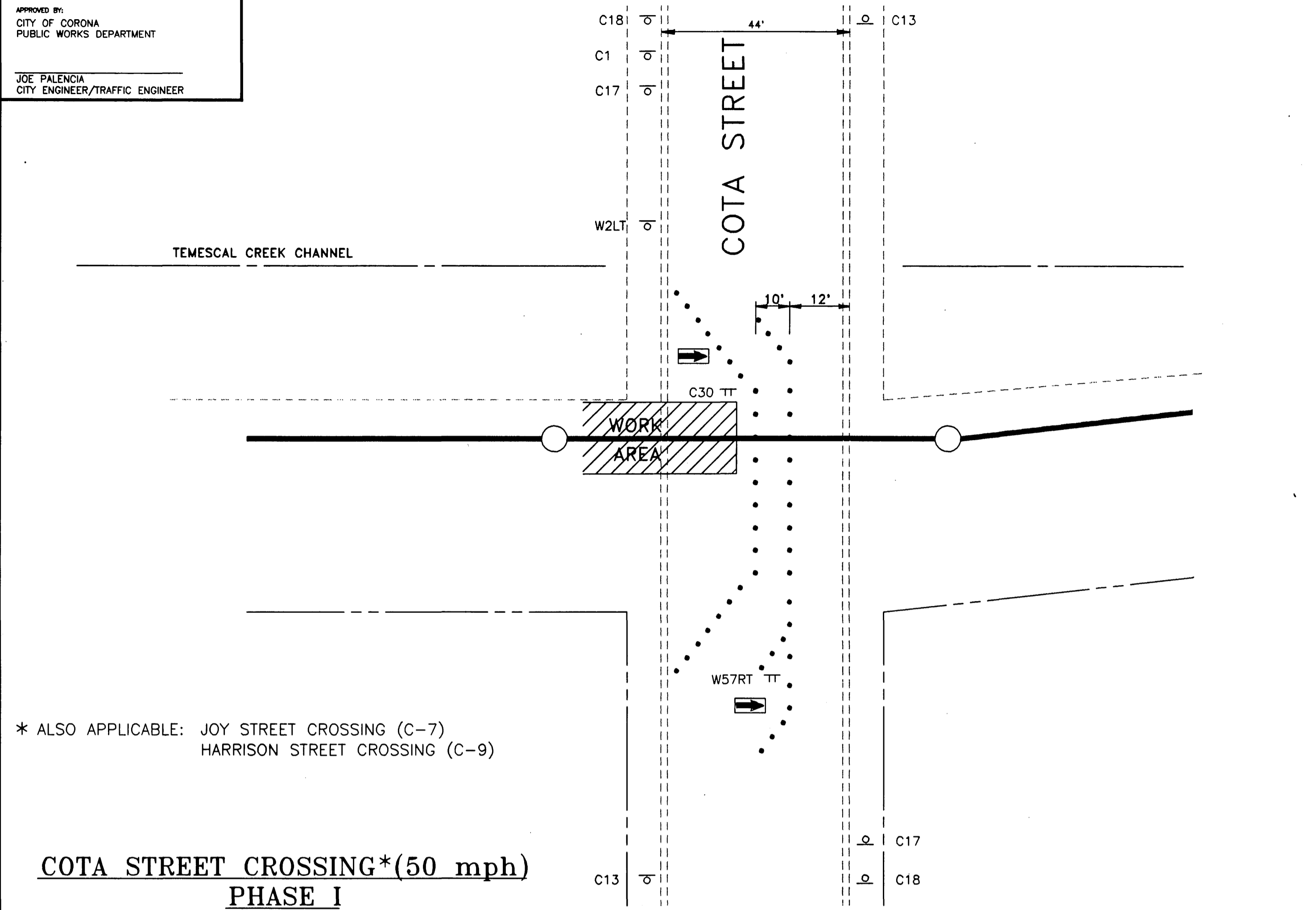
REGISTERED PROFESSIONAL ENGINEER
BRUCE A. DAVIS
NO. 40
EXP. 12-31-99
STATE OF CALIFORNIA

TC-1
3-1711
SHEET
47 OF 55

WASTEWATER 96-097T
INDEXED - 4-23-97 - 4H

APPROVED BY:
CITY OF CORONA
PUBLIC WORKS DEPARTMENT

JOE PALENCIA
CITY ENGINEER/TRAFFIC ENGINEER



NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

ALBERTA WEBB ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCray Street (909) 886-1070 RIVERSIDE, CA.

DESIGNED: B.A.D.
 DETAILED: R.L.P.
 CHECKED: M.E.W.
 APPROVED: L.S.E.
 DATE: 6/96

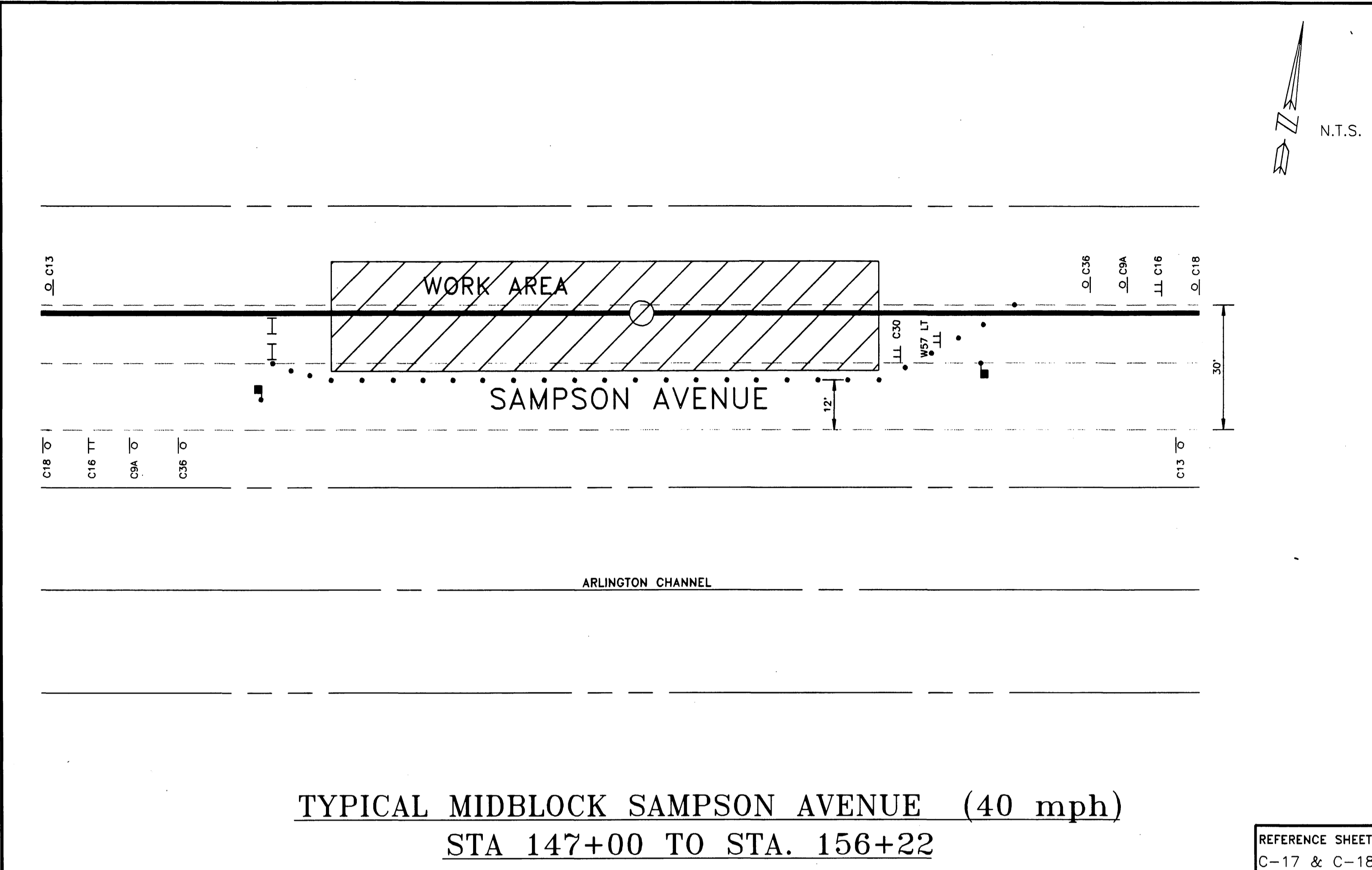


PROJECT NO. 96-142
 SCALE: AS NOTED

WESTERN RIVERSIDE COUNTY REGIONAL WASTEWATER SYSTEM SOUTH REGIONAL COLLECTION SYSTEM
NONRECLAIMABLE WASTEWATER SEWER TRAFFIC CONTROL PLANS

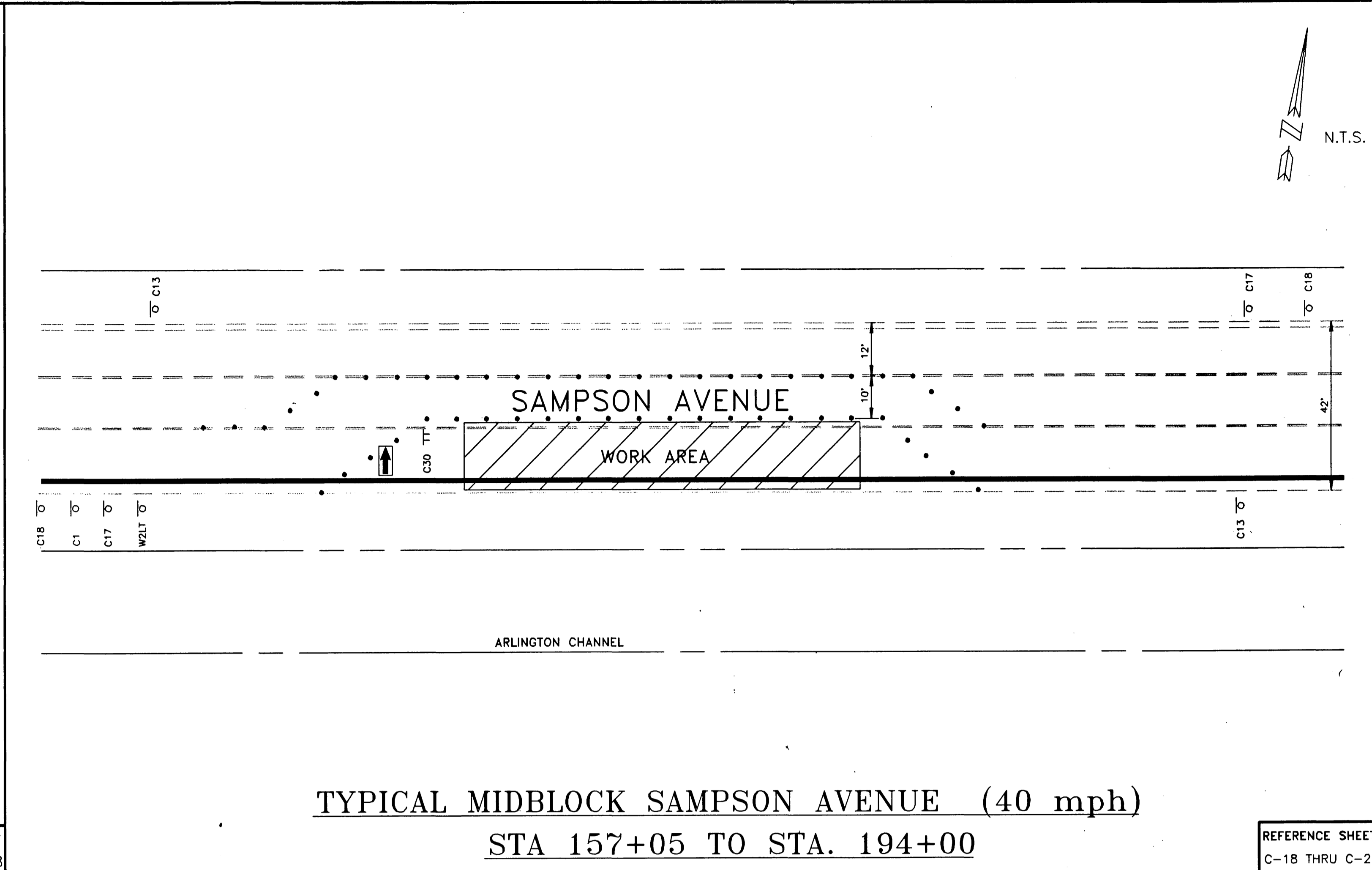


TC-2
 S-1711
 SHEET
 48 OF 55



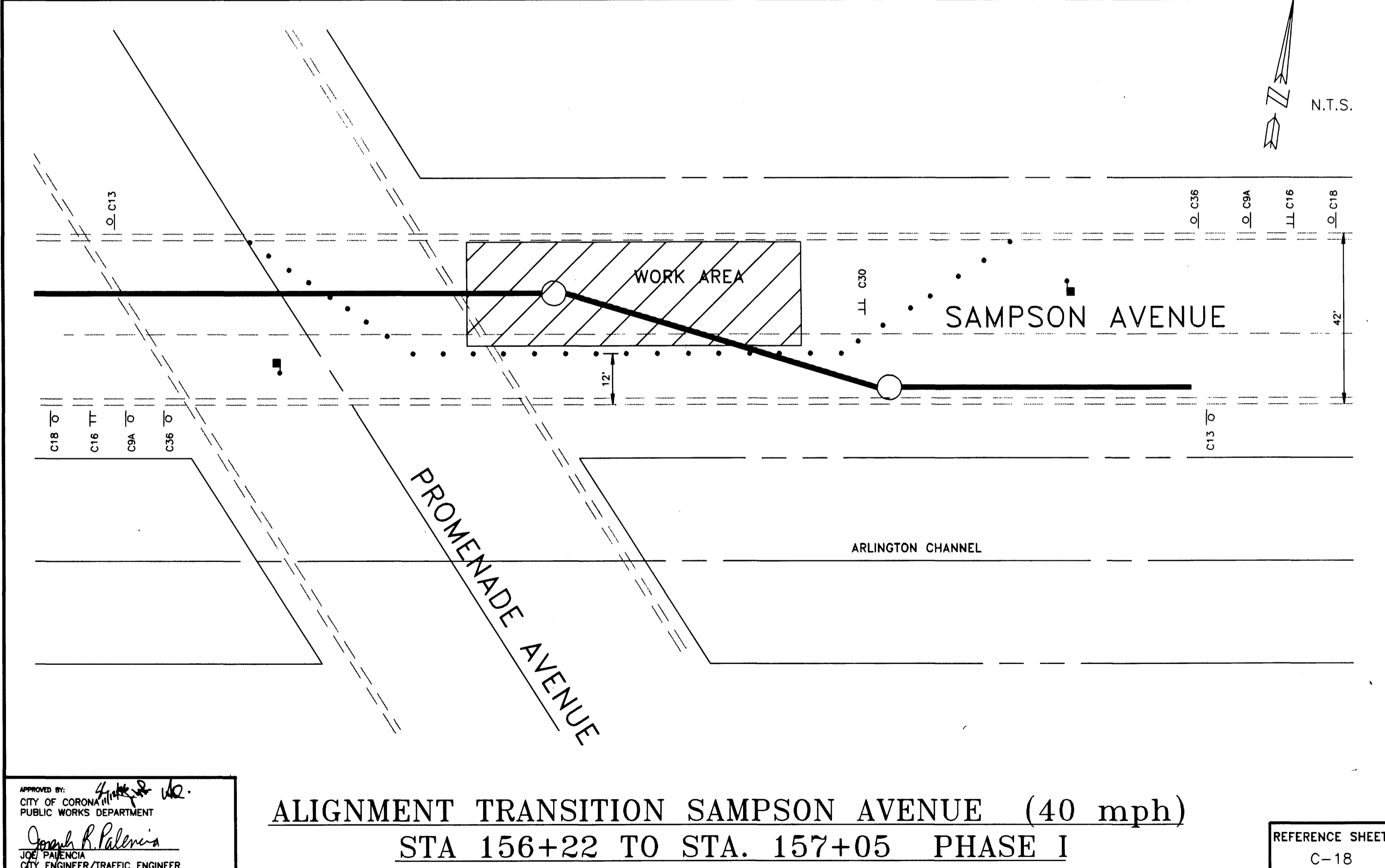
TYPICAL MIDBLOCK SAMPSON AVENUE (40 mph)
STA 147+00 TO STA. 156+22

REFERENCE SHEET
C-17 & C-18



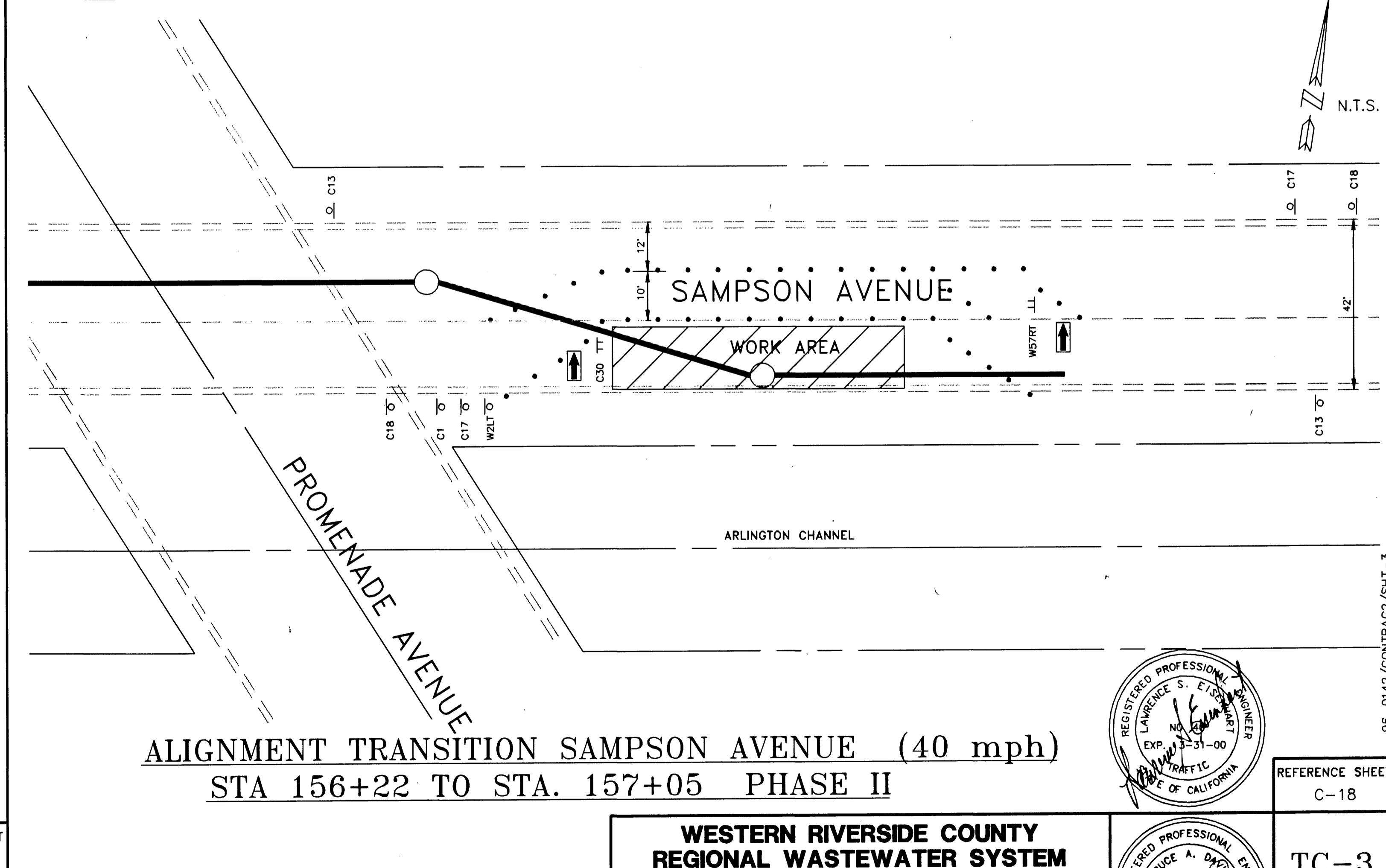
TYPICAL MIDBLOCK SAMPSON AVENUE (40 mph)
STA 157+05 TO STA. 194+00

REFERENCE SHEET
C-18 THRU C-21



ALIGNMENT TRANSITION SAMPSON AVENUE (40 mph)
STA 156+22 TO STA. 157+05 PHASE I

REFERENCE SHEET
C-18



ALIGNMENT TRANSITION SAMPSON AVENUE (40 mph)
STA 156+22 TO STA. 157+05 PHASE II

REFERENCE SHEET
C-18

APPROVED BY:
CITY OF CORONA
PUBLIC WORKS DEPARTMENT
Joseph B. Valencia
JOSE VALENCIA
CITY ENGINEER/TRAFFIC ENGINEER

NO.	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

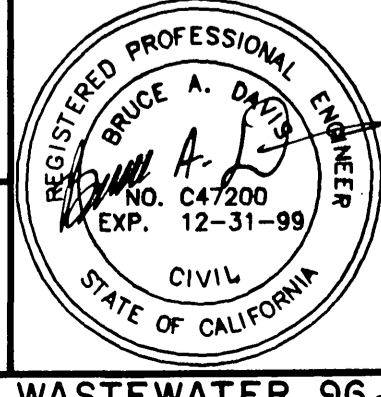
ALBERT A. WEBB ASSOCIATES
ENGINEERS AND CONSULTANTS
3788 MCCRAY STREET (909) 686-1070 RIVERSIDE, CA

DESIGNED: B.A.D.
CHECKED: R.L.P.
APPROVED: M.E.W.
DATE: L.S.E. 6/96



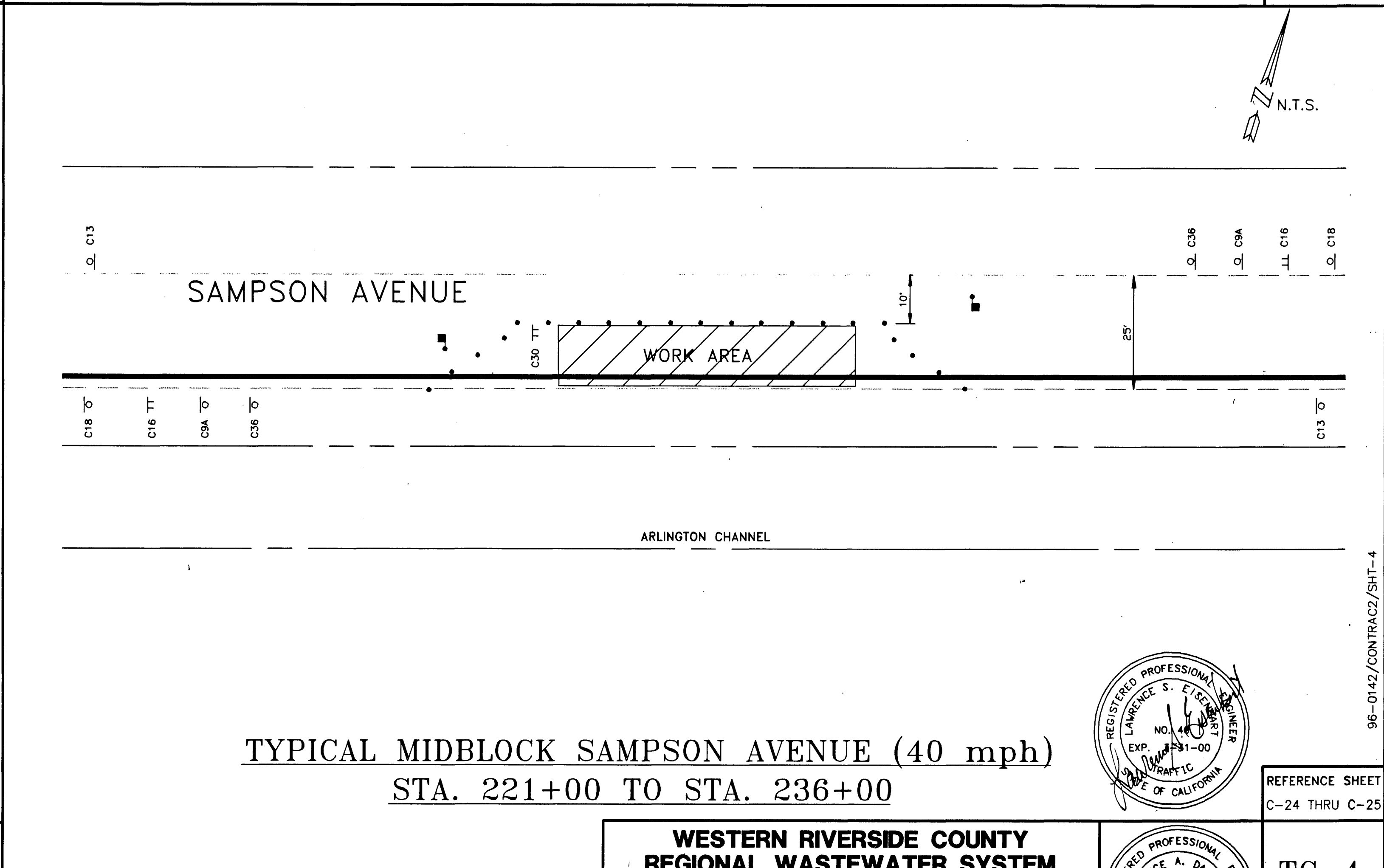
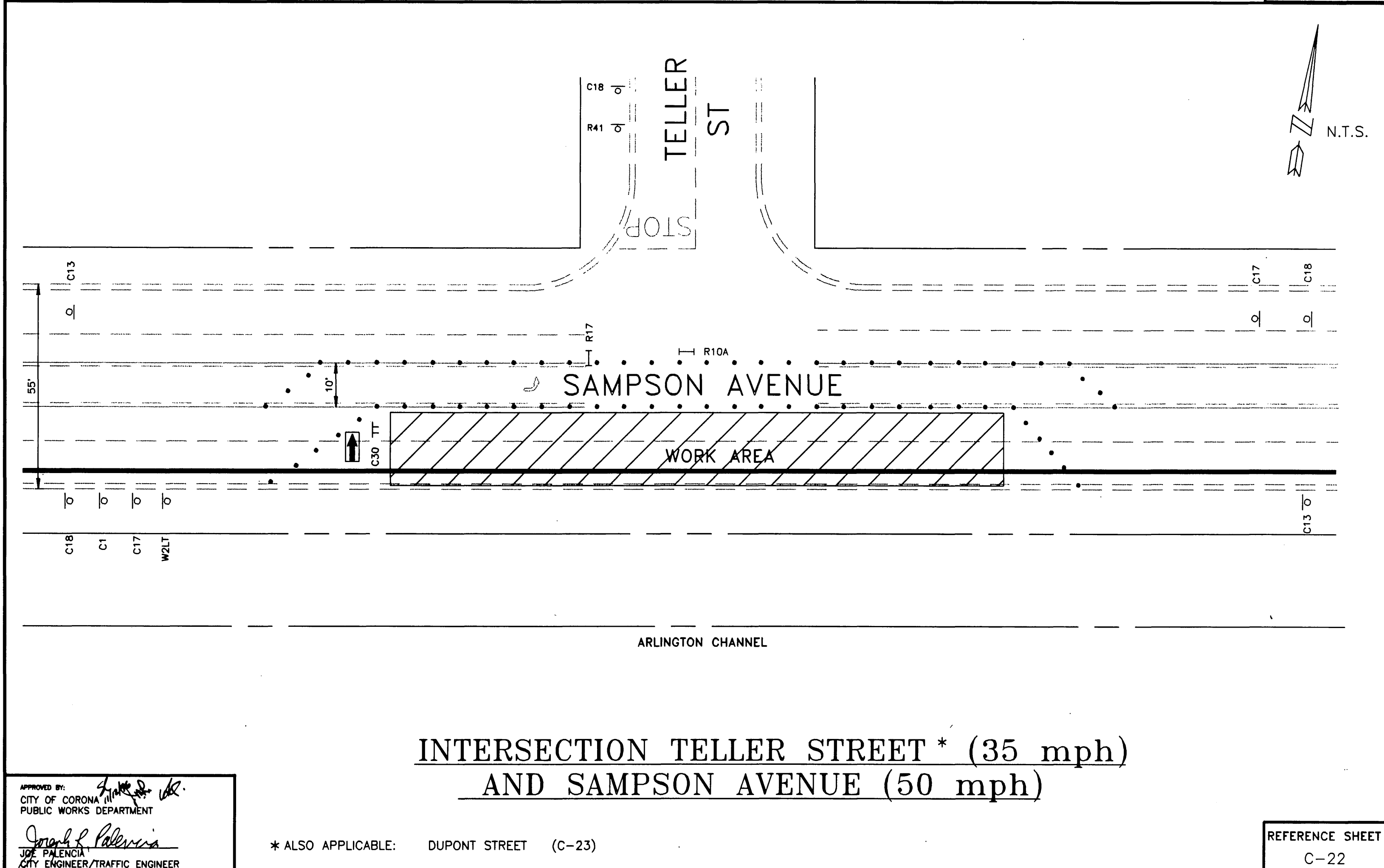
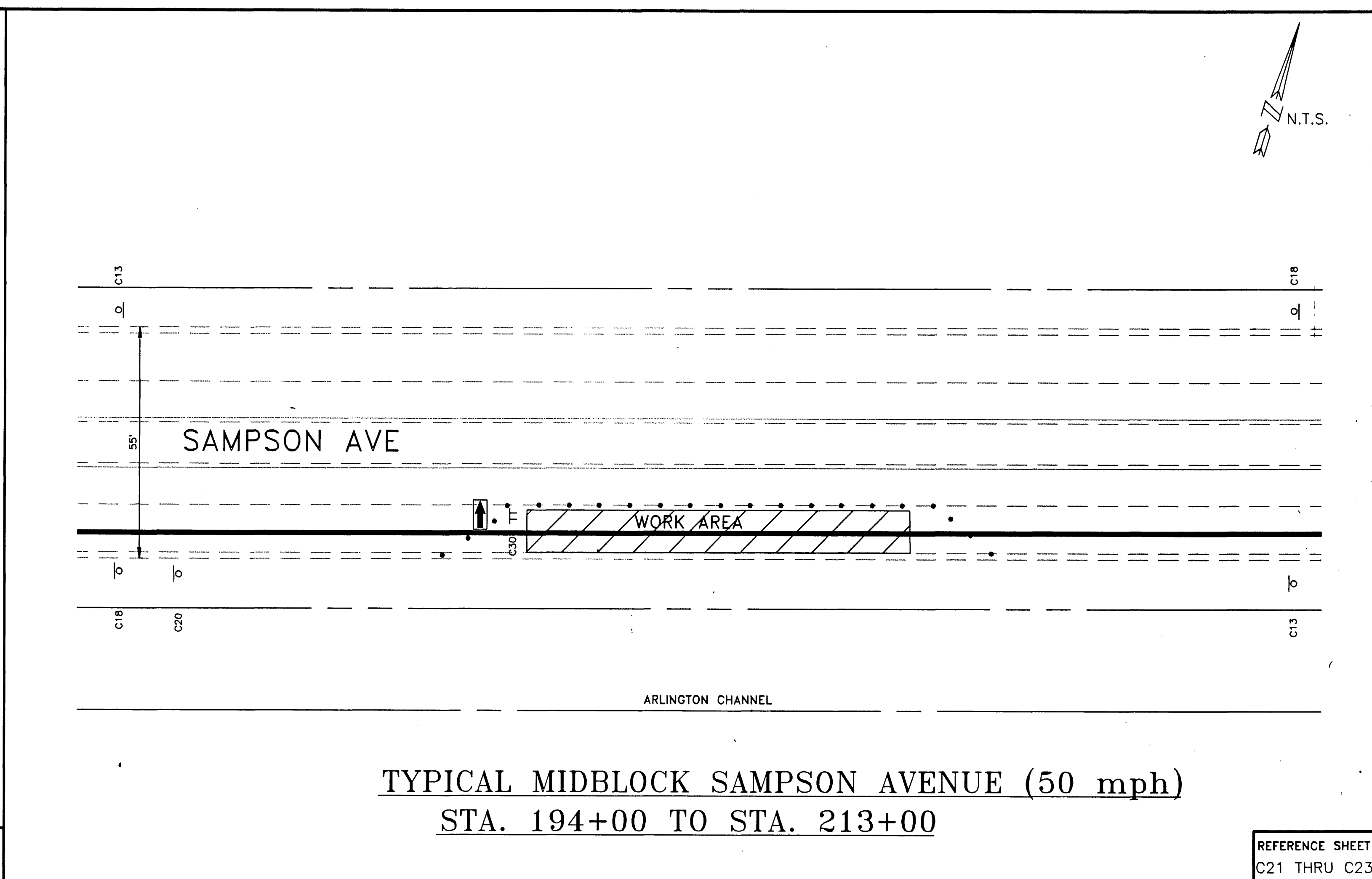
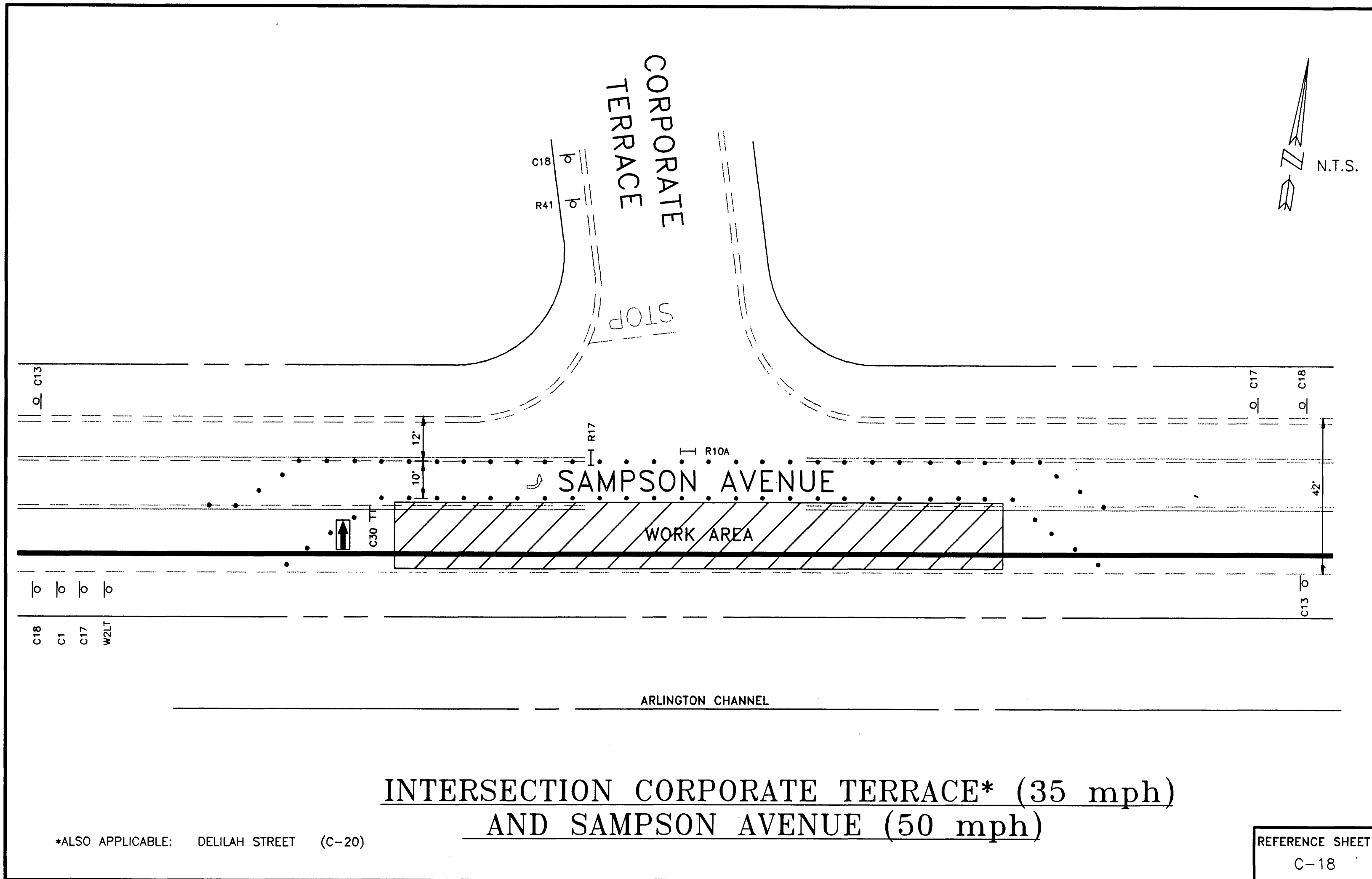
PROJECT NO.
96-142
SCALE:
AS NOTED

**WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM**
**NONRECLAIMABLE WASTEWATER SEWER
TRAFFIC CONTROL PLANS**



TC-3
S-1711
SHEET
49 OF 55

96-0142/CONTRACT/SHT-3



APPROVED BY: *[Signature]*
CITY OF CORONA III
PUBLIC WORKS DEPARTMENT

[Signature]
JOE PALEONIA
CITY ENGINEER/TRAFFIC ENGINEER

NO.	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

ALBERT A. WEBB ASSOCIATES
ENGINEERS ARCHITECTS
3788 McCRAY STREET RIVERSIDE, CA. 92504
(909) 686-1070

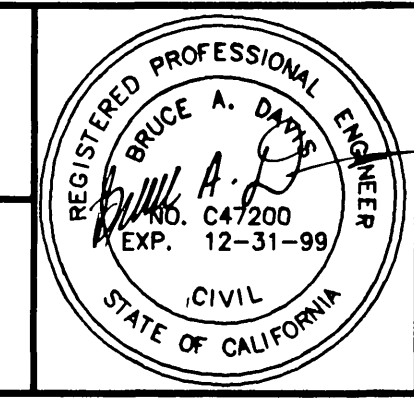
DESIGNED: B.A.D.
CHECKED: R.L.P.
APPROVED: M.E.W.
DATE: L.S.E. 6/96



PROJECT NO.
96-142
SCALE:
AS NOTED

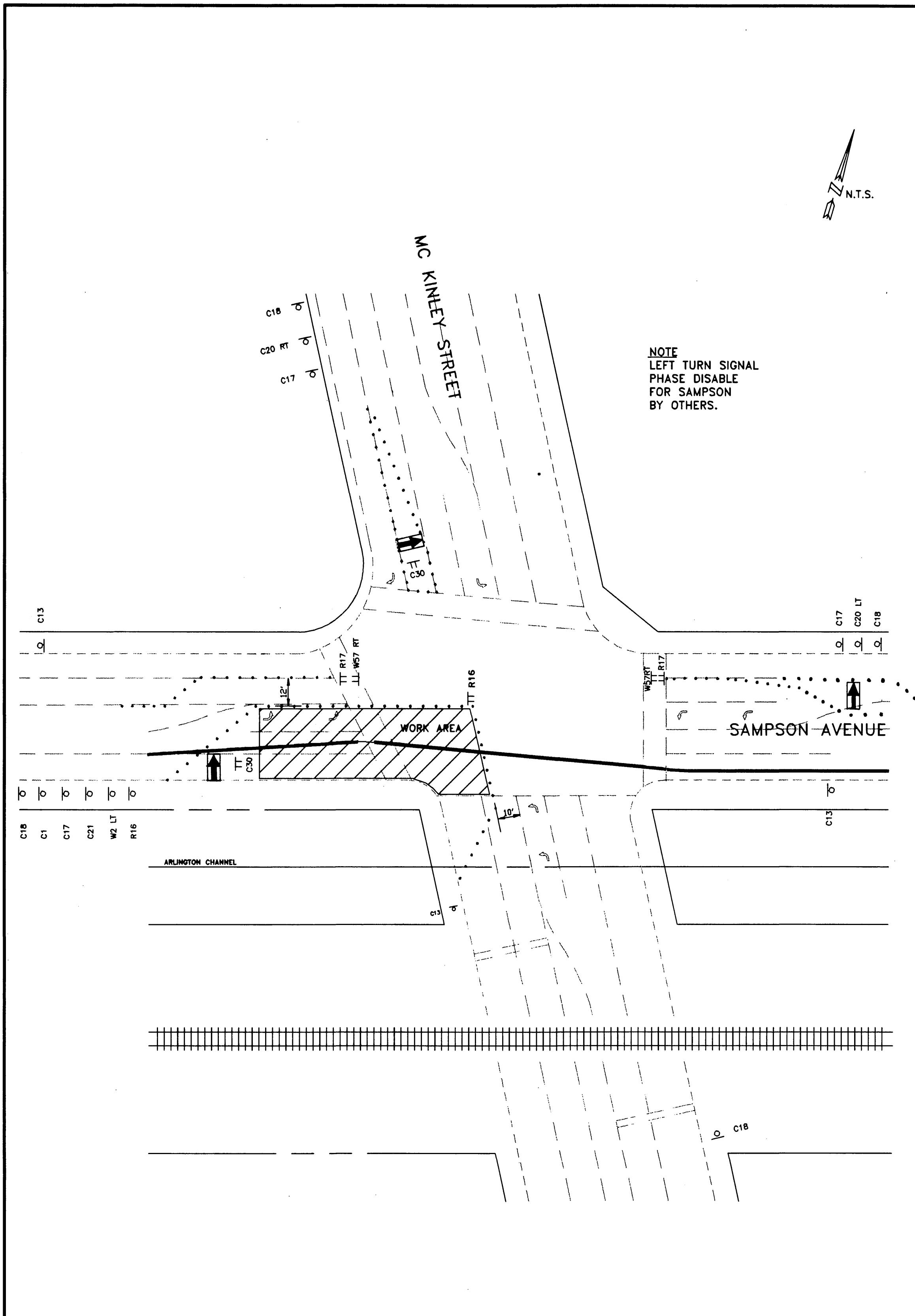
**WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM**

**NONRECLAIMABLE WASTEWATER SEWER
TRAFFIC CONTROL PLANS**

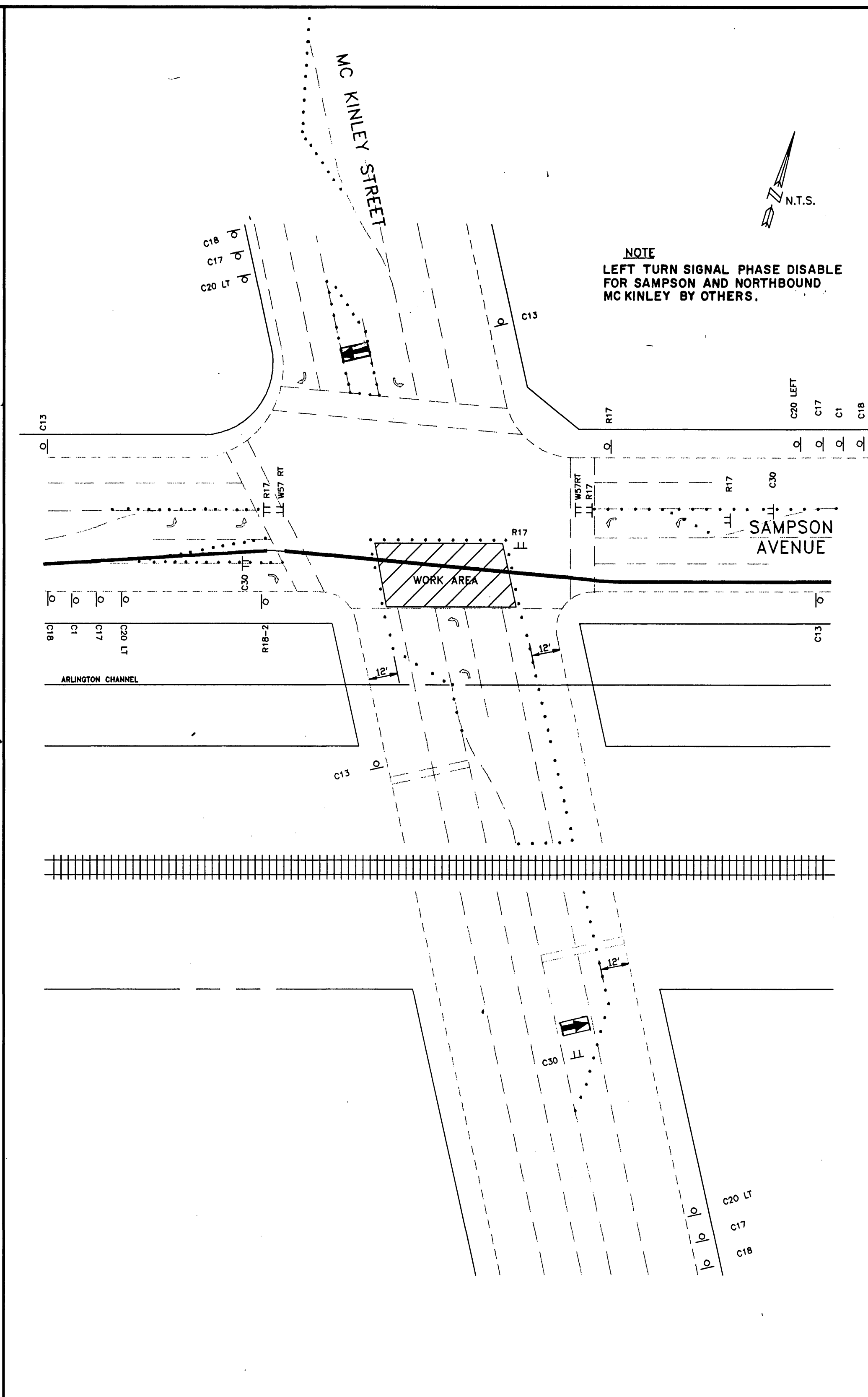


TC-4
S-1711
SHEET
50 OF 55

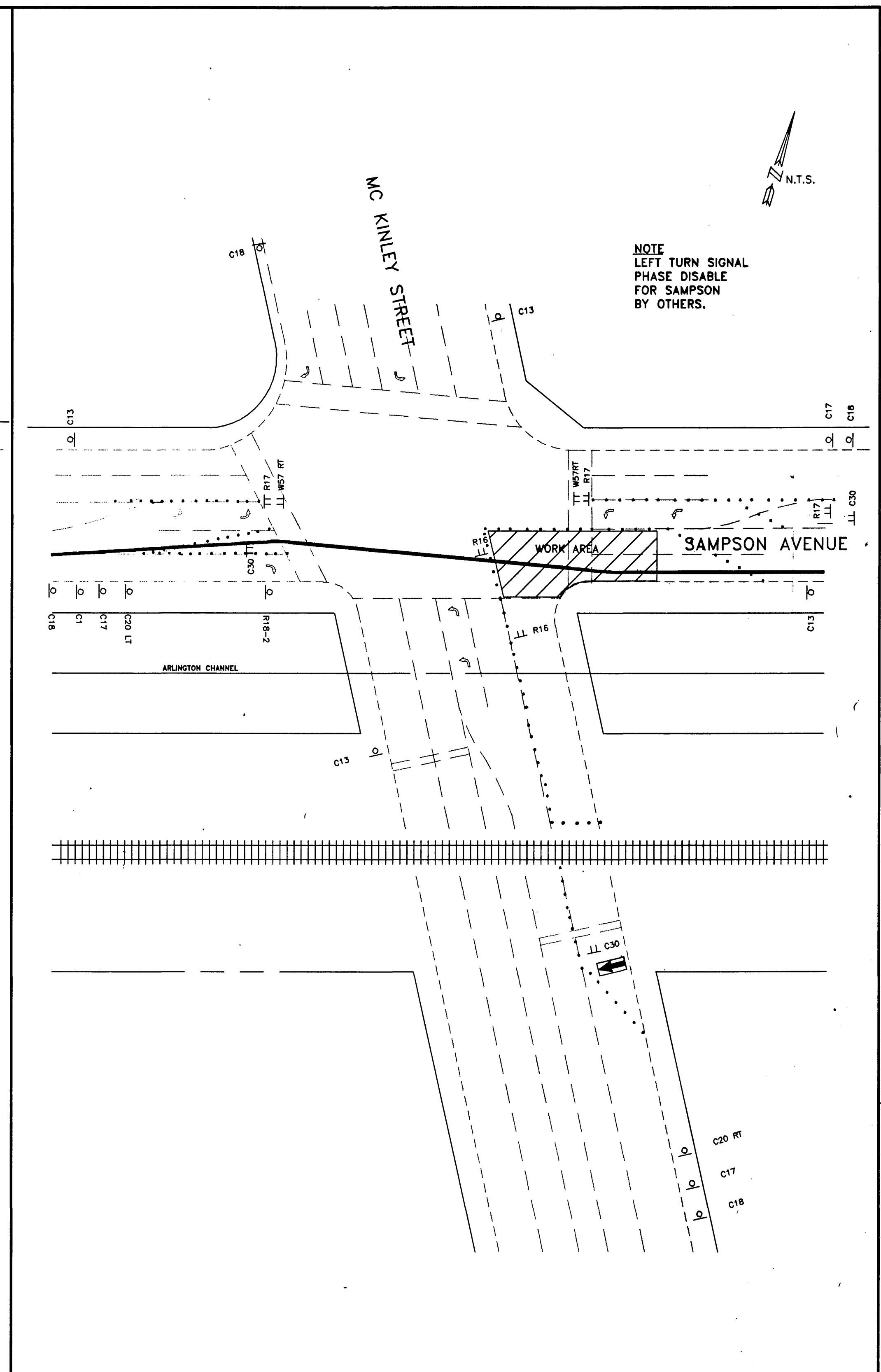
96-0142/CONTRACT/SHT-4



INTERSECTION SAMPSON AVENUE (50 mph)
and MCKINLEY STREET (50 MPH) - PHASE I



INTERSECTION SAMPSON AVENUE (50 mph)
and MCKINLEY STREET (50 MPH) - PHASE II



INTERSECTION SAMPSON AVENUE (50 mph)
and MCKINLEY STREET (50 MPH) - PHASE III

APPROVED BY: *[Signature]*
CITY OF CORONA
PUBLIC WORKS DEPARTMENT
JOB # 96-142
CITY ENGINEER/TRAFFIC ENGINEER

REFERENCE SHEET
C-24

REFERENCE SHEET
C-24

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

ALBERTA
WEBB
ASSOCIATES
CONSULTANTS
3788 McCRAY STREET RIVERSIDE, CA.
(909) 686-1070

DESIGNED: B.A.D.
CHECKED: R.L.P.
APPROVED: M.E.W.
DATE: L.S.E.
6/96



PROJECT NO.
96-142
SCALE:
AS NOTED

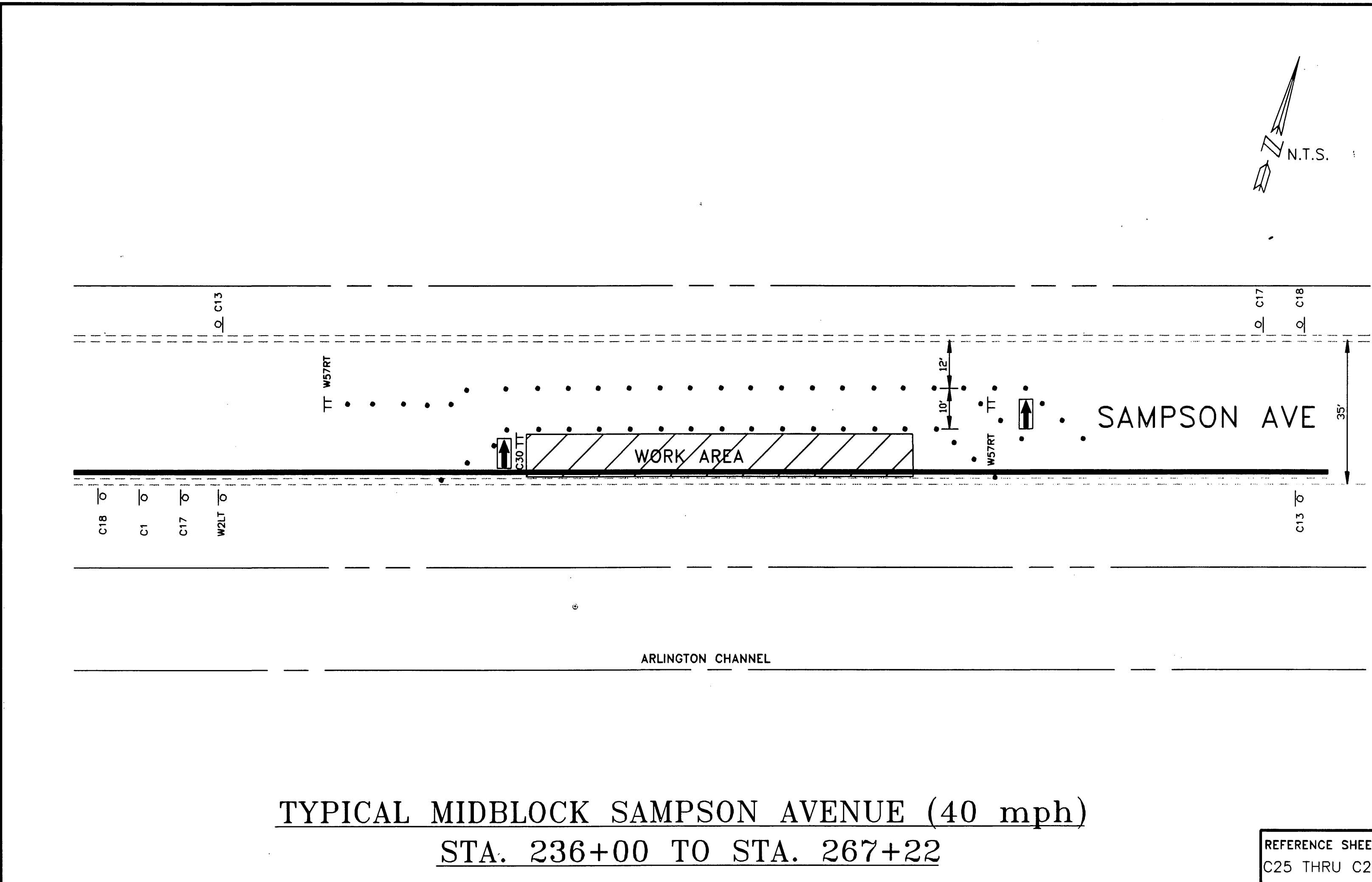
**WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM**

**NONRECLAIMABLE WASTEWATER SEWER
TRAFFIC CONTROL PLANS**

REGISTERED PROFESSIONAL ENGINEER
LAWRENCE S. FLETCHER
NO. 4750
EXP. 12-31-00
TRAFFIC
STATE OF CALIFORNIA

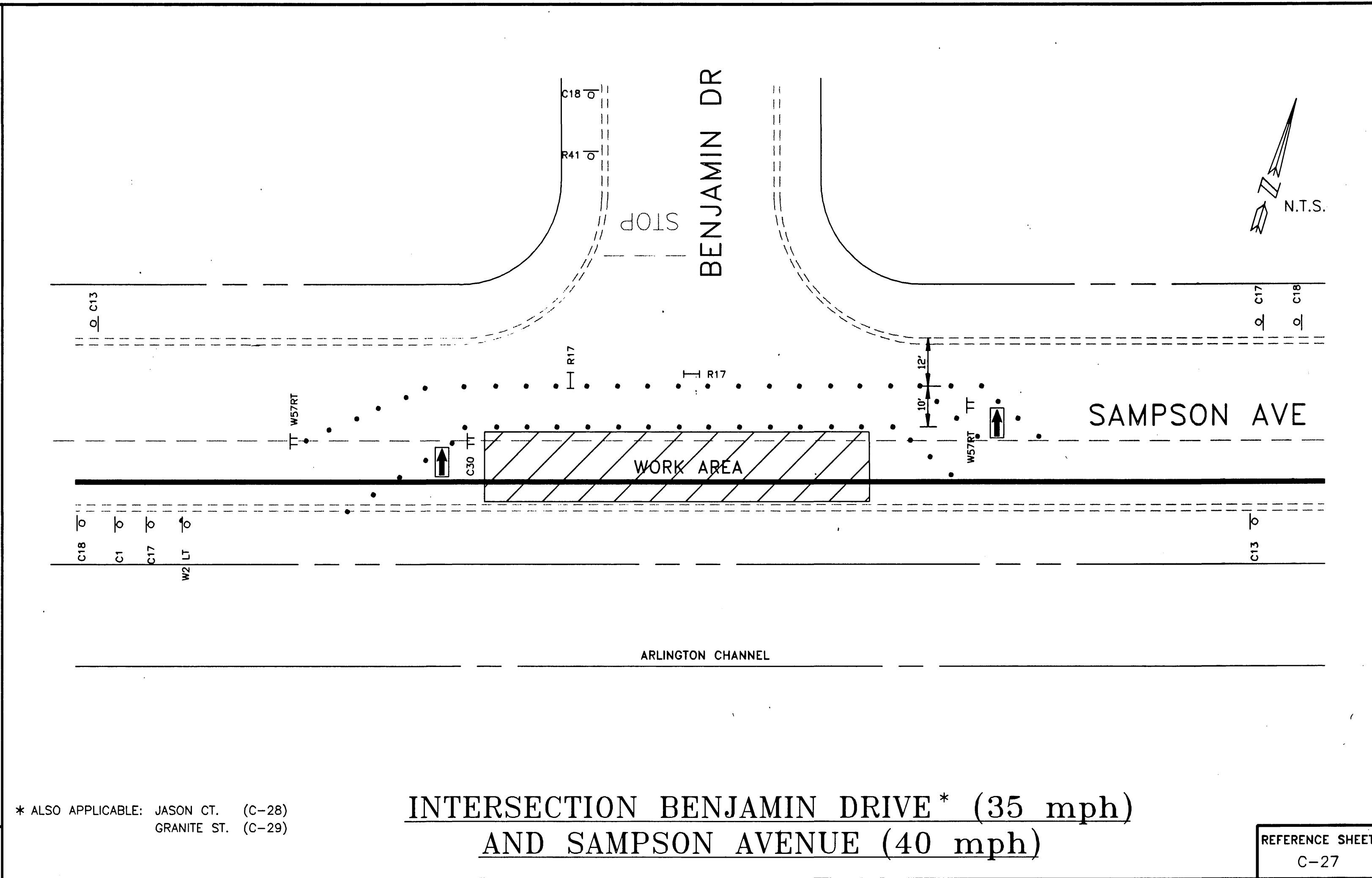
REFERENCE SHEET
C-24

TC-5
S-1711
SHEET
51 OF 55



TYPICAL MIDBLOCK SAMPSON AVENUE (40 mph)
STA. 236+00 TO STA. 267+22

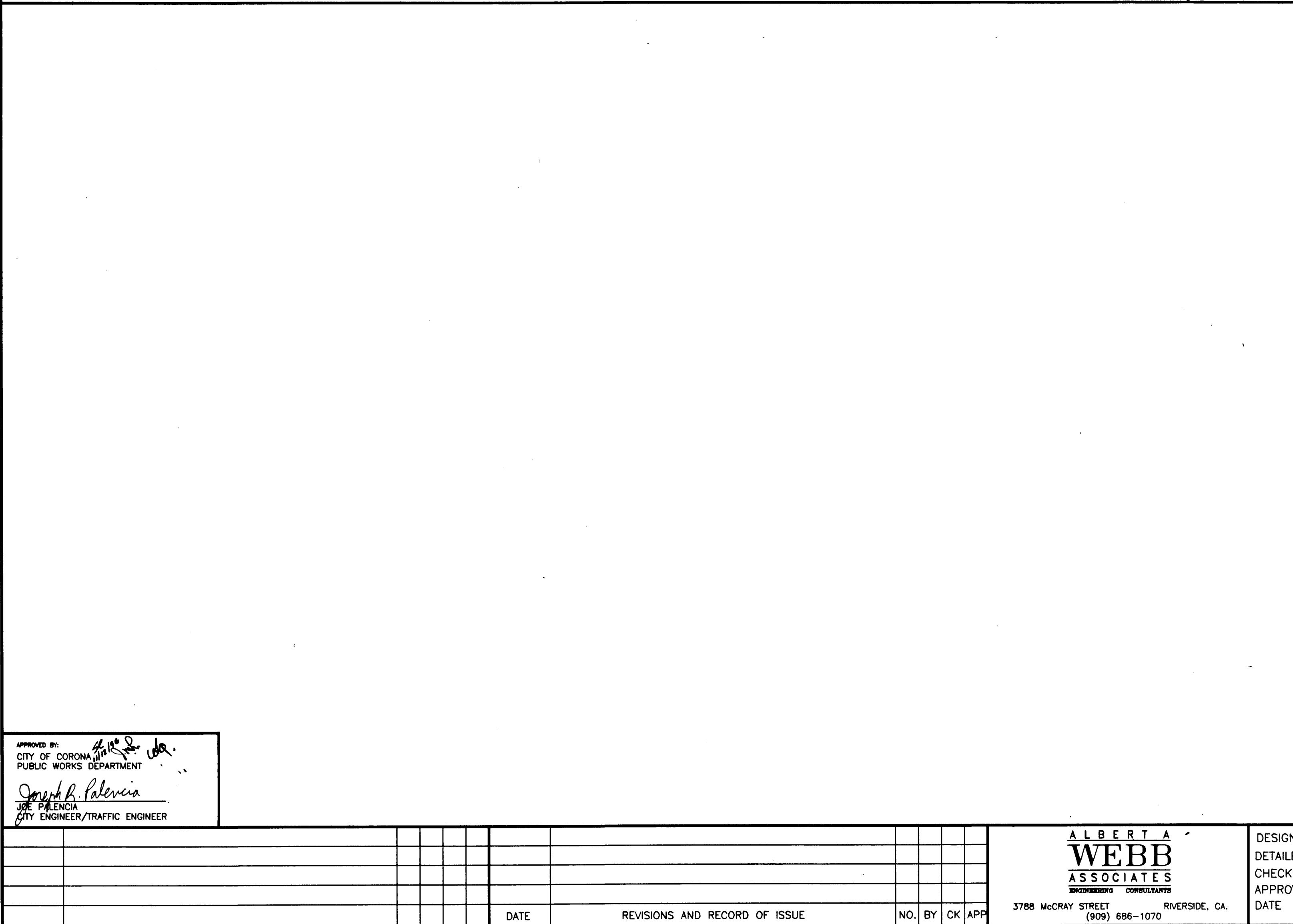
REFERENCE SHEET
C25 THRU C29



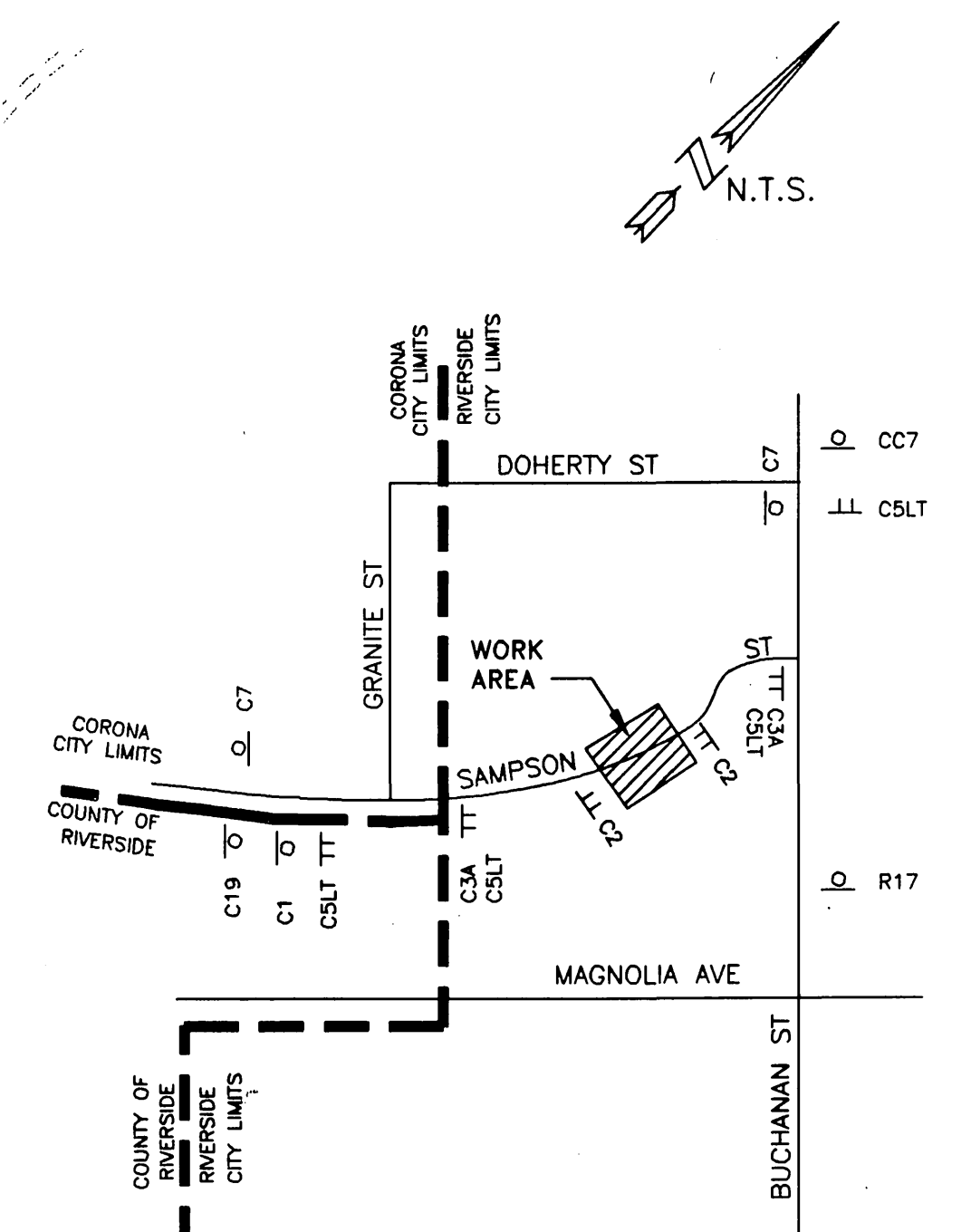
INTERSECTION BENJAMIN DRIVE* (35 mph)
AND SAMPSON AVENUE (40 mph)

* ALSO APPLICABLE: JASON CT. (C-28)
GRANITE ST. (C-29)

REFERENCE SHEET
C-27



SAMPSON STREET CROSSING (25 mph)
STA 267+22 TO STA 269+00
STA 273+50 TO STA 274+20



REFERENCE SHEET
C-30

APPROVED BY:
CITY OF CORONA
PUBLIC WORKS DEPARTMENT
Joseph B. Palencia
JOE PALENCIA
CITY ENGINEER/TRAFFIC ENGINEER

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

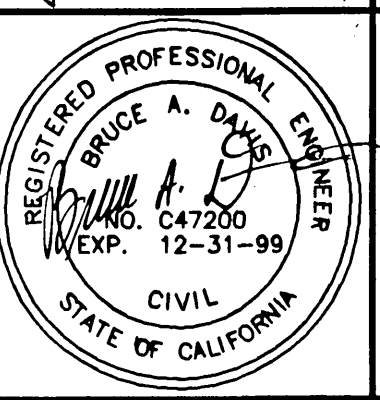
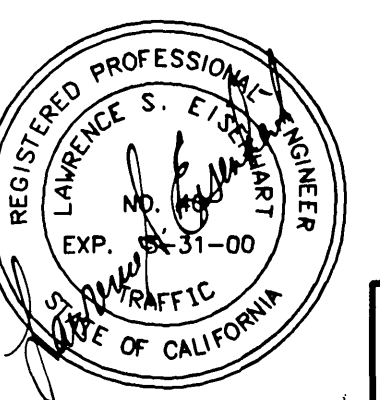
ALBERTA
WEBB
ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCray Street
(909) 686-1070
RIVERSIDE, CA.

DESIGNED: B.A.D.
DETAILED: R.L.P.
CHECKED: M.E.W.
APPROVED: L.S.E.
DATE: 6/96



PROJECT NO.
96-142
SCALE:
AS NOTED

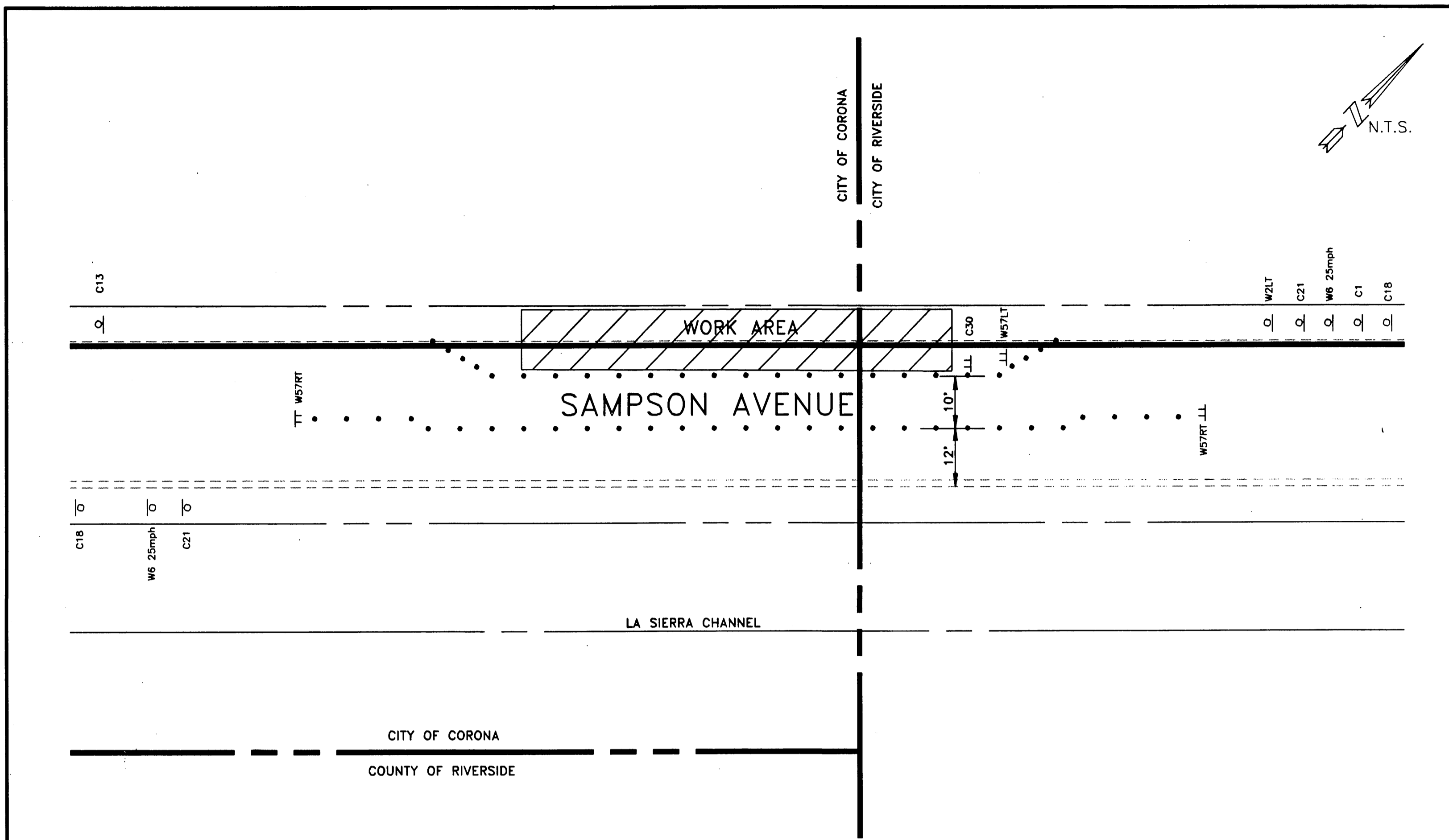
**WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM**
**NONRECLAIMABLE WASTEWATER SEWER
TRAFFIC CONTROL PLANS**



TC-6
S-1711
SHEET
52 OF 55

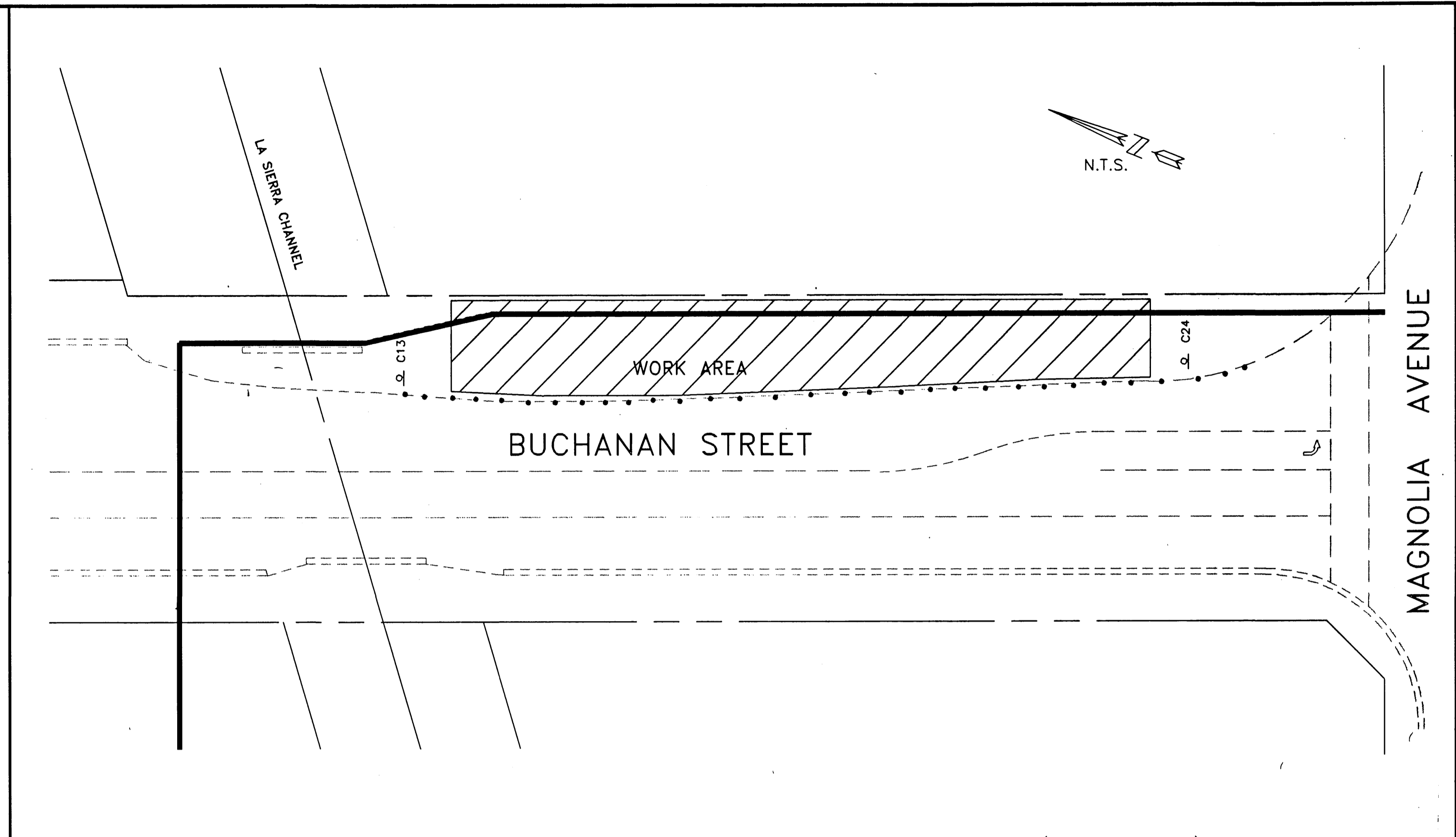
WASTEWATER 96-097T
INDEXED 4-23-99 4/4

96-0142/CONTRAC2/SHT-6



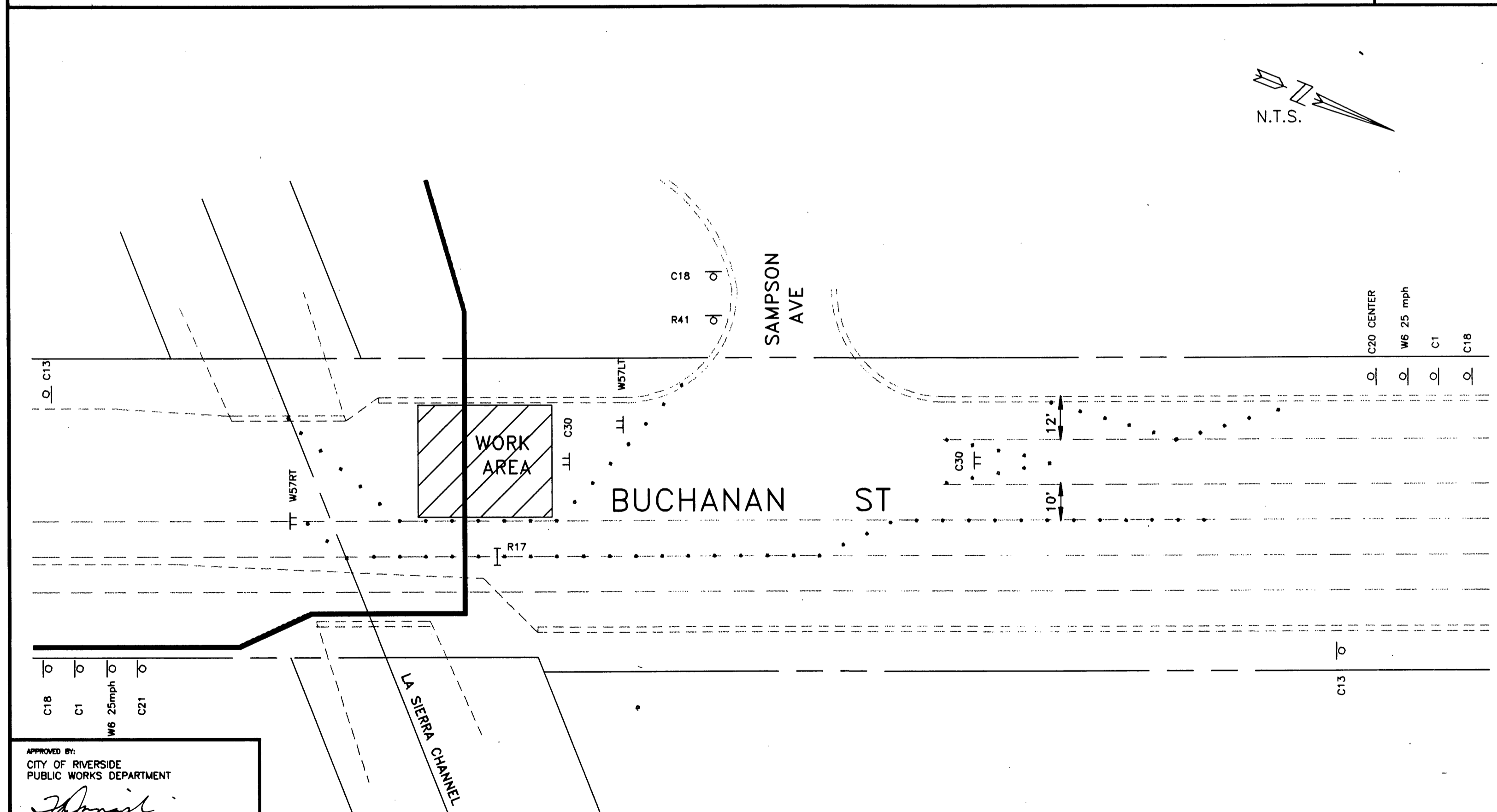
TYPICAL MID BLOCK SAMPSON AVENUE (40 mph)
STA. 269+00 TO STA. 273+50

REFERENCE SHEET
C-29



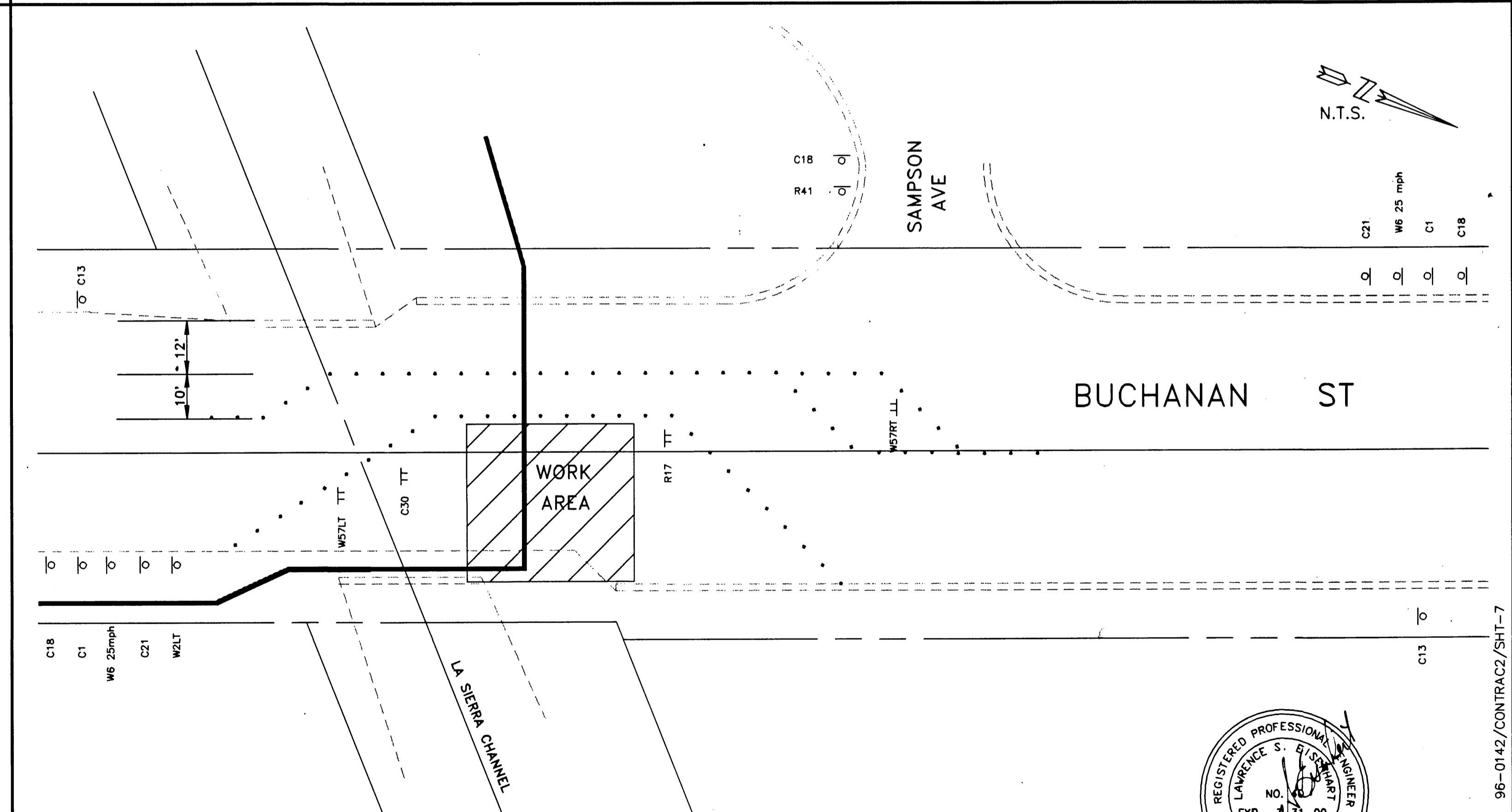
TYPICAL MID BLOCK BUCHANAN STREET (40 mph)
STA 276+00 TO STA 278+50

REFERENCE SHEET
C-30



BUCHANAN STREET CROSSING (40 mph) PHASE I

REFERENCE SHEET
C-30

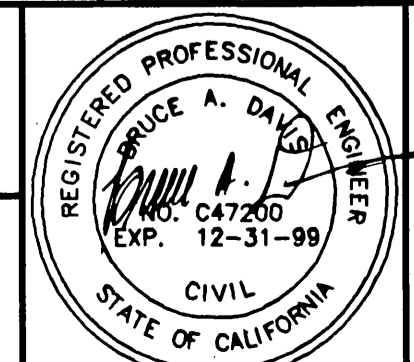


BUCHANAN STREET CROSSING (40 mph) PHASE II

REFERENCE SHEET
C-30

APPROVED BY:
CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Frank Dunajski
FRANK DUNAJSKI
TRAFFIC ENGINEER

APPROVED BY:
CITY OF CORONA
PUBLIC WORKS DEPARTMENT
Joe Palencia
JOE PALENCIA
CITY ENGINEER/TRAFFIC ENGINEER



NO.	DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP

ALBERTA WEBB ASSOCIATES
PROFESSIONAL CONSULTANTS
3788 McCRAY STREET (309) 686-1070 RIVERSIDE, CA.

DESIGNED: B.A.D.
CHECKED: R.L.P.
APPROVED: M.E.W.
DATE: L.S.E.
6/96

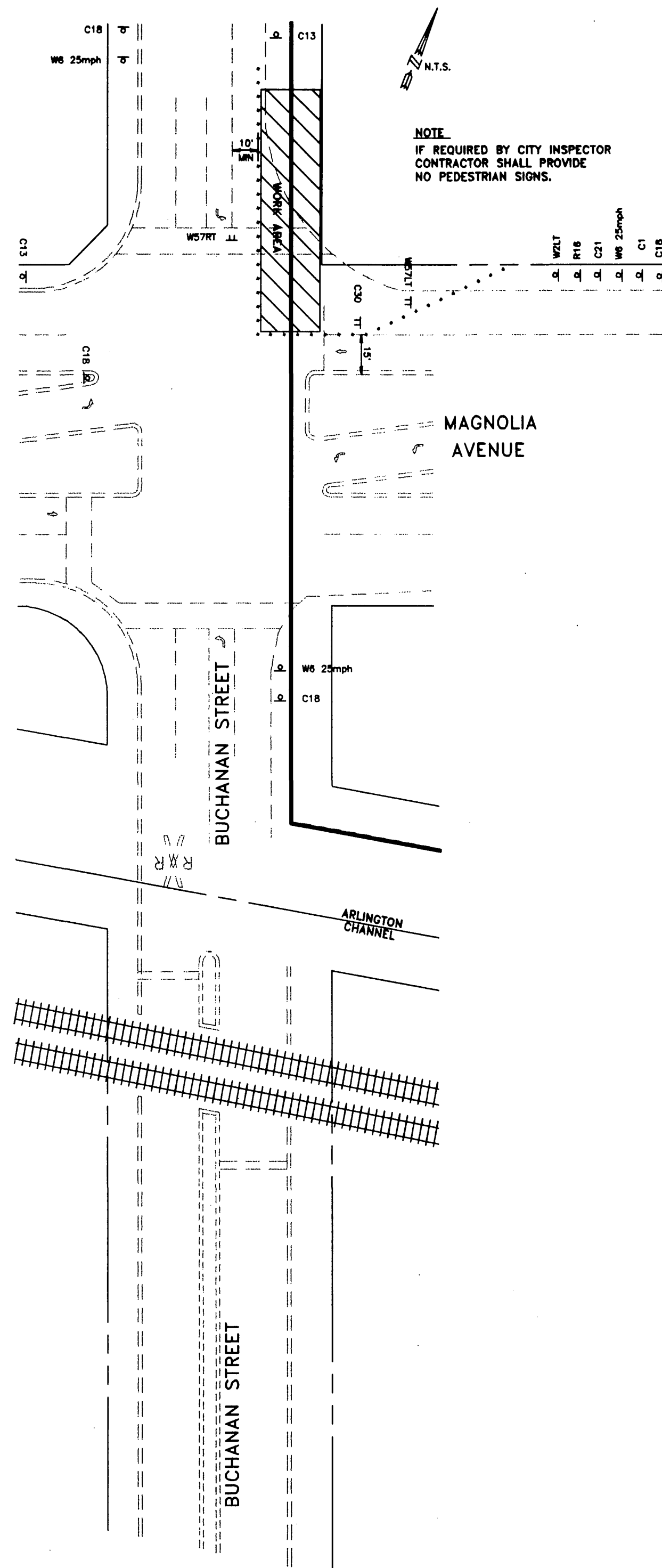


PROJECT NO.
96-142
SCALE:
AS NOTED

**WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM**
**NONRECLAIMABLE WASTEWATER SEWER
TRAFFIC CONTROL PLANS**

TC-7
S-1711
SHEET
53 OF 55

96-0142/CONTRACT2/SHT-7

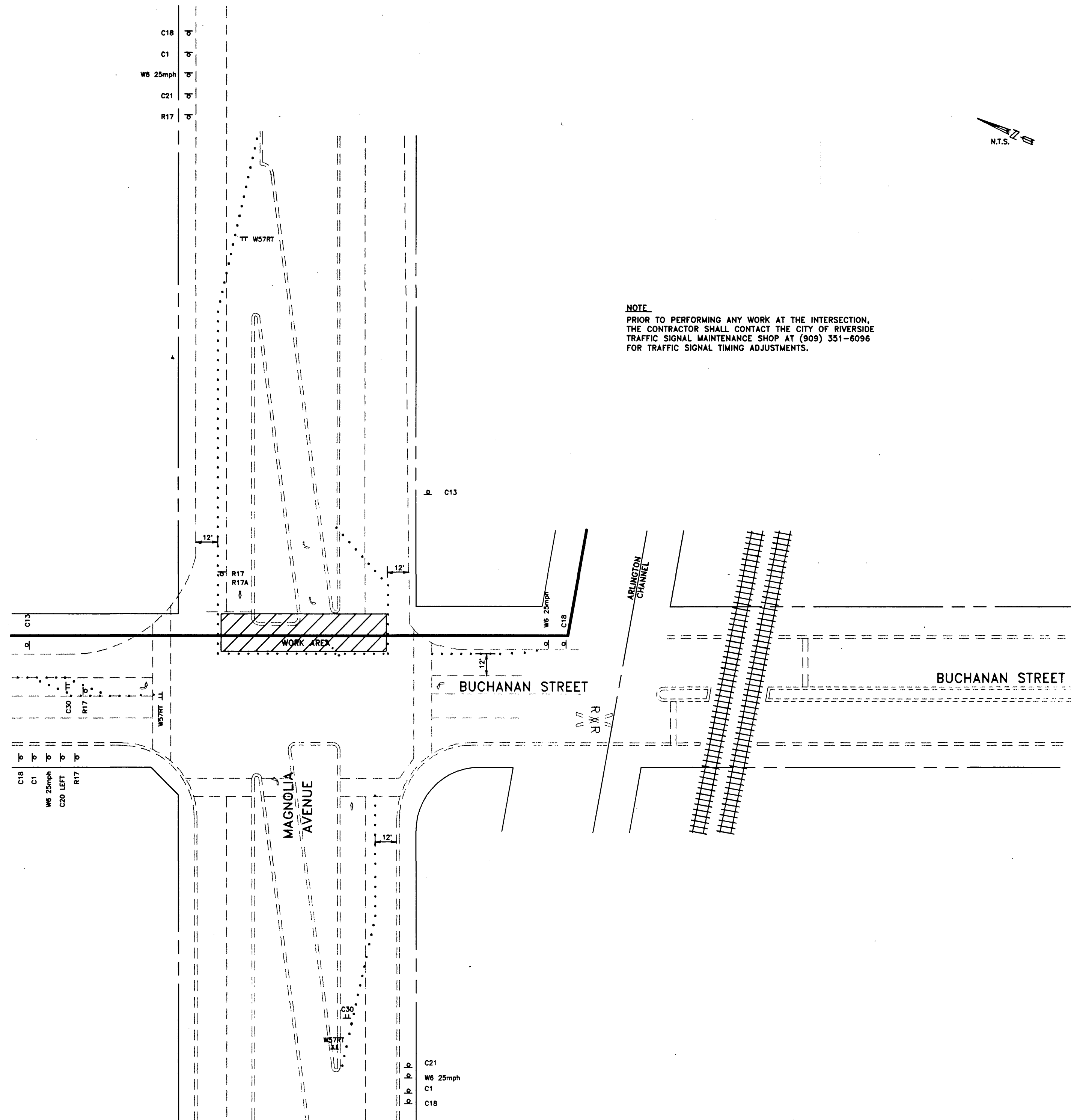


**INTERSECTION MAGNOLIA AVE (50 mph)
and BUCHANAN STREET - PHASE I**

APPROVED BY:
CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
[Signature]
FRAN DUNAJSKI
TRAFFIC ENGINEER

REFERENCE SHEET
C-30

DATE	REVISIONS AND RECORD OF ISSUE	NO.	BY	CK	APP



**INTERSECTION MAGNOLIA AVE (50 mph)
and BUCHANAN STREET - PHASE II**

ALBERT A
WEBB
ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET RIVERSIDE, CA
(909) 686-1070

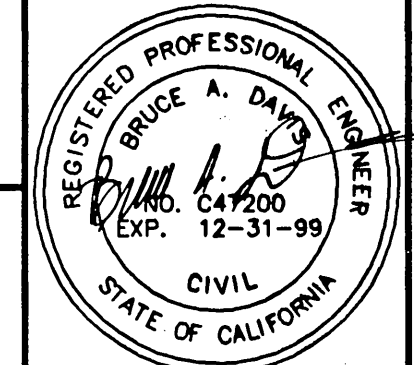
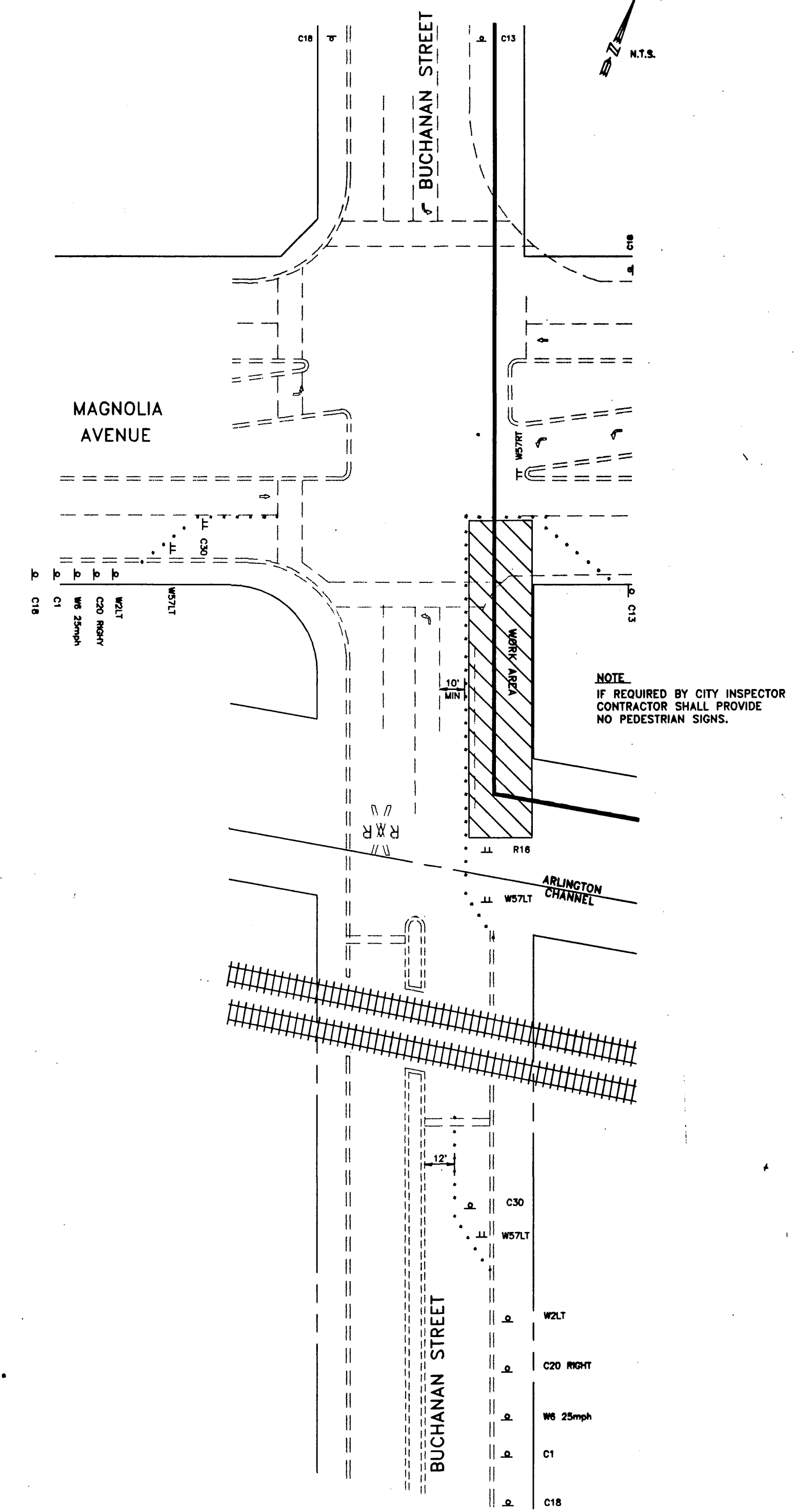
DESIGNED — W.T.M.
DETAILED — R.L.P.
CHECKED — M.E.W.
APPROVED — L.S.E.
DATE — 6/96



REFERENCE SHEET
C-30

PROJECT NO.
96-142
SCALE:
AS NOTED

**INTERSECTION MAGNOLIA AVE (50 mph)
and BUCHANAN STREET - PHASE III**

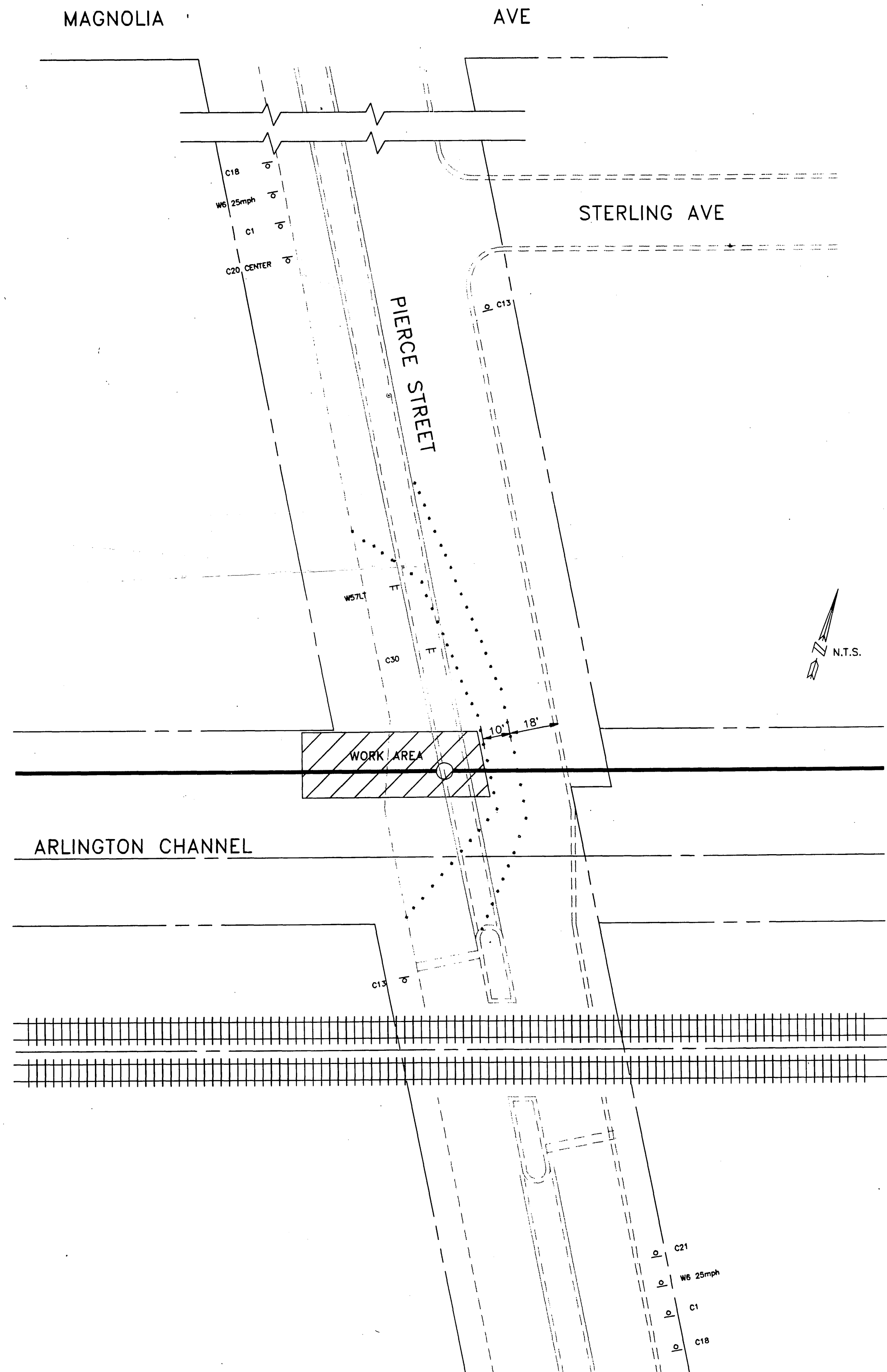


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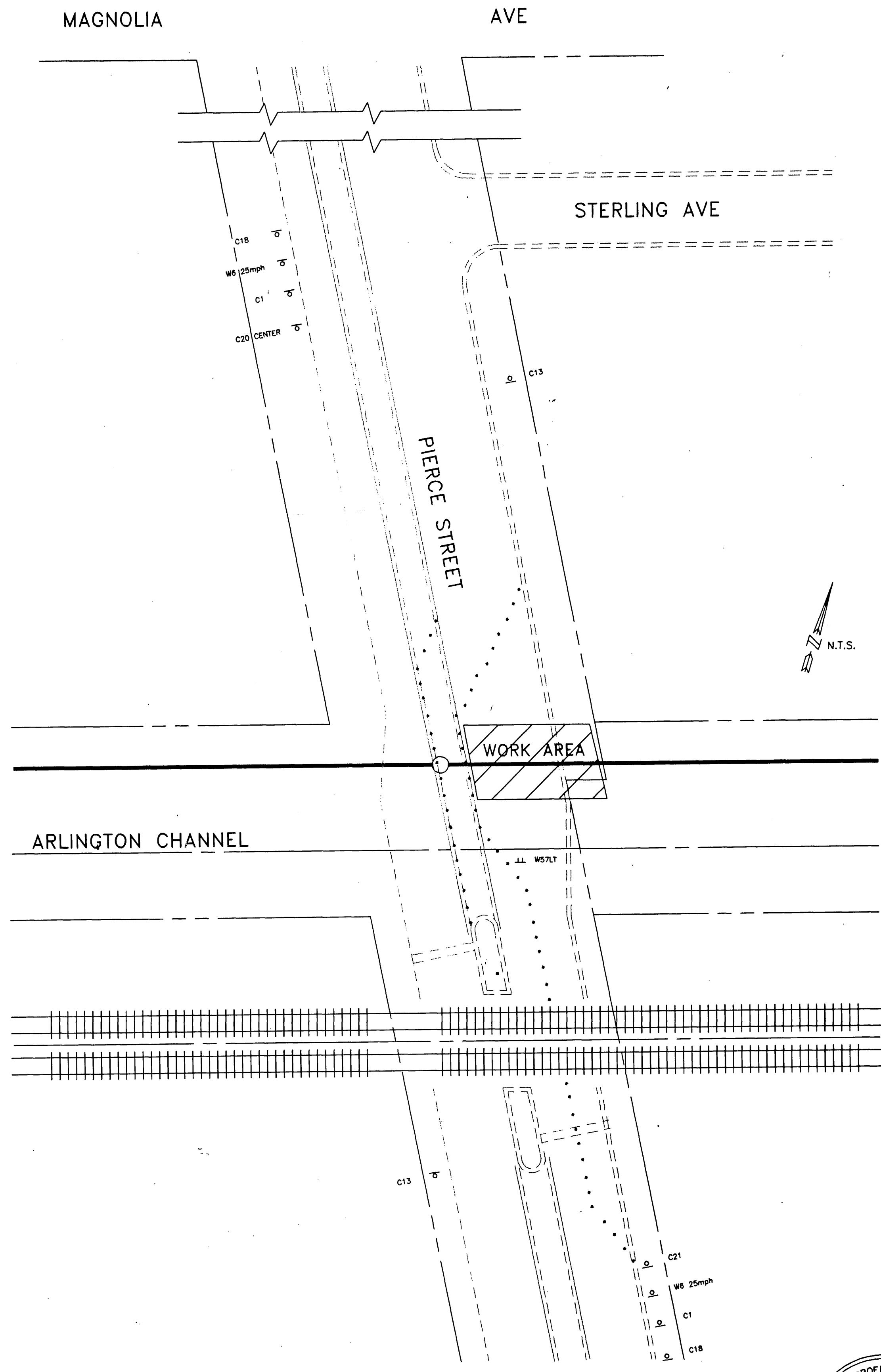
TC-8
S-1711
SHEET
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INDEXED 4-23-99 LFL

96-0142/CONTRACT/SHT-8



PIERCE STREET CROSSING (40 mph) PHASE I



PIERCE STREET CROSSING (40 mph) PHASE II

APPROVED BY:
CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
[Signature]
FRAN DUNAJSKI
TRAFFIC ENGINEER

REFERENCE SHEET
C-33

NO.	BY	CK	APP	DATE	REVISIONS AND RECORD OF ISSUE

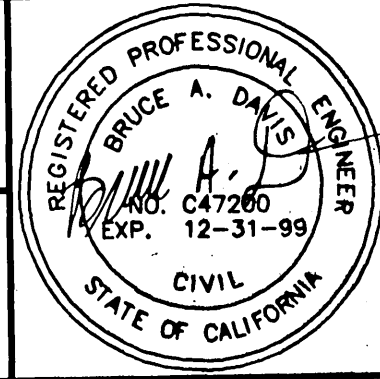
ALBERT A
WEBB
ASSOCIATES
ENGINEERING CONSULTANTS
3788 McCRAY STREET
(909) 686-1070
RIVERSIDE, CA.

DESIGNED W.T.M.
CHECKED R.L.P.
APPROVED M.E.W.
DATE L.S.E.
6/96



PROJECT NO.
96-142
SCALE:
AS NOTED

**WESTERN RIVERSIDE COUNTY
REGIONAL WASTEWATER SYSTEM
SOUTH REGIONAL COLLECTION SYSTEM**
**NONRECLAIMABLE WASTEWATER SEWER
TRAFFIC CONTROL PLANS**



REFERENCE SHEET
C-33

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S-1711
SHEET
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96-0142/CONTRACT/SHT-9