

# WESTERN MUNICIPAL WATER DISTRICT OF RIVERSIDE COUNTY, CALIFORNIA LA SIERRA TRUNK SEWER PIPELINE

CONSIDERED  
MYLARS  
TRUNK SEWER  
WESTERN MUNICIPAL WATER DISTRICT -  
HOWEVER THE CITY LEAD

La Sierra Trunk Sewer - Signed Plans Recd. 3/1/2000.

**WATER CONSTRUCTION NOTES:**

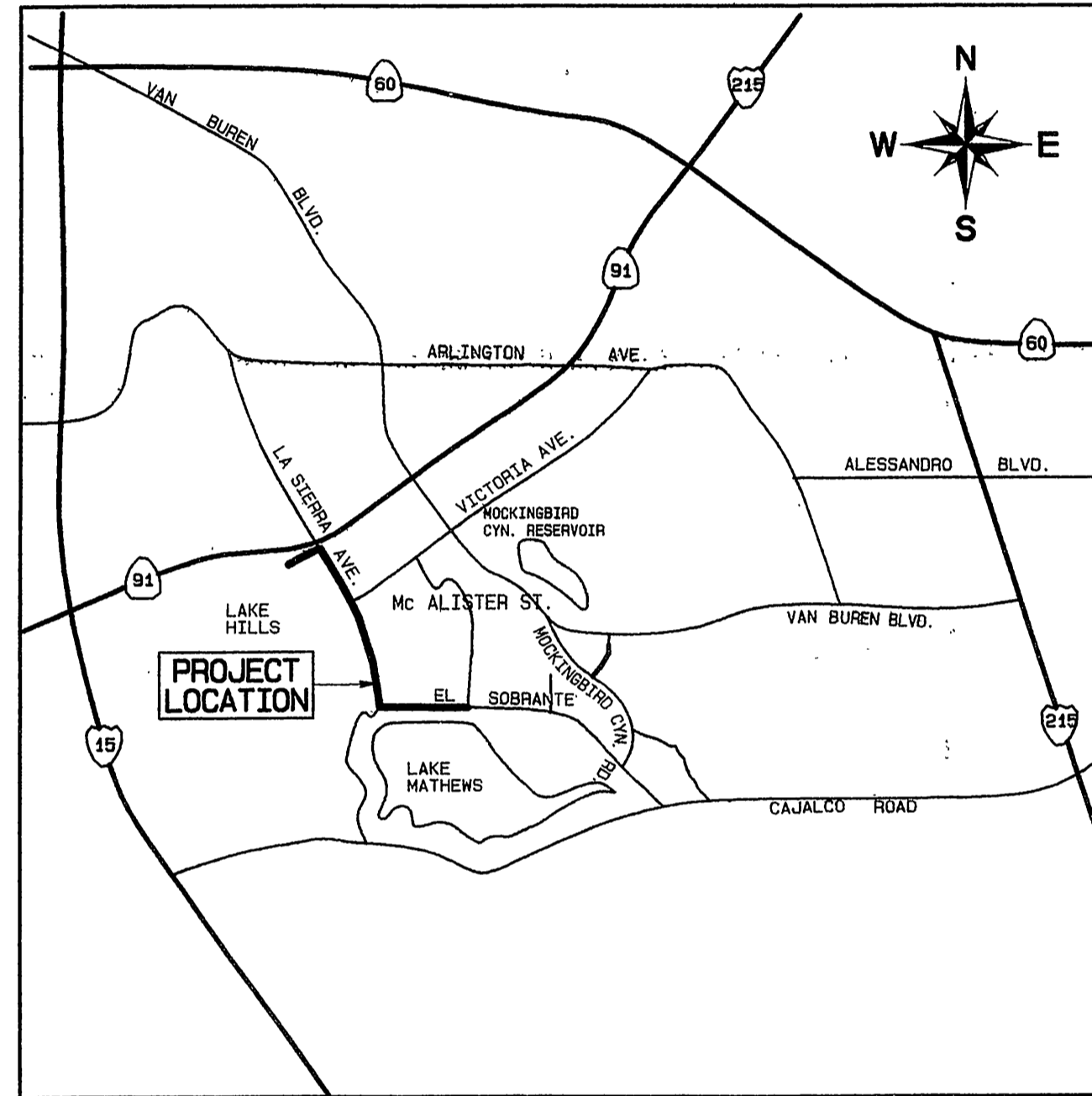
NO.	DESCRIPTION	QUANTITIES
①	CONSTRUCT 18" CEMENT MORTAR LINED AND COATED CLASS 150 (12 GA) WELDED STEEL WATERMAIN AND APPURTENANCES PER MMWD STD. DWG. NO. W-0350.	4,785 L.F.
②	CONSTRUCT 12" P.V.C., CLASS 150 C-900 WATERMAIN.	52 L.F.
③	INSTALL 18" FLANGED BUTTERFLY VALVE ASSEMBLY PER MMWD STD. DWG. W-0670.	4 EA.
④	INSTALL 12" FLANGED x HUB RESILIENT SEAT GATE VALVE PER MMWD STD. DWG. W-0150.	2 EA.
⑤	CONSTRUCT 3" TEMPORARY END OF LINE BLOW-OFF ASSEMBLY PER MMWD STD. DWG. W-0205.	3 EA.
⑥	CONSTRUCT 12" REINFORCED PIPE OUTLET PER MMWD STD. DWG. W-0140.	2 EA.
⑦	CONSTRUCT 2" AIR VACUUM AND AIR RELEASE VALVE ASSEMBLY PER MMWD STD. DWG. W-0470.	2 EA.
⑧	CONSTRUCT 4" GUARD POST PER MMWD STD. DWG. W-1520.	6 EA.
⑨	CONSTRUCT CATHODIC PROTECTION TEST STATION PER MMWD STD. DWG. W-0500.	4 EA.
⑩	INSTALL FLANGE COUPLING ADAPTOR (SIZE AS NOTED ON PLANS).	2 EA.
⑪	PROTECT EXISTING FACILITY IN PLACE.	-----
⑫	REMOVE OR RELOCATE EXISTING FEATURE DURING CONSTRUCTION AND REPLACE UPON COMPLETION.	-----
⑬	REMOVE AND DISPOSE OF EXISTING FACILITY.	-----
⑭	TO BE REMOVED AND/OR RELOCATED BY OTHERS.	-----
⑮	18" HOT TAP CONNECTION W/TAPPING GATE VALVE AND TAPPING SLEEVE.	1 EA.
⑯	CONSTRUCT 18" CEMENT MORTAR LINED AND COATED CLASS 150 WELDED STEEL 4-PIECE 90° ELBOW, R=2.5D.	1 EA.
⑰	CONSTRUCT 18" CEMENT MORTAR LINED AND COATED CLASS 150 WELDED STEEL 4-PIECE 45° ELBOW, R=2.5D.	4 EA.
⑱	CONSTRUCT CATHODIC PROTECTION TEST STATION FLANGE INSULATION GASKET KIT PER MMWD STD. DWG. W-0490.	1 EA.
⑲	CONSTRUCT 4" BLOW-OFF ASSEMBLY PER MMWD STD. DWG. W-0214.	1 EA.

**QUANTITIES**

**SEWER CONSTRUCTION NOTES:**

NO.	DESCRIPTION	QUANTITIES
⑳	CONSTRUCT 18" V.C.P. SEWERMAIN.	6,000 L.F.
㉑	CONSTRUCT 15" V.C.P. SEWERMAIN.	7,840 L.F.
㉒	CONSTRUCT 12" V.C.P. SEWERMAIN.	3,550 L.F.
㉓	CONSTRUCT 8" V.C.P. SEWERMAIN.	80 L.F.
㉔	CONSTRUCT 5' DIAMETER PRECAST CONCRETE MANHOLE PER MMWD STD. DWG. W-1100 AND W-1130.	11 EA.
㉕	CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER MMWD STD. DWG. W-1070 AND W-1100.	34 EA.
㉖	CONSTRUCT SEWER CLEANOUT PER MMWD STD. DWG. W-1090.	1 EA.
㉗	CONNECT TO EXISTING MANHOLE AND CHANNEL FLOW FROM SOUTH TO WEST. DO NOT CHANNEL FOR OUTFLOW NORTH.	0 EA.
㉘	PLUG PROPOSED SEWER STUB WITH CLAY DISK.	4 EA.
㉙	RECHANNEL EXISTING MANHOLE FOR NEW INFLOW AND OUTFLOW. DIRECT FLOW FROM EAST TO THE NORTH.	1 EA.
㉚	CONTRACTOR SHALL EITHER TUNNEL AND INSTALL SEWER OR JACK AND BORE SEWER TO 40' EITHER SIDE OF THE EXISTING FACILITY.	335 L.F.
㉛	CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER MMWD STD. DWG. W-1070 AND W-1100. MODIFY MANHOLE TO BURY TOP 6" BELOW GRADE. ATTACH METAL MANHOLE MARKER TO CHANNEL FENCING TO LOCATE EACH BURIED MANHOLE.	7 EA.
㉜	CONSTRUCT 5' DIAMETER PRECAST CONCRETE MANHOLE PER MMWD STD. DWG. W-1100 AND W-1130. MODIFY MANHOLE TO BURY TOP 6" BELOW GRADE. ATTACH METAL MANHOLE MARKER TO CHANNEL FENCING TO LOCATE EACH BURIED MANHOLE.	8 EA.
㉝	REMOVE AND REPLACE A.C. PAVING IN ACCORDANCE WITH THE REQUIREMENTS PER THE COUNTY AND/OR CITY OF RIVERSIDE ENCROACHMENT PERMITS.	1 L.S.
㉞	CONSTRUCT 18" DUCTILE IRON CLASS 51 SEWERMAIN W/MECHANICAL JOINTS, 40 MIL NOMINAL CERAMIC-EPOXY LINING, PROTECTO 401 OR APPROVED EQUAL.	742 L.F.
㉟	CONSTRUCT SHALLOW MANHOLE PER EMWD STD. DWG. SB-30.	1 EA.
㊱	CONSTRUCT 21" V.C.P. SEWERMAIN.	2,700 L.F.

**QUANTITIES**



**VICINITY MAP**  
N.T.S.

**PORTION OF SECTIONS:**

- 23, T.3S., R.6W.
- 24, T.3S., R.6W.
- 25, T.3S., R.6W.
- 36, T.3S., R.6W.
- 30, T.3S., R.5W.
- 31, T.3S., R.5W.

**GENERAL NOTES FOR SEWER PIPELINES**

- SEWER SYSTEM SHALL BE CONSTRUCTED BY THE DEVELOPER FOR DEDICATION TO WESTERN MUNICIPAL WATER DISTRICT (WESTERN). CONSTRUCTION, MATERIALS, TESTING AND INSPECTION SHALL COMPLY WITH WESTERN'S STANDARDS. THE INSTALLATION SHALL MEET OR EXCEED THE REQUIREMENTS OF THE PUBLIC AGENCY (CITY AND/OR COUNTY) HAVING JURISDICTION. THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREEN BOOK"), AND THE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) STANDARDS. FAILURE TO MEET ANY OF THE ABOVE REQUIREMENTS WILL BE CAUSE FOR REJECTION. SEWER PIPE SHALL BE EXTRA STRENGTH VITRIFIED CLAY PIPE (VCP) UNLESS OTHERWISE APPROVED BY THE MANAGER OF ENGINEERING.
- CONTRACTOR SHALL SHORE ALL TRENCHES AND CONDUCT ALL CONSTRUCTION IN ACCORDANCE WITH CAL-OSHA REQUIREMENTS AND SHALL DETERMINE DEPTH AND LOCATION OF EXISTING UNDERGROUND FACILITIES PRIOR TO TRENCHING. OPEN TRENCH AT ANY ONE TIME SHALL BE LIMITED TO 500' ALONG ROAD RIGHT-OF-WAY AND SHALL BE BACKFILLED AND COMPACTED AT THE CONCLUSION OF EACH DAY (CONTACT UNDERGROUND SERVICE ALERT 1-800-422-4133 PRIOR TO ANY EXCAVATION).
- PIPE SHALL BE HANDLED SO AS TO PROTECT PIPE AT ALL TIMES AND SHALL BE CAREFULLY BEDDED TO PROVIDE CONTINUOUS BEARING AND PREVENT UNEVEN SETTLEMENT. PIPE SHALL BE PROTECTED AGAINST FLOTATION AT ALL TIMES. OPEN ENDS OF INSTALLED SEWER PIPE SHALL BE SEALED AT ALL TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS. INSTALL BEDDING PER MMWD STD. W-1010 CLASS "C" CONDITION MINIMUM.
- PIPE JOINTS SHALL NOT BE DEFLECTED AT ANY ANGLE GREATER THAN THE MAXIMUM ANGLE RECOMMENDED BY THE PIPE MANUFACTURER.
- CONNECTIONS TO EXISTING WESTERN SEWER PIPELINES SHALL NOT BE ACCOMPLISHED UNLESS WESTERN'S INSPECTOR IS PRESENT. WESTERN MAY ELECT TO MAKE THE CONNECTION AT THE EXPENSE OF THE DEVELOPER. CONTRACTOR TO FIELD VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SEWER PIPELINES PRIOR TO CONSTRUCTION.
- BACKFILL SHALL BE COMPACTED TO THE GREATER OF 90% RELATIVE DENSITY EQUIVALENT TO THE SURROUNDING GROUND, OR TO THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION.
- UNLESS WAIVED BY WESTERN, 2" WIDE METALLIC LOCATOR TAPE SHALL BE PLACED WITH SEWERMAIN TO ASSIST WITH FUTURE LOCATION. TAPE SHALL BE PLACED AT LEAST 6" ABOVE THE PIPE BUT NOT DEEPER THAN 4" FROM THE PROPOSED FINISHED GRADE.
- ALL SEWERS SHALL BE BALLED, AIR TESTED AND VIDEO INSPECTED PRIOR TO ACCEPTANCE BY WESTERN.
- SURFACE IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE RECONSTRUCTED BY THE CONTRACTOR TO THE REQUIREMENTS OF THE AGENCY (CITY AND/OR COUNTY) HAVING JURISDICTION.
- THE DEVELOPER SHALL PROVIDE ONE SET OF PRINTS SHOWING ALL "AS-BUILT" CONDITIONS AS A CONDITION OF APPROVAL.
- WESTERN MUST APPROVE ANY REVISIONS TO THESE DRAWINGS IN WRITING.
- THE DEVELOPER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF BACKWATER VALVES, WHERE REQUIRED, PER THE UNIFORM PLUMBING CODE SECTION 405, AND PER WESTERN'S STANDARDS.
- THE CONTRACTOR IS ADVISED THAT THE WORK ON THIS PROJECT MAY INVOLVE WORKING IN A CONFINED AIR SPACE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH "CONFINED AIR SPACE" ARTICLE 108, TITLE 8 CALIFORNIA ADMINISTRATIVE CODE.

**GENERAL NOTES FOR WATER PIPELINES**

- WATER SYSTEM SHALL BE CONSTRUCTED BY THE DEVELOPER FOR DEDICATION TO WESTERN MUNICIPAL WATER DISTRICT (WESTERN). CONSTRUCTION, MATERIALS, TESTING AND INSPECTION SHALL COMPLY WITH WESTERN'S STANDARDS. THE INSTALLATION SHALL MEET OR EXCEED THE REQUIREMENTS OF ALL PUBLIC AGENCIES HAVING JURISDICTION AND THE AMERICAN WATER WORKS ASSOCIATION (A.W.W.A.) STANDARDS. FAILURE TO MEET THESE REQUIREMENTS WILL BE CAUSE FOR REJECTION.
- PIPE, FITTINGS, VALVES AND APPURTENANCES SHALL BE OF THE PIPE PRESSURE (NOT W.M.P. CLASS) SHOWN ON THE PROFILE OF THESE PLANS (NOTE: CAST IRON FITTINGS SHALL NOT BE ALLOWED).
- MINIMUM COVER OVER PIPE SHALL BE 36 INCHES. WHEN THE WATERLINE ENCOUNTERS AN OBSTRUCTION AND CROSSING OVER THE OBSTRUCTION WILL RESULT IN LESS THAN 36" OF COVER OVER THE WATERLINE, THE WATERLINE SHALL CROSS UNDER THE OBSTRUCTION (MIN. 8" CLEARANCE).
- CONTRACTOR SHALL SHORE ALL TRENCHES AND CONDUCT ALL CONSTRUCTION IN ACCORDANCE WITH CAL-OSHA REQUIREMENTS AND SHALL DETERMINE DEPTH AND LOCATION OF EXISTING UNDERGROUND FACILITIES PRIOR TO TRENCHING. OPEN TRENCH AT ANY ONE TIME SHALL BE LIMITED TO 500' ALONG ROAD RIGHT-OF-WAY AND SHALL BE BACKFILLED AND COMPACTED AT THE CONCLUSION OF EACH DAY. BACKFILL SHALL BE COMPACTED TO THE GREATER OF 90% RELATIVE DENSITY EQUIVALENT TO THE SURROUNDING GROUND, OR TO THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION (CONTACT UNDERGROUND SERVICE ALERT 1-800-422-4133 PRIOR TO EXCAVATION).
- PIPE SHALL BE HANDLED SO AS TO PROTECT PIPE AT ALL TIMES AND SHALL BE CAREFULLY BEDDED TO PROVIDE CONTINUOUS BEARING AND TO PREVENT UNEVEN SETTLEMENT. PIPE SHALL BE PROTECTED AGAINST FLOTATION AT ALL TIMES. OPEN ENDS SHALL BE SEALED AT ALL TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS.
- PIPE JOINTS SHALL NOT BE DEFLECTED AT ANY ANGLE GREATER THAN THE MAXIMUM ANGLE RECOMMENDED BY THE PIPE MANUFACTURER. ALL WELD JOINTS SHALL BE MINIMUM DOUBLE PASS.
- TAPS ON PIPELINE SHALL BE INSTALLED PER WESTERN'S STANDARDS AND AS APPROVED IN THE FIELD BY WESTERN'S INSPECTOR. CONTRACTOR TO FIELD VERIFY BOTH HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING WATERLINES PRIOR TO CONSTRUCTION.
- TEST PRESSURE SHALL BE 150% OF PIPE CLASS RATING (I.E.: CLASS 150-225 PSI TEST) SHALL BE UNDER CONTINUOUS INSPECTION, AND SHALL BE IN ACCORDANCE WITH WESTERN'S STANDARDS.
- SURFACE IMPROVEMENTS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE RECONSTRUCTED BY THE CONTRACTOR TO THE REQUIREMENTS OF THE AGENCY HAVING JURISDICTION.
- FIRE HYDRANTS AND AIR VALVES TO BE LOCATED PER AGENCY HAVING JURISDICTION.
- CONTRACTOR SHALL PLACE 14 GA SOLID COPPER LOCATOR WIPE WITH ALL C900 PVC PIPE TO ASSIST WITH FUTURE LOCATION. WIPE SHALL BE PLACED AT LEAST 6" ABOVE THE PIPE BUT NOT DEEPER THAN 4" FROM PROPOSED FINISHED GRADE.
- THE DEVELOPER SHALL PROVIDE ONE SET OF PRINTS SHOWING ALL "AS-BUILT" CONDITIONS AS A CONDITION OF FINAL APPROVAL.
- WESTERN MUST APPROVE ANY REVISION TO THESE DRAWINGS IN WRITING.
- THE CONTRACTOR IS ADVISED THAT THE WORK ON THIS PROJECT MAY INVOLVE WORKING IN A CONFINED SPACE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH "CONFINED AIR SPACE" ARTICLE 108, TITLE 8 CALIFORNIA ADMINISTRATIVE CODE.

**NOTE:**

THE DESIGN AND CONSTRUCTABILITY OF THE PROJECT AS WELL AS THE ACCURACY OF FIGURES ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER. PLAN CHECK SERVICES BY W.M.W.D. WILL BE LIMITED TO THE ADHERENCE OF THE DISTRICT'S STANDARDS, MATERIALS, QUANTITIES AND SIZE OF FACILITIES, AS THEY RELATE TO THE SERVICE DEMANDS OR THE APPROVED MASTER PLAN.

REVIEWED BY THE CITY OF RIVERSIDE PUBLIC WORKS FOR NON-INTERFERENCE COMPLIANCE SHEETS 16 THROUGH 25.

*Thomas J. Boyd*  
THOMAS J. BOYD R.C.E. NO. 36170  
2/19/00  
DATE

C.P. Const. Co., Inc.

PACIFIC BELL TELEPHONE	SOUTHERN CALIFORNIA GAS COMPANY	SOUTHERN CALIFORNIA EDISON	CHARTER COMMUNICATIONS	CITY OF RIVERSIDE PUBLIC UTILITIES WATER	CITY OF RIVERSIDE PUBLIC UTILITIES ELECTRICAL	TURNER COMMUNICATIONS, INC.
APPROVED BY: <i>[Signature]</i> DATE: 12/9/99	APPROVED BY: <i>[Signature]</i> DATE: 1-6-2000	APPROVED BY: _____ DATE: _____	APPROVED BY: <i>[Signature]</i> DATE: 1/6/2000	APPROVED BY: <i>[Signature]</i> DATE: 2/10/00	APPROVED BY: <i>[Signature]</i> DATE: 12-7-99	APPROVED BY: _____ DATE: _____
FOR NON-INTERFERENCE COMPLIANCE	FOR NON-INTERFERENCE COMPLIANCE	FOR NON-INTERFERENCE COMPLIANCE	FOR NON-INTERFERENCE COMPLIANCE	FOR NON-INTERFERENCE COMPLIANCE	FOR NON-INTERFERENCE COMPLIANCE	FOR NON-INTERFERENCE COMPLIANCE

**DIGALERT**  
A PUBLIC SERVICE UNDERGROUND SERVICE ALERT  
TWO WORKING DAYS BEFORE YOU DIG  
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SEAL - ENGINEER  
ALBERT A. WEBB ASSOCIATES  
ENGINEERING CONSULTANTS  
NO. C47800  
EXP. 12-31-2002  
CIVIL  
STATE OF CALIFORNIA

ALBERT A. WEBB ASSOCIATES  
3788 MCCRAY ST.  
RIVERSIDE CA. 92506  
PH. (909) 686-1070  
FAX (909) 788-1256

NOTE:  
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MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
*[Signature]* 2/24/00  
DATE  
BENCH MARK:  
SEE SHEET 2

WESTERN MUNICIPAL WATER DISTRICT  
P.O. BOX 5286  
RIVERSIDE, CA. 92517-5286  
450 ALESSANDRO BLVD  
RIVERSIDE, CA. 92508  
(909) 780-9764 (BUS) (909) 780-3837 (FAX)

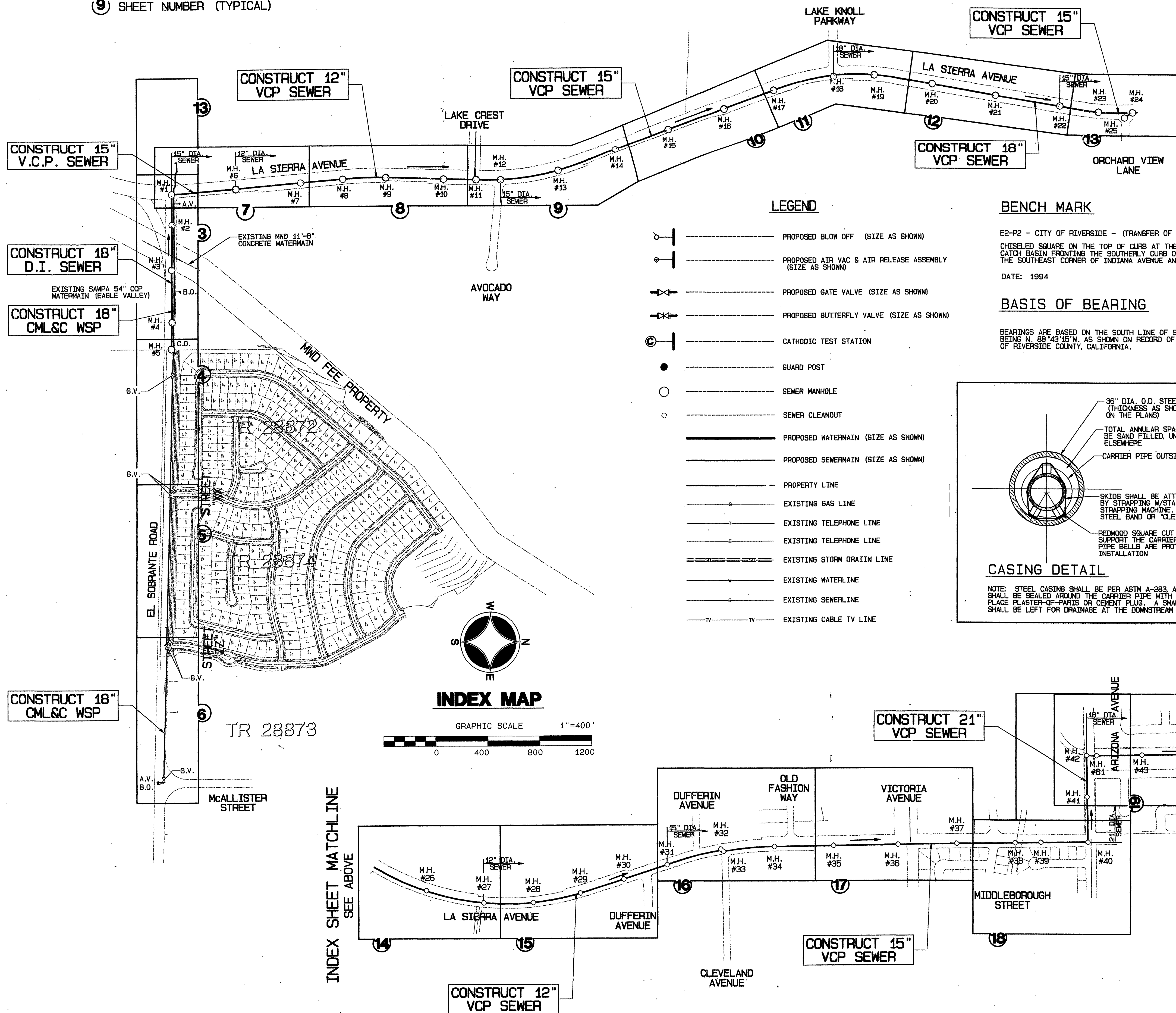
WESTERN MUNICIPAL WATER DISTRICT  
LA SIERRA TRUNK SEWER  
COUNTY OF RIVERSIDE  
TITLE SHEET  
SCALE: HORIZ: VERT:

DRAWING NO. S-1813  
SHEET 1 OF 25 SHEETS

INDEXED 10-01-03 LF

1320-70





SEE BELOW INDEX SHEET MATCHLINE

**NOTIFICATIONS**

- CONTRACTOR SHALL CONTACT THE FOLLOWING AGENCIES AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION:
- WESTERN MUNICIPAL WATER DISTRICT (W.M.W.D.) ATTN: JEFFREY SIMS PHONE: # (909) 780-9764 EXTN. 21
  - RIVERSIDE CO. FLOOD CONTROL AND WATER CONSERVATION DIST. (ROFCNCD) ATTN: ED LOTZ PHONE: # (909) 955-1266
  - RIVERSIDE COUNTY, TRANSPORTATION DEPT. ATTN: PHONE: # (909) 275-6790
  - SC EDISON ATTN: PHONE: # (626) 302-1212
  - THE GAS COMPANY ATTN: PHONE: # (909) 335-7729
  - PACIFIC BELL ATTN: PHONE: # (714) 666-5454
  - METROPOLITAN WATER DISTRICT (M.W.M.D.) ATTN: CHARLES POLING PHONE: # (909) 780-1511 EXTN. 2826
  - CITY OF RIVERSIDE WATER DEPARTMENT ATTN: RICHARD DROBEK PHONE: # (909) 782-5304
  - NORTHERN BURLINGTON & SANTA FE R.R. ATTN: RAILROAD ROADMASTER PHONE: # (909) 386-4060
  - UNDERGROUND SERVICE ALERT (USA) PHONE: # (800) 227-2600

**LEGEND**

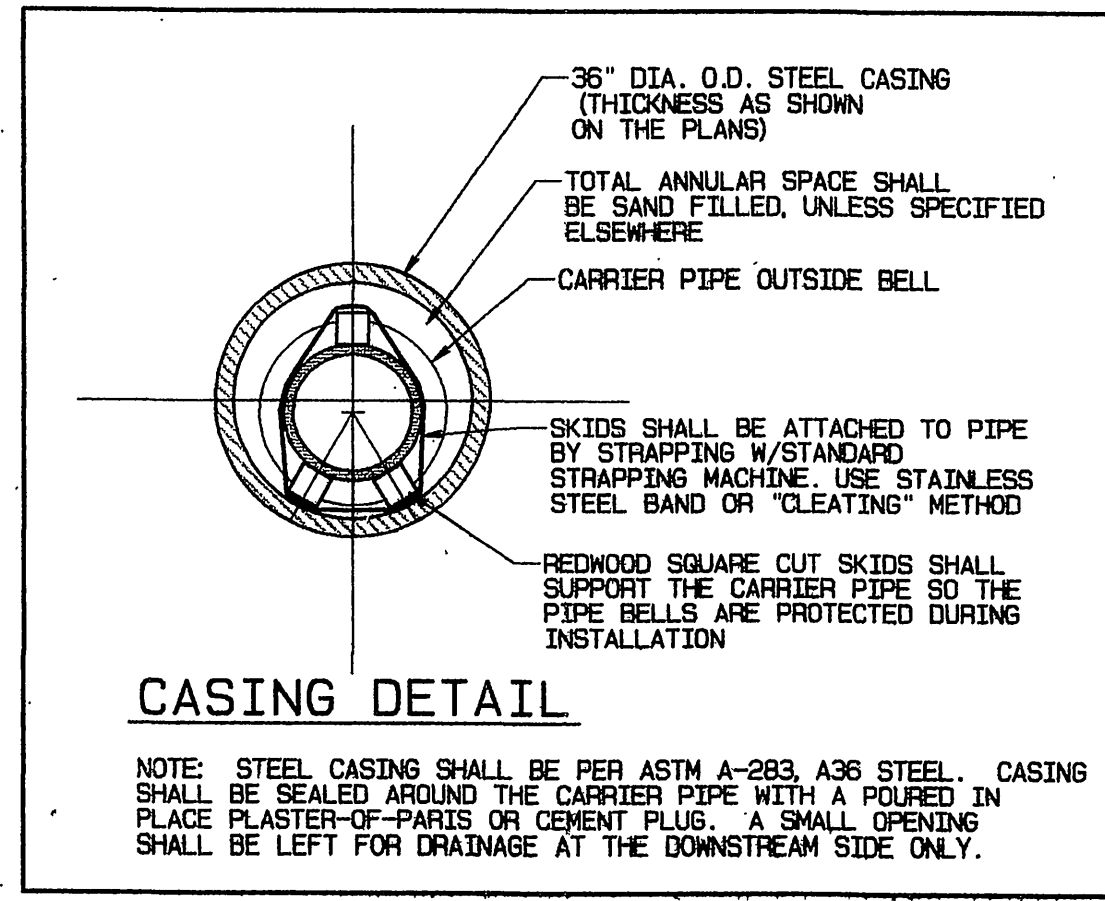
- PROPOSED BLOW OFF (SIZE AS SHOWN)
- PROPOSED AIR VAC & AIR RELEASE ASSEMBLY (SIZE AS SHOWN)
- PROPOSED GATE VALVE (SIZE AS SHOWN)
- PROPOSED BUTTERFLY VALVE (SIZE AS SHOWN)
- CATHODIC TEST STATION
- GUARD POST
- SEWER MANHOLE
- SEWER CLEANOUT
- PROPOSED WATERMAIN (SIZE AS SHOWN)
- PROPOSED SEWERMAIN (SIZE AS SHOWN)
- PROPERTY LINE
- EXISTING GAS LINE
- EXISTING TELEPHONE LINE
- EXISTING STORM DRAIN LINE
- EXISTING WATERLINE
- EXISTING SEWERLINE
- EXISTING CABLE TV LINE

**BENCH MARK**

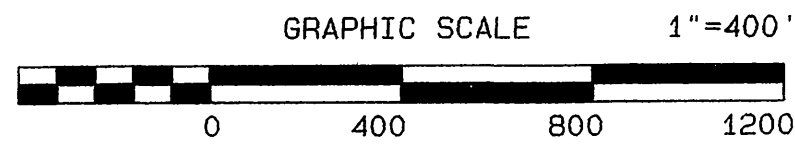
E2-P2 - CITY OF RIVERSIDE - (TRANSFER OF E2-D2)  
 CHISELED SQUARE ON THE TOP OF CURB AT THE WESTERLY END OF A CATCH BASIN FRONTING THE SOUTHERLY CURB OF INDIANA AVENUE AT THE SOUTHEAST CORNER OF INDIANA AVENUE AND FILMORE STREET.  
 DATE: 1994 ELEVATION: 738.410

**BASIS OF BEARING**

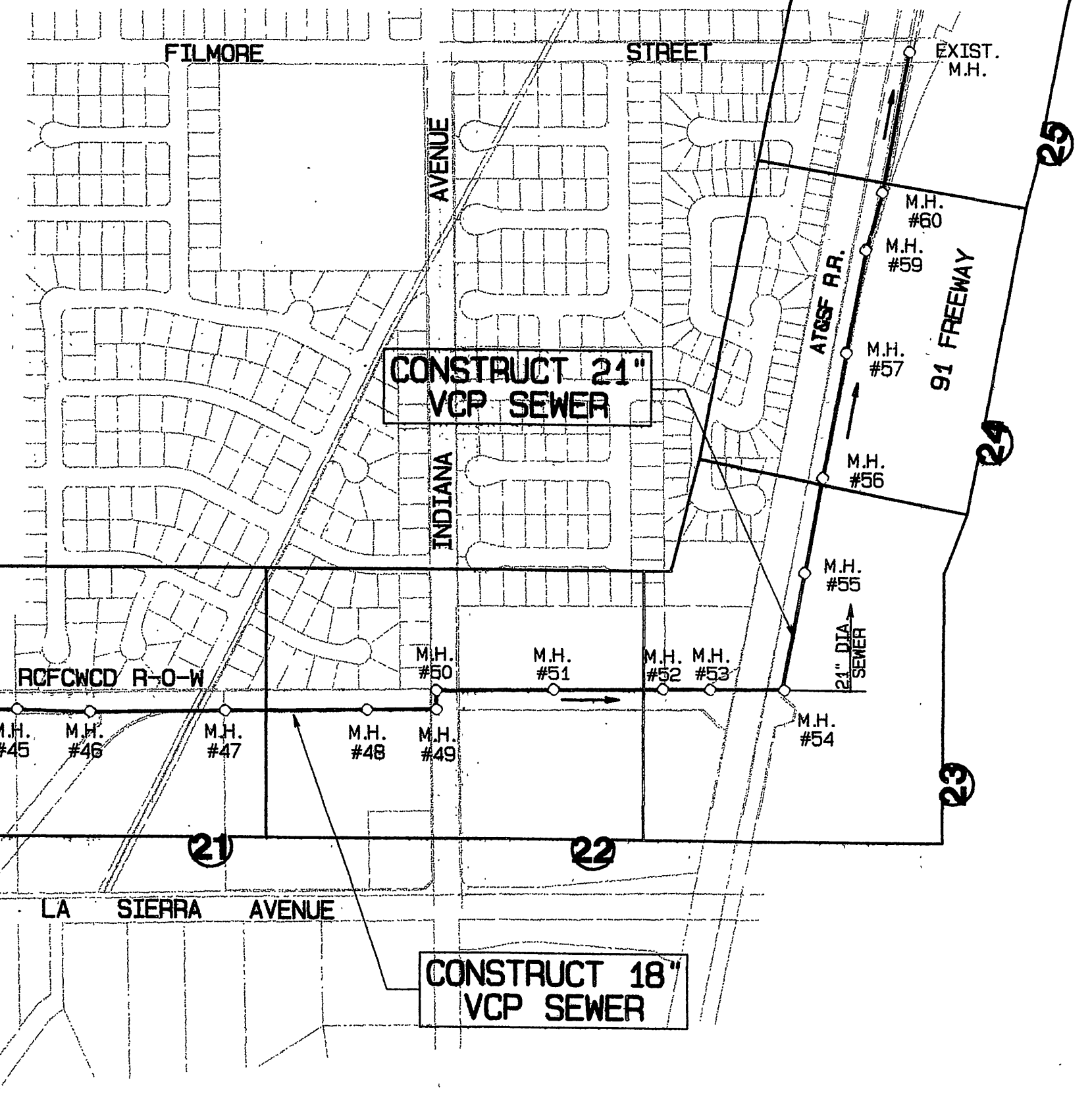
BEARINGS ARE BASED ON THE SOUTH LINE OF SECTION 31 T.35. R.5W. AS BEING N. 88°43'15"W. AS SHOWN ON RECORD OF SURVEY 105/11-15, RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.



**INDEX MAP**



INDEX SHEET MATCHLINE SEE ABOVE



**DIGALERT**

CALL BEFORE YOU DIG

1-800-227-2800

SEAL - ENGINEER

**ALBERT A. WEBB ASSOCIATES**

CIVIL ENGINEERS

3788 MCCRAY ST. RIVERSIDE CA. 92506

PH. (909) 686-1070 FAX (909) 788-1256

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MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:

*[Signature]* 2/24/00

CIVIL ENGINEER E.C.N. 46810 DATE

VOID AFTER ONE YEAR FROM THIS DATE

BENCH MARK:

WESTERN MUNICIPAL WATER DISTRICT

P.O. BOX 5286 RIVERSIDE, CA. 92517-5286

450 ALESSANDRO BLVD RIVERSIDE, CA. 92508

(909) 780-9764 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT

**LA SIERRA TRUNK SEWER**

COUNTY OF RIVERSIDE

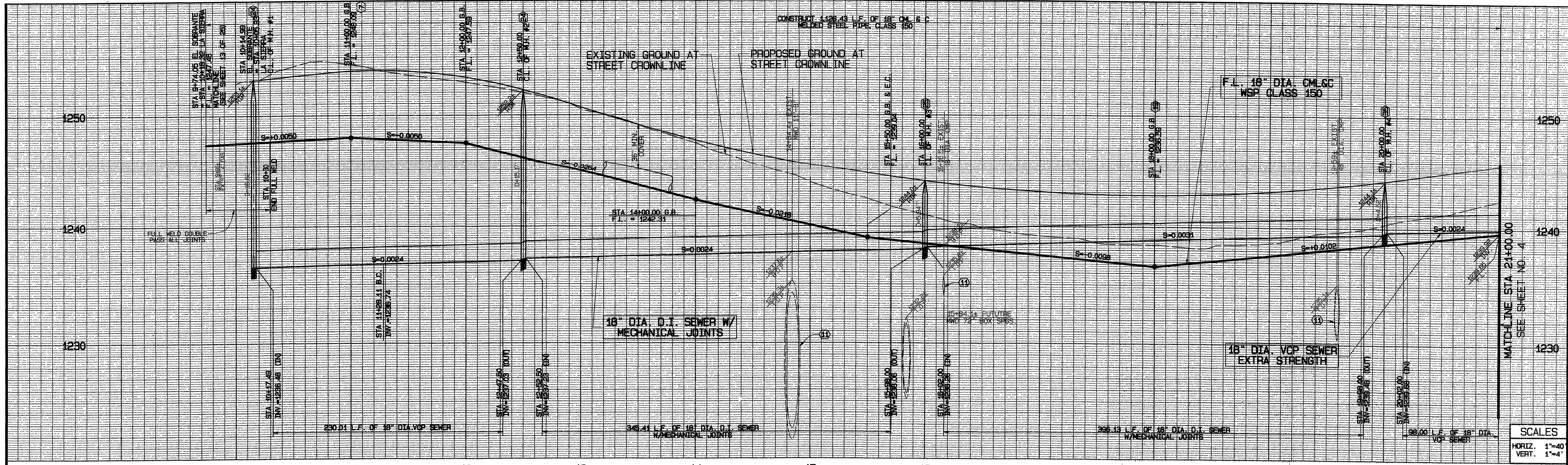
**INDEX SHEET & GENERAL**

SCALE: HORIZ. VERT.

DRAWING NO. **S-1813**

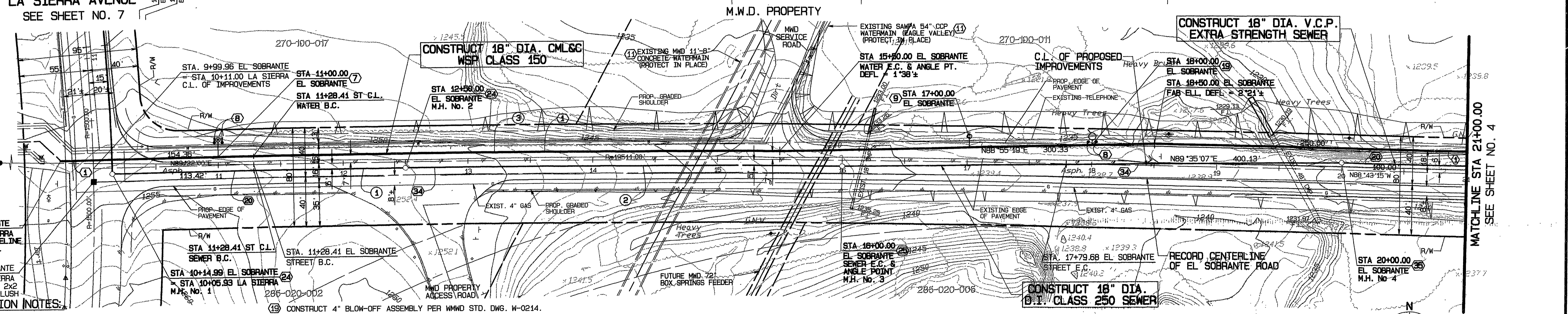
SHEET 2 OF 25 SHEETS





SCALES  
 HORIZ. 1"=40'  
 VERT. 1"=4'

NOTES: 21  
 CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION



STA 9+74.05 EL SOBRANTE  
 = STA 10+18.32 LA SIERRA  
 = STA 9+74.05 18" PIPELINE  
 MATCHLINE (SEE DETAIL SHEET 13 OF 25)

STA 10+00.00 EL SOBRANTE  
 = STA 10+00.00 LA SIERRA  
 C.L. INTERSECTION, FD. 2x2  
 W/RIV. CO. SUR. TAG, FLUSH

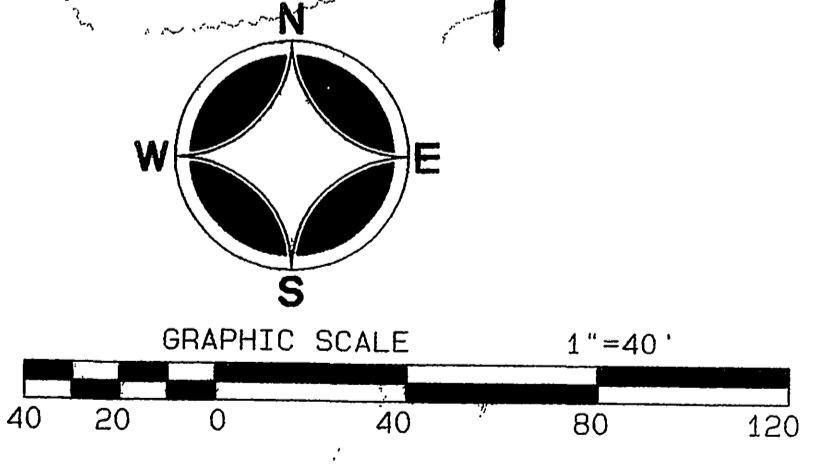
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- (7) CONSTRUCT 2" AIR VACUUM AND AIR RELEASE VALVE ASSEMBLY PER MMWD STD. DWG. W-0470.
- (8) CONSTRUCT 4" GUARD POST PER MMWD STD. DWG. W-1520.
- (9) CONSTRUCT CATHODIC PROTECTION TEST STATION PER MMWD STD. DWG. W-0500.
- (11) PROTECT EXISTING FACILITY IN PLACE.
- (12) REMOVE OR RELOCATE EXISTING FEATURE DURING CONSTRUCTION AND REPLACE UPON COMPLETION.
- (13) REMOVE AND DISPOSE OF EXISTING FACILITY.

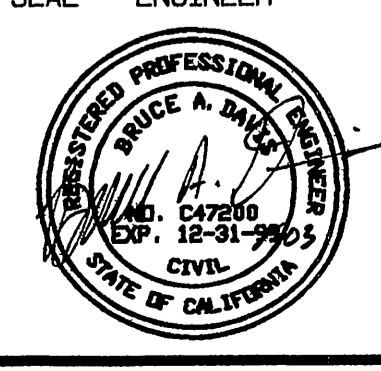
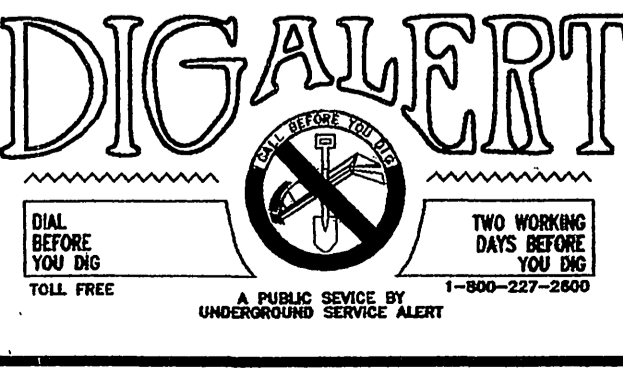
**SEWER CONSTRUCTION NOTES:**

- (19) CONSTRUCT 4" BLOW-OFF ASSEMBLY PER MMWD STD. DWG. W-0214.
- (20) CONSTRUCT 18" V.C.P. SEWERMAIN.
- (24) CONSTRUCT 5' DIAMETER PRECAST CONCRETE MANHOLE PER MMWD STD. DWG. W-1070 AND W-1100.
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- (35) CONSTRUCT SHALLOW MANHOLE PER MMWD STD. DWG. SB-30.

WATER & SEWER CURVE DATA				
NO.	Δ	R	L	T
①	00°21'25"	19506.00'	121.56'	60.78'
②	01°01'40"	19506.00'	349.91'	174.96'
③	01°14'17"	19518.00'	421.74'	210.88'



**EL SOBRANTE ROAD**



**ALBERT A. WEBB**  
 ASSOCIATES  
 ENGINEERING CONSULTANTS

**CIVIL ENGINEERS**  
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 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

NOTE:  
 THE DESIGN AND CONSTRUCTION OF THIS PROJECT AS WELL AS THE ACCEPTANCE OF MATERIALS AND THE RESPONSIBILITY OF THE DESIGN ENGINEER. PLAN CHECK SERVICES BY W.M.W.D. WILL BE LIMITED TO THE AGREEMENT OF THE DISTRICT ENGINEER, MATERIALS, QUANTITIES AND USE OF FACILITIES AS THEY RELATE TO THE SERVICE DEMANDS OR APPROVED MASTER PLAN. SURVEYS OF WATER TO THE IMPROVED AND EXISTING ON THESE PLANS IS DEPENDENT UPON COMPLETION OF THE PUBLIC PROPOSED AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
 DATE: 2/24/00  
 VOID AFTER ONE YEAR FROM THIS DATE  
 BENCH MARK:  
 SEE SHEET 2

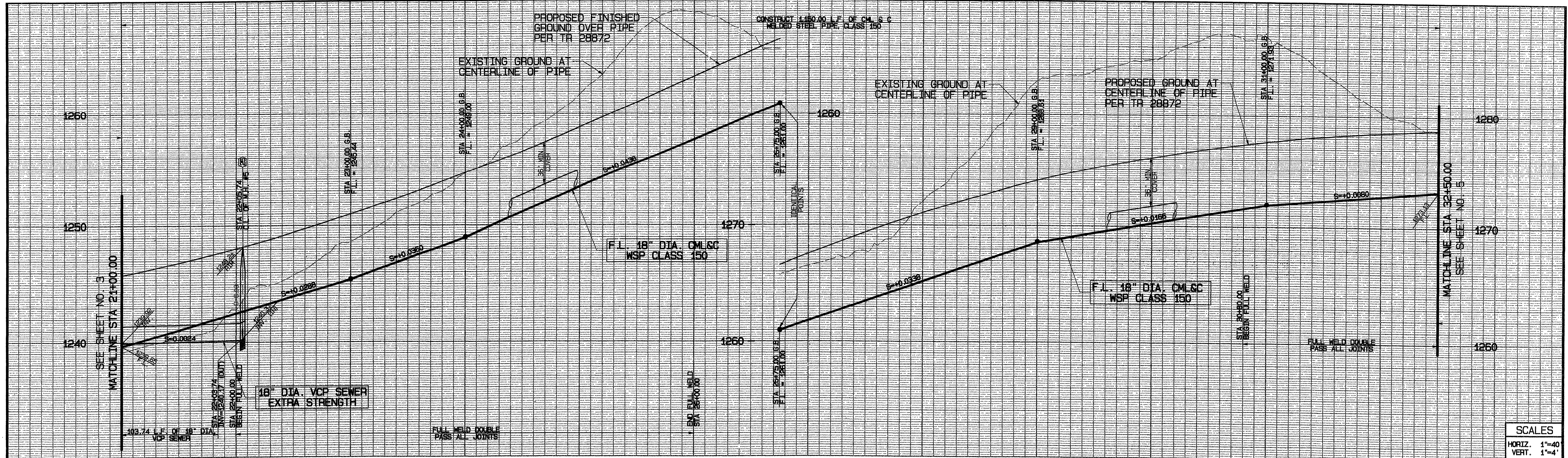
WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9764 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 EL SOBRANTE ROAD  
 STA 9+74.05 TO STA 21+00.00  
 SCALE: HORIZ: 1" = 40' VERT: 1" = 4'

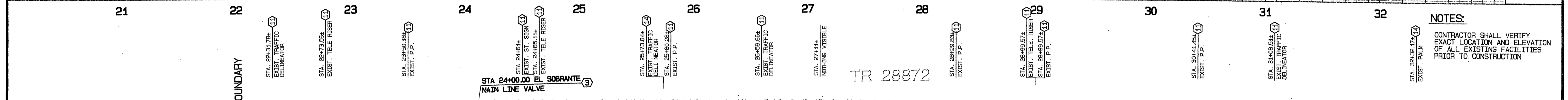
DRAWING NO. **S-1813**  
 SHEET 3 OF 25 SHEETS

INDEXED 10-01-03 (H)

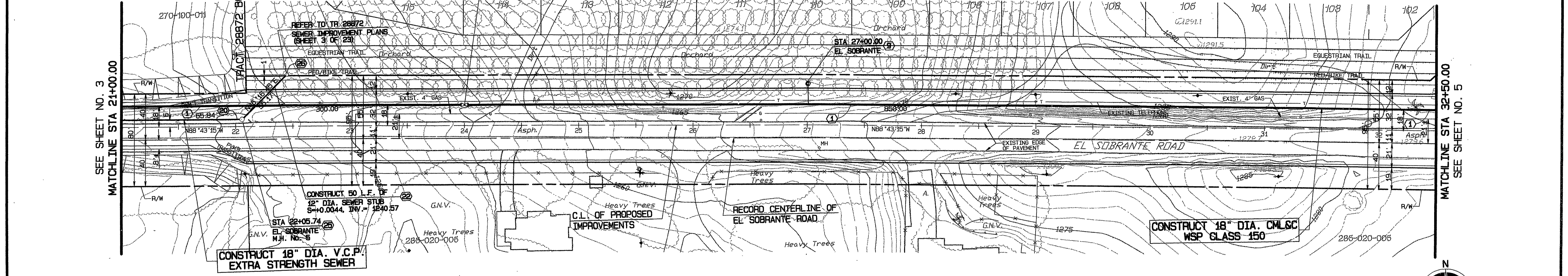




**SCALES**  
 HORIZ. 1"=40'  
 VERT. 1"=4'



**NOTES:**  
 CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION



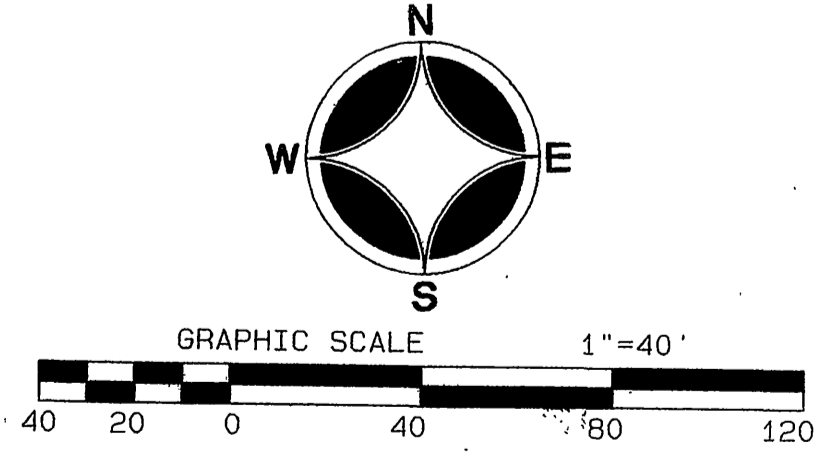
**WATER CONSTRUCTION NOTES:**

- ① CONSTRUCT 18" CEMENT MORTAR LINED AND COATED CLASS 150 (12 GA) WELDED STEEL WATERMAIN AND APPURTENANCES PER MMWD STD. DWG. W-0350.
- ③ INSTALL 18" FLANGED BUTTERFLY VALVE ASSEMBLY PER MMWD STD. DWG. W-0670.
- ⑨ CONSTRUCT CATHODIC PROTECTION TEST STATION PER MMWD STD. DWG. W-0500.
- ⑪ PROTECT EXISTING FACILITY IN PLACE.
- ⑭ TO BE REMOVED AND/OR RELOCATED BY OTHERS.

**SEWER CONSTRUCTION NOTES:**

- ②⑥ CONSTRUCT 18" V.C.P. SEWERMAIN.
- ②⑦ CONSTRUCT 12" V.C.P. SEWERMAIN.
- ②⑧ CONSTRUCT 4" DIAMETER PRECAST CONCRETE MANHOLE PER MMWD STD. DWG. W-1070 AND W-1100.
- ②⑨ CONSTRUCT SEWER CLEANOUT PER MMWD STD. DWG. W-1090.

**EL SOBRANTE ROAD**



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 TOLL FREE 1-800-227-2800

SEAL - ENGINEER  
  
**ALBERT A. WEBB**  
 ASSOCIATES  
 ENGINEERING CONSULTANTS

**CIVIL ENGINEERS**  
 3788 McCRAY ST.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

**NOTE:**  
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MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
  
 CIVIL ENGINEER S.C.E. 42212 DATE 2/24/00  
 VOID AFTER ONE YEAR FROM THIS DATE  
 BENCH MARK:  
 SEE SHEET 2

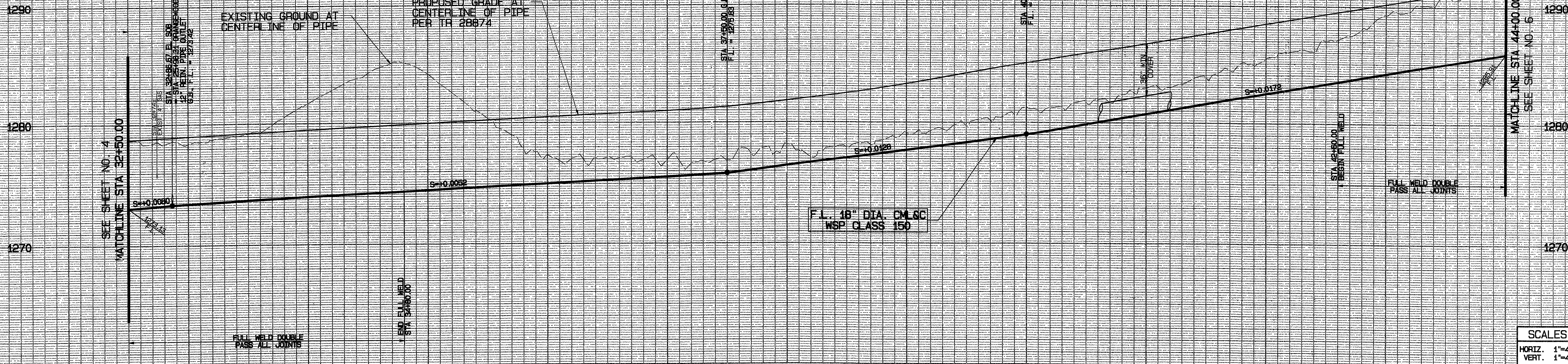
WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9764 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 EL SOBRANTE ROAD  
 STA 21+00.00 TO STA 32+50.00  
 SCALE: HORIZ. 1" = 40' VERT. 1" = 4'

DRAWING NO. **S-1813**  
 SHEET 4 OF 25 SHEETS

INDEXED 10-01-03





SCALES  
 HORIZ. 1"=40'  
 VERT. 1"=4'

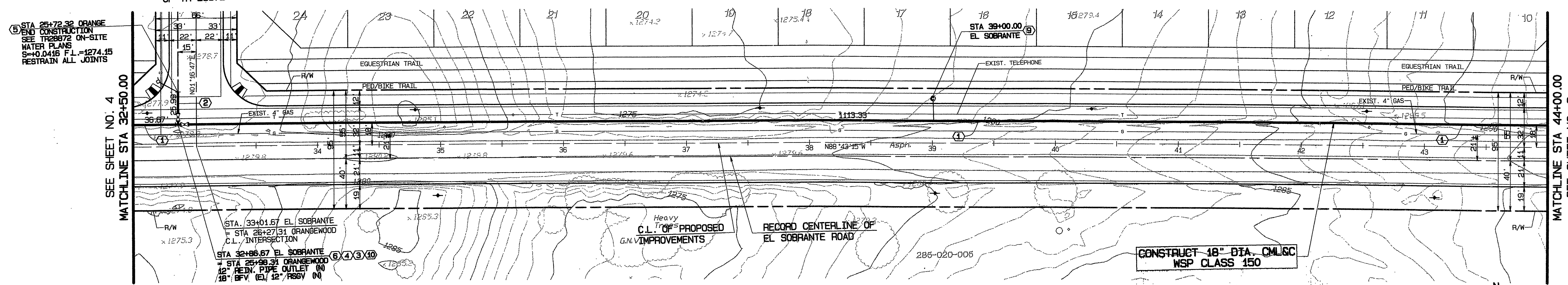
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ORANGEWOOD LANE  
 SEE SHEET 6 OF TR 28872

TR 28874

EL SOBRANTE

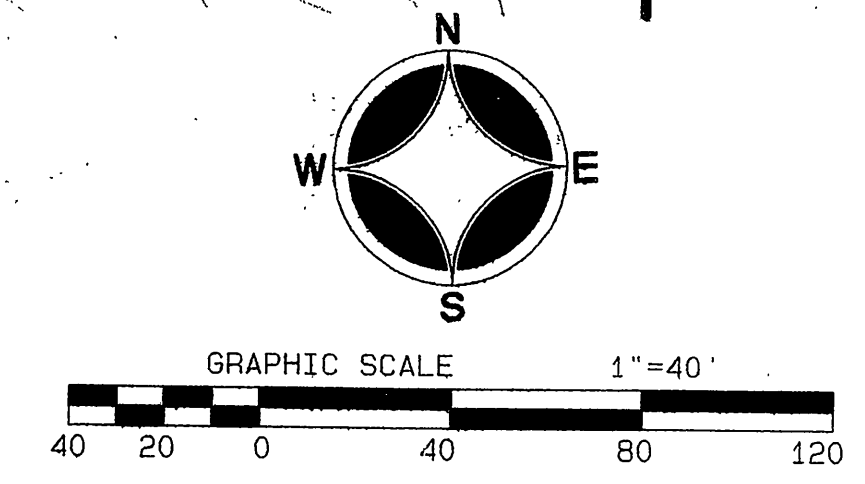
NOTES:  
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**WATER CONSTRUCTION NOTES:**

- ① CONSTRUCT 18" CEMENT MORTAR LINED AND COATED CLASS 150 (12 GA) WELDED STEEL WATERMAIN AND APPURTENANCES PER WMD STD. DWG. W-0350.
- ② CONSTRUCT 12" P.V.C., CLASS 150 C-900 WATERMAIN.
- ③ INSTALL 18" FLANGED BUTTERFLY VALVE ASSEMBLY PER WMD STD. DWG. W-0670.
- ④ INSTALL 12" FLANGED x HUB RESILIENT SEAT GATE VALVE PER WMD STD. DWG. W-0150.
- ⑤ CONSTRUCT 3" TEMPORARY END OF LINE BLOW-OFF ASSEMBLY PER WMD STD. DWG. W-0205.
- ⑥ CONSTRUCT 12" REINFORCED PIPE OUTLET PER WMD STD. DWG. W-0140.
- ⑦ CONSTRUCT CATHODIC PROTECTION TEST STATION PER WMD STD. DWG. W-0500.
- ⑧ INSTALL FLANGE COUPLING ADAPTOR (SIZE PER PLANS).
- ⑨ PROTECT EXISTING FACILITY IN PLACE.
- ⑩ REMOVE OR RELOCATE EXISTING FEATURE DURING CONSTRUCTION AND REPLACE UPON COMPLETION.
- ⑪ TO BE REMOVED AND/OR RELOCATED BY OTHERS.

**EL SOBRANTE ROAD**



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 CIVIL ENGINEERS  
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 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

NOTE:  
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MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:

WESTERN MUNICIPAL WATER DISTRICT

SEE SHEET 2

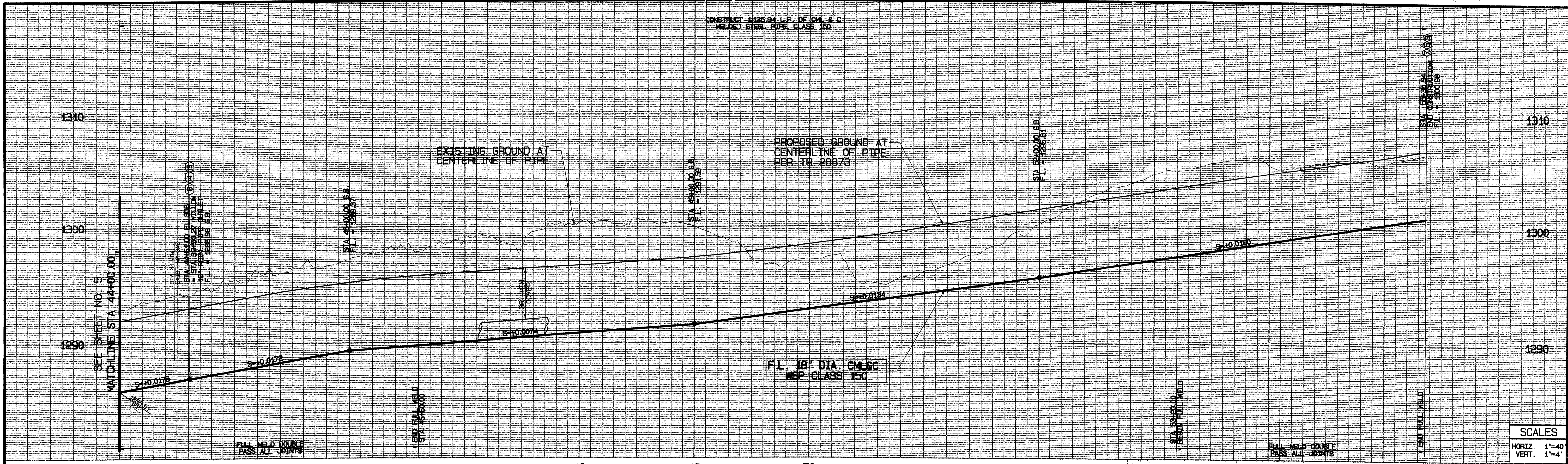
WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9764 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 EL SOBRANTE ROAD  
 STA 32+50.00 TO STA 44+00.00  
 SCALE: HORIZ. 1" = 40' VERT. 1" = 4'

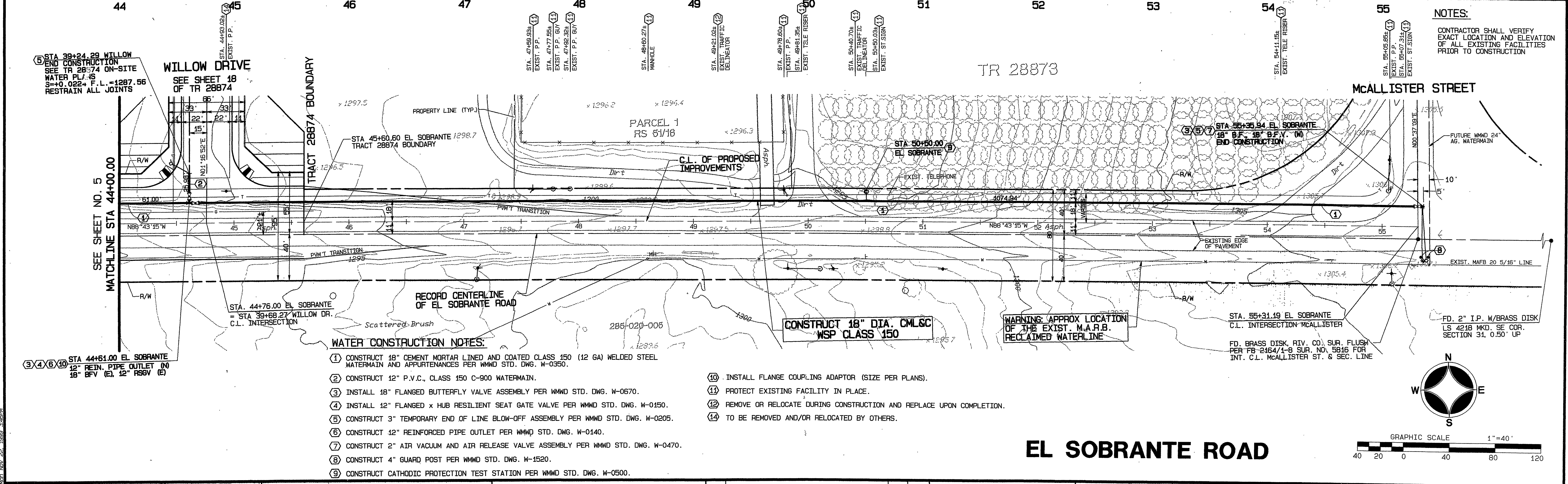
DRAWING NO. **S-1813**  
 SHEET 5 OF 25 SHEETS

INDEXED 10-01-03 JH





SCALES  
 HORIZ. 1"=40'  
 VERT. 1"=4'

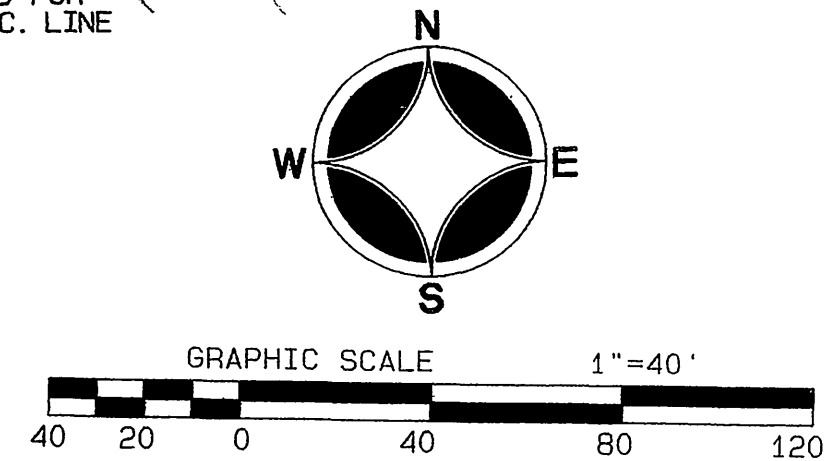


NOTES:  
 CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION

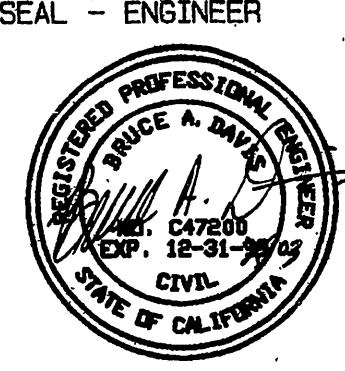
**WATER CONSTRUCTION NOTES:**

- (1) CONSTRUCT 18" CEMENT MORTAR LINED AND COATED CLASS 150 (12 GA) WELDED STEEL WATERMAIN AND APPURTENANCES PER MMWD STD. DWG. W-0350.
- (2) CONSTRUCT 12" P.V.C., CLASS 150 C-900 WATERMAIN.
- (3) INSTALL 18" FLANGED BUTTERFLY VALVE ASSEMBLY PER MMWD STD. DWG. W-0670.
- (4) INSTALL 12" FLANGED x HUB RESILIENT SEAT GATE VALVE PER MMWD STD. DWG. W-0150.
- (5) CONSTRUCT 3" TEMPORARY END OF LINE BLOW-OFF ASSEMBLY PER MMWD STD. DWG. W-0205.
- (6) CONSTRUCT 12" REINFORCED PIPE OUTLET PER MMWD STD. DWG. W-0140.
- (7) CONSTRUCT 2" AIR VACUUM AND AIR RELEASE VALVE ASSEMBLY PER MMWD STD. DWG. W-0470.
- (8) CONSTRUCT 4" GUARD POST PER MMWD STD. DWG. W-1520.
- (9) CONSTRUCT CATHODIC PROTECTION TEST STATION PER MMWD STD. DWG. W-0500.
- (10) INSTALL FLANGE COUPLING ADAPTOR (SIZE PER PLANS).
- (11) PROTECT EXISTING FACILITY IN PLACE.
- (12) REMOVE OR RELOCATE DURING CONSTRUCTION AND REPLACE UPON COMPLETION.
- (13) TO BE REMOVED AND/OR RELOCATED BY OTHERS.

**EL SOBRANTE ROAD**



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**ALBERT A. WEBB ASSOCIATES**  
 ENGINEERING CONSULTANTS  
 3788 McCRAY ST.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

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MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
 CIVIL ENGINEER E.C.L. 44612 DATE 2/24/00  
 YOU AFTER ONE YEAR FROM THIS DATE  
 BENCH MARK:  
 SEE SHEET 2

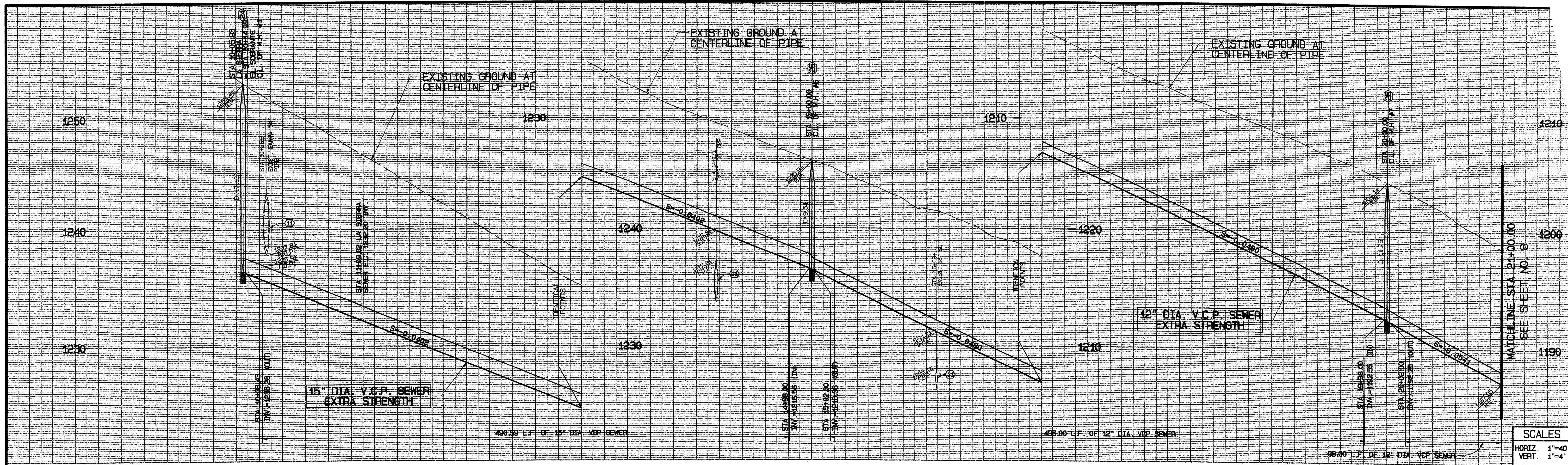
WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9764 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 EL SOBRANTE ROAD  
 STA. 44+00.00 TO STA. 55+35.94  
 SCALE: HORIZ: 1"=40' VERT: 1"=4'

DRAWING NO. **S-1813**  
 SHEET 6 OF 25 SHEETS

INDEXED 10-01-03 LFH





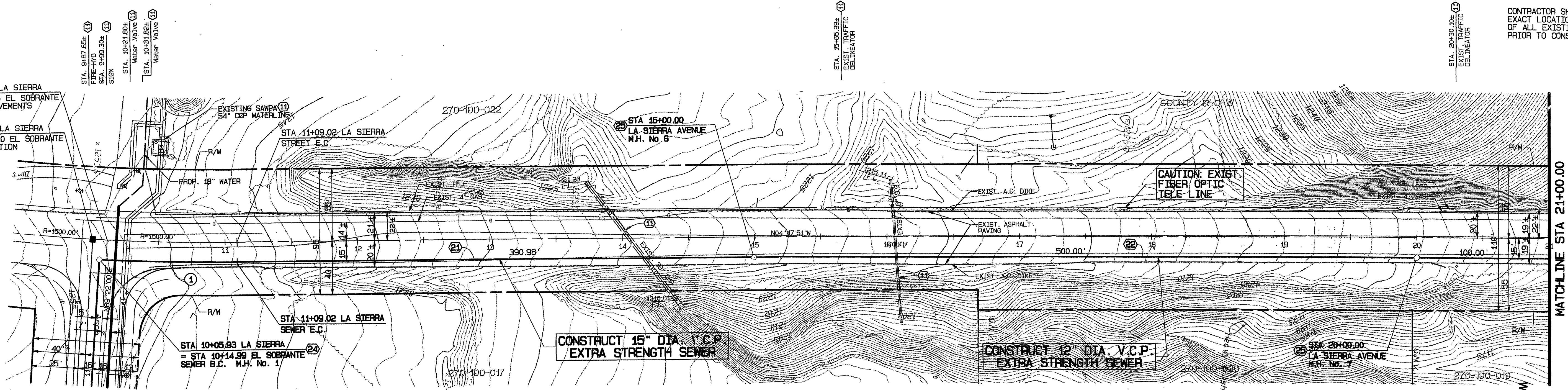
**SCALES**

HORIZ. 1"=40'

VERT. 1"=4'

**NOTES:**

CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION



STA 10+11.00 LA SIERRA  
= STA 9+99.96 EL SOBRANTE  
C.L. OF IMPROVEMENTS

STA 10+00.00 LA SIERRA  
= STA 10+00.00 EL SOBRANTE  
C.L. INTERSECTION

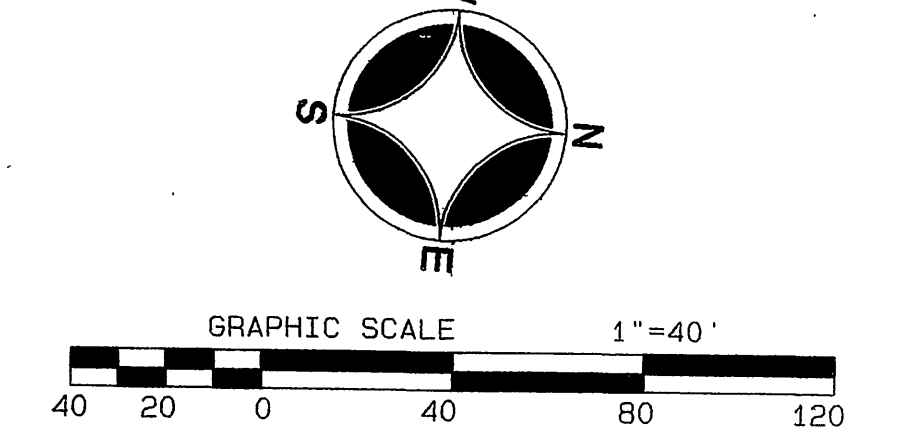
EL SOBRANTE ROAD  
SEE SHEET NO. 3

- SEWER CONSTRUCTION NOTES:**
- (1) PROTECT EXISTING FACILITY IN PLACE.
  - (2) CONSTRUCT 15" V.C.P. SEWERMAIN.
  - (3) CONSTRUCT 12" V.C.P. SEWERMAIN.
  - (4) CONSTRUCT 5' DIAMETER PRECAST CONCRETE MANHOLE PER W/MWD STD. DWG. W-1070 AND W-1100.
  - (5) CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER W/MWD STD. DWG. W-1070 AND W-1100.

**LA SIERRA AVENUE**

**SEWERLINE CURVE DATA**

NO.	Δ	R	L	T
1	03°56'15"	1515.00	104.11'	52.08'



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SEAL - ENGINEER

**ALBERT A. WEBB ASSOCIATES**

CIVIL ENGINEERS

3788 McCRAY ST.  
RIVERSIDE CA. 92506

PH. (909) 686-1070  
FAX (909) 788-1256

**NOTE:**

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MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:

*[Signature]*

DATE: 10/03/03

BENCH MARK: SEE SHEET 2

WESTERN MUNICIPAL WATER DISTRICT

P.O. BOX 5286  
RIVERSIDE, CA. 92517-5286

450 ALESSANDRO BLVD  
RIVERSIDE, CA. 92508

(909) 780-9764 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT

**LA SIERRA TRUNK SEWER**

COUNTY OF RIVERSIDE

LA SIERRA AVENUE  
STA 10+05.93 TO STA 21+00.00

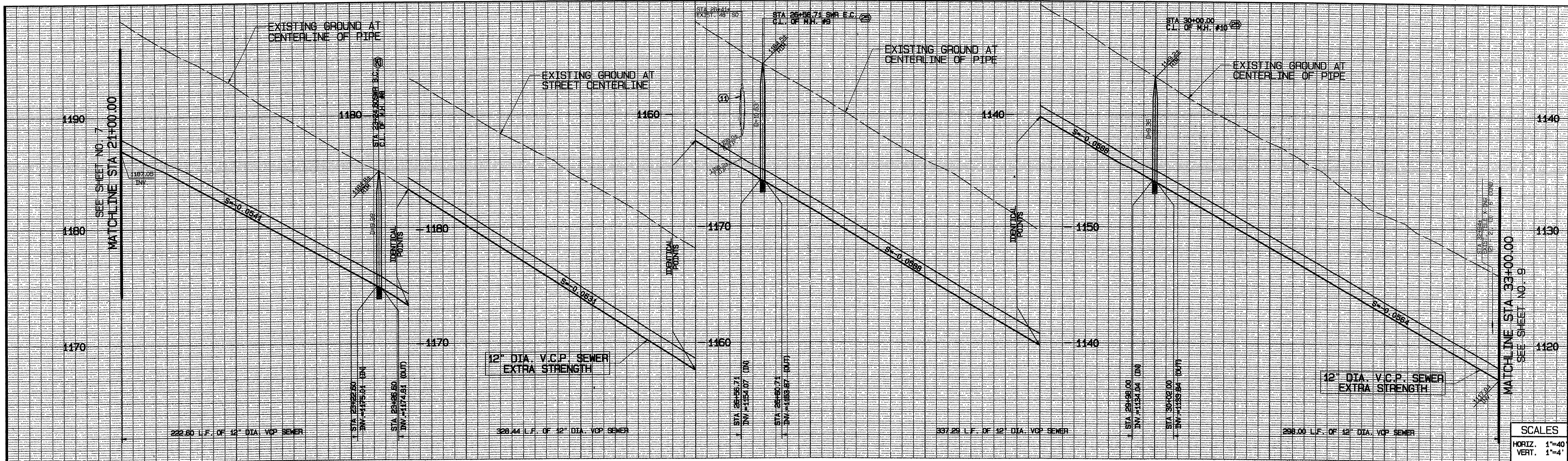
SCALE: HORIZ: 1" = 40' VERT: 1" = 4'

DRAWING NO. **S-1813**

SHEET 7 OF 25 SHEETS

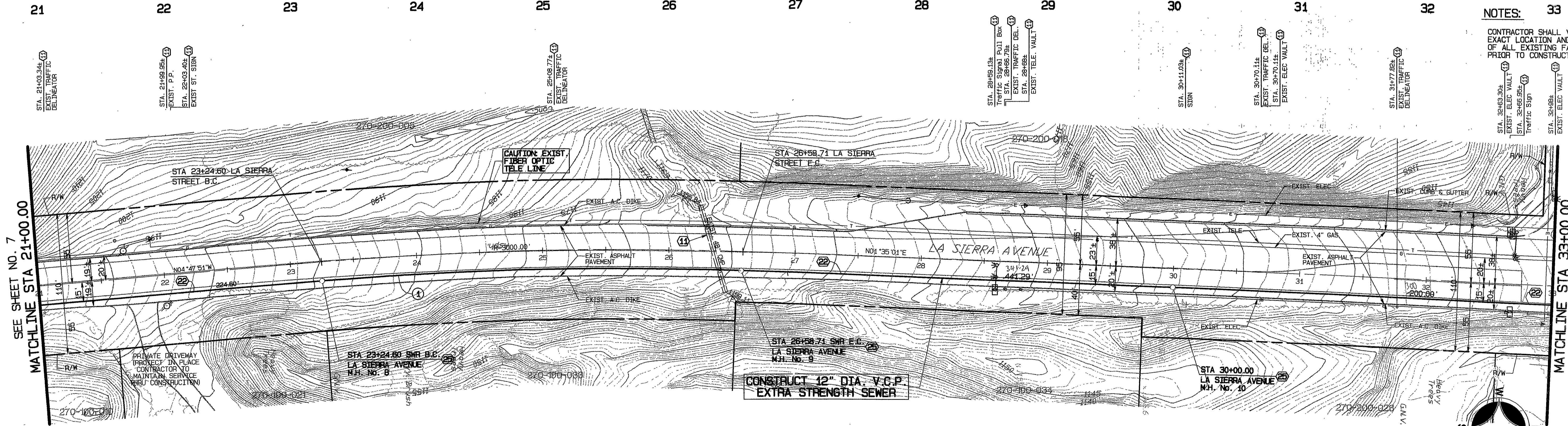
INDEXED 10-01-03 Lft





SCALES  
 HORIZ. 1"=40'  
 VERT. 1"=4'

- NOTES:
- CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION
  - ① EXIST. TRAFFIC DEL. SIGN
  - ② EXIST. TRAFFIC DEL. SIGN
  - ③ EXIST. TRAFFIC DEL. SIGN
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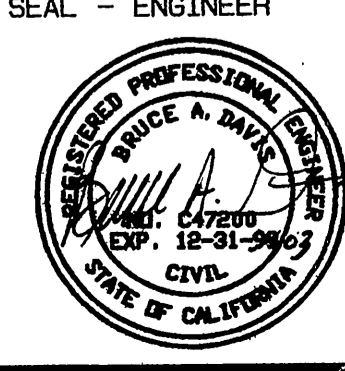
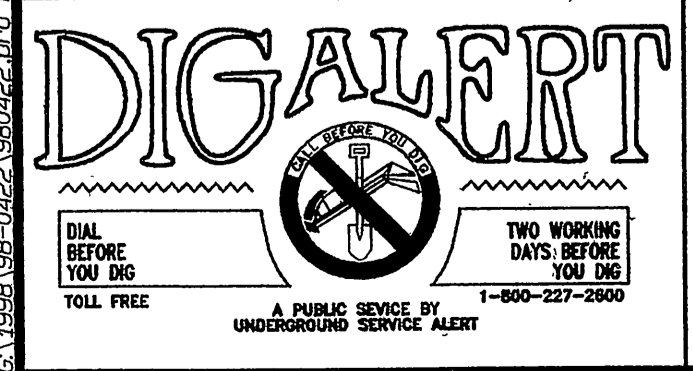
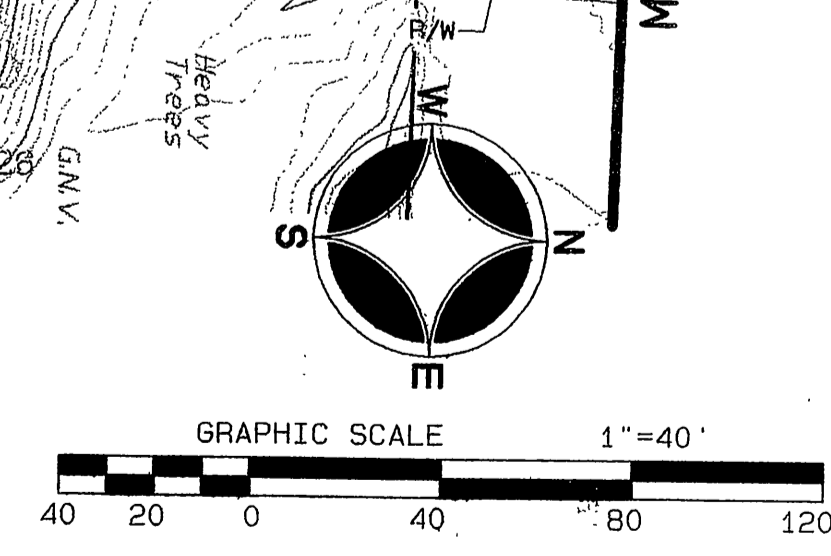
SEWER CONSTRUCTION NOTES:

- ① PROTECT EXISTING FACILITY IN PLACE.
- ② CONSTRUCT 12" V.C.P. SEWERMAIN.
- ③ CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER MWMD STD. DWG. W-1070 AND W-1100.

LA SIERRA AVENUE

SEWERLINE CURVE DATA

NO.	Δ	R	L	T
①	06°22'52"	2985.00'	332.44'	166.39'



ALBERT A. WEBB  
 ASSOCIATES  
 ENGINEERING CONSULTANTS  
 CIVIL ENGINEERS  
 3788 McCRAY ST.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

NOTE:  
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MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
 [Signature]  
 CIVIL ENGINEER, No. 46812 DATE 1/24/03  
 VALID AFTER ONE YEAR FROM THIS DATE  
 BENCH MARK:  
 SEE SHEET 2

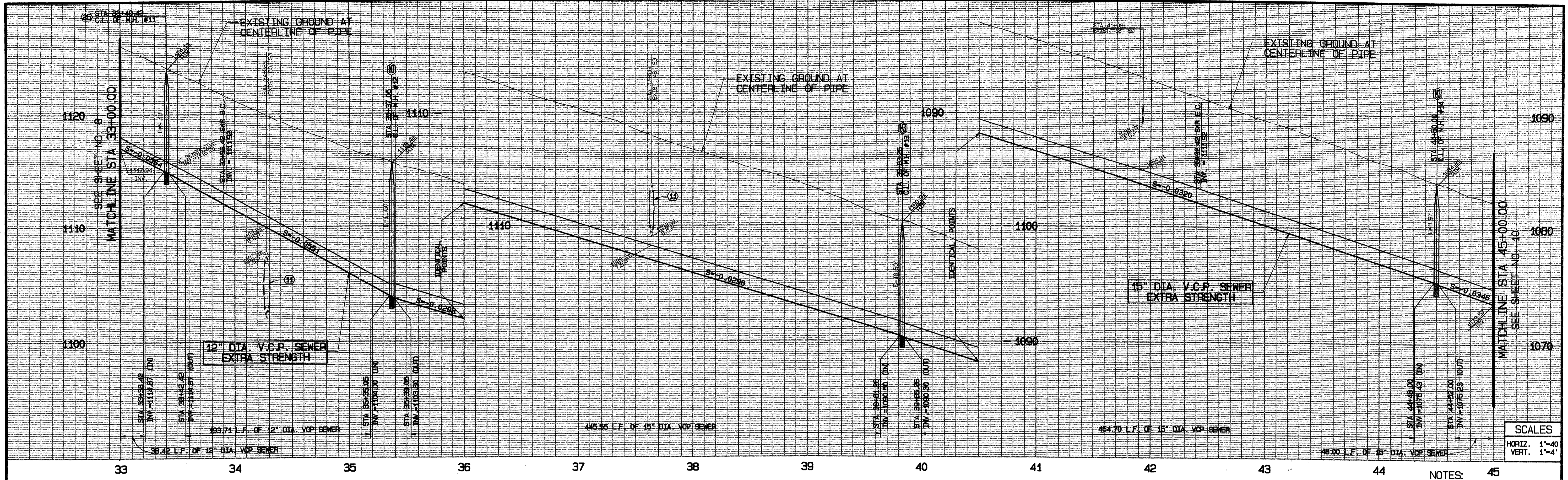
WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9764 (BUS) (909) 780-3887 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
 LA SIERRA TRUNK SEWER  
 COUNTY OF RIVERSIDE  
 LA SIERRA AVENUE  
 STA 21+00.00 TO STA 33+00.00  
 SCALE: HORIZ. 1" = 40' VERT. 1" = 4'

DRAWING NO. S-1813  
 SHEET 8 OF 25 SHEETS

INDEXED 10-01-03 LFT





**SCALES**

HORIZ. 1"=40'

VERT. 1"=4'

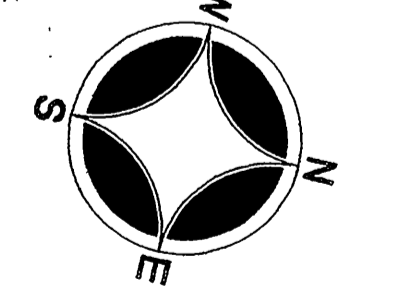
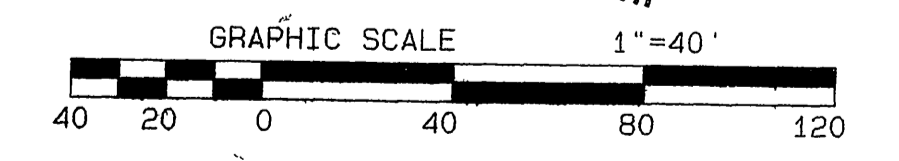
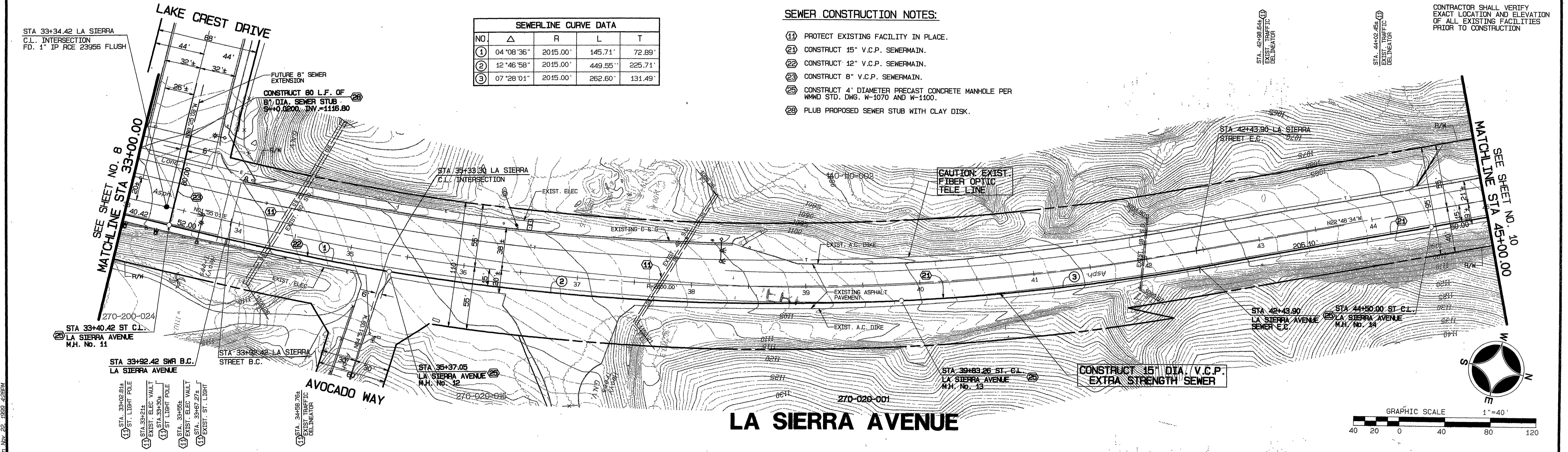
**SEWERLINE CURVE DATA**

NO.	Δ	R	L	T
①	04°08'36"	2015.00'	145.71'	72.89'
②	12°46'58"	2015.00'	449.55'	225.71'
③	07°28'01"	2015.00'	262.60'	131.49'

**SEWER CONSTRUCTION NOTES:**

- ① PROTECT EXISTING FACILITY IN PLACE.
- ② CONSTRUCT 15" V.C.P. SEWERMAIN.
- ③ CONSTRUCT 12" V.C.P. SEWERMAIN.
- ④ CONSTRUCT 8" V.C.P. SEWERMAIN.
- ⑤ CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER MWD STD. DWS. W-1070 AND W-1100.
- ⑥ PLUS PROPOSED SEWER STUB WITH CLAY DISK.

CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION



**DIGALERT**

1-800-257-2800

A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

SEAL - ENGINEER

**ALBERT A. WEBB ASSOCIATES**

CIVIL ENGINEERS

3788 McCRAY ST. RIVERSIDE CA. 92506

PH. (909) 686-1070 FAX (909) 788-1256

**NOTE:**

THE DESIGN AND CONSTRUCTION OF THIS PROJECT AS WELL AS THE ACCURACY OF FIGURES AND THE RESPONSIBILITY OF THE DESIGN ENGINEER, SHALL BE LIMITED TO THE AGREEMENT OF THE CLIENT. THE DESIGNER'S LIABILITY IS LIMITED TO THE SERVICE RENDERED OR APPROVED HEREIN. THE LIABILITY OF WATER TO THE DEPARTMENT OF WATER RESOURCES IS DEPENDENT UPON COMPLETION OF THE PIPING PROPOSED AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:

*[Signature]* 2/24/03

CIVIL ENGINEER LICENSE 46812 DATE

VOID AFTER ONE YEAR FROM THIS DATE

BENCH MARK: SEE SHEET 2

WESTERN MUNICIPAL WATER DISTRICT

P.O. BOX 5286 RIVERSIDE, CA. 92517-5286

450 ALESSANDRO BLVD RIVERSIDE, CA. 92508

(909) 780-9764 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT

**LA SIERRA TRUNK SEWER**

COUNTY OF RIVERSIDE

LA SIERRA AVENUE

STA 33+00.00 TO STA 45+00.00

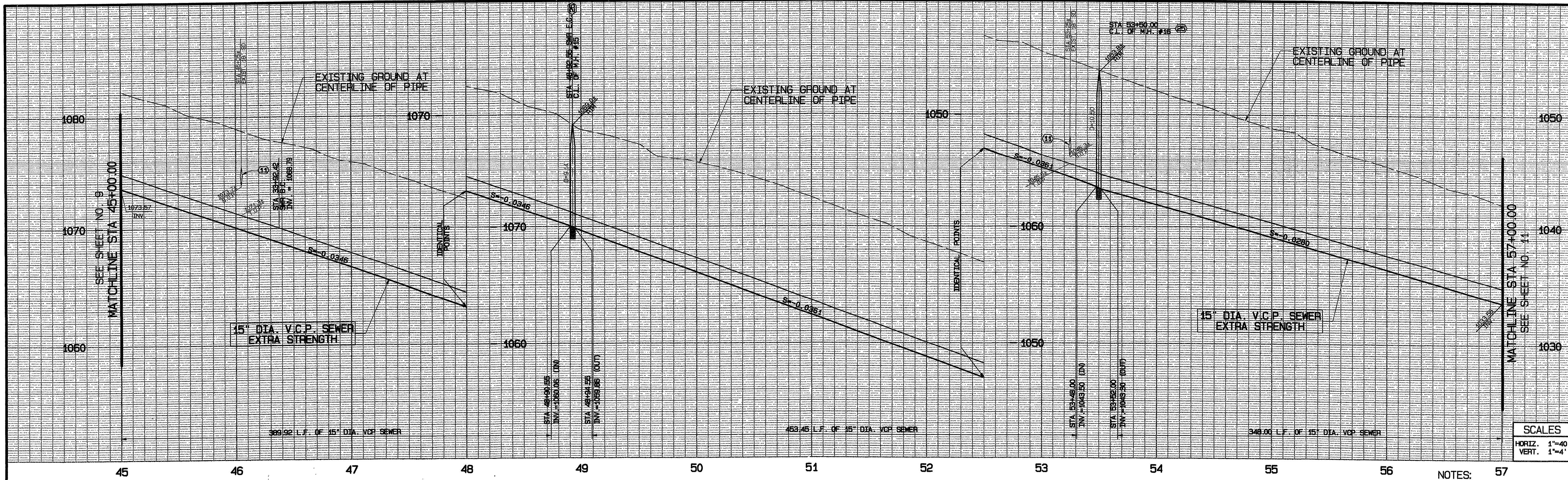
SCALE: HORIZ. 1"=40' VERT. 1"=4'

DRAWING NO. **S-1813**

SHEET 9 OF 25 SHEETS

INDEXED 10-01-03 LHM





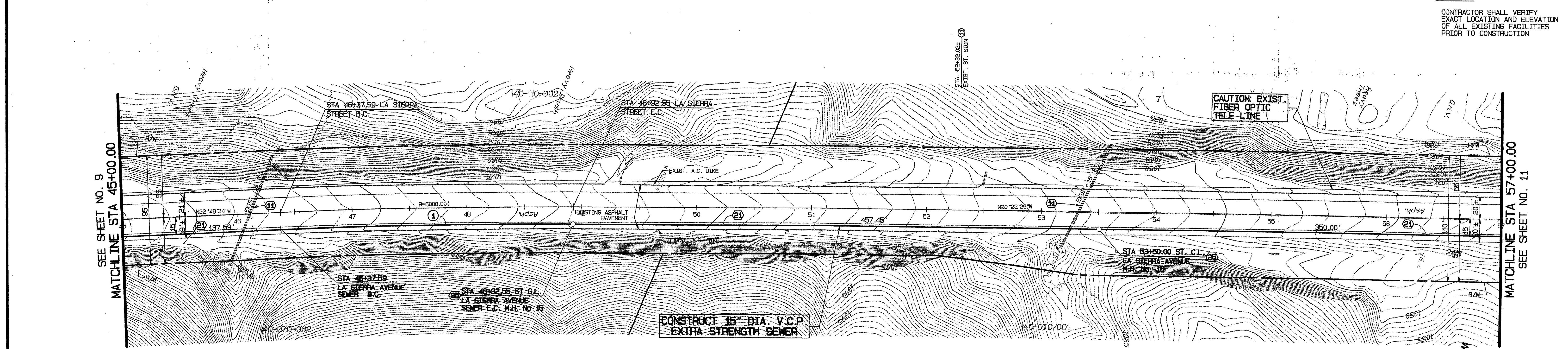
**SCALES**

HORIZ. 1"=40'

VERT. 1"=4'

**NOTES:**

CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION

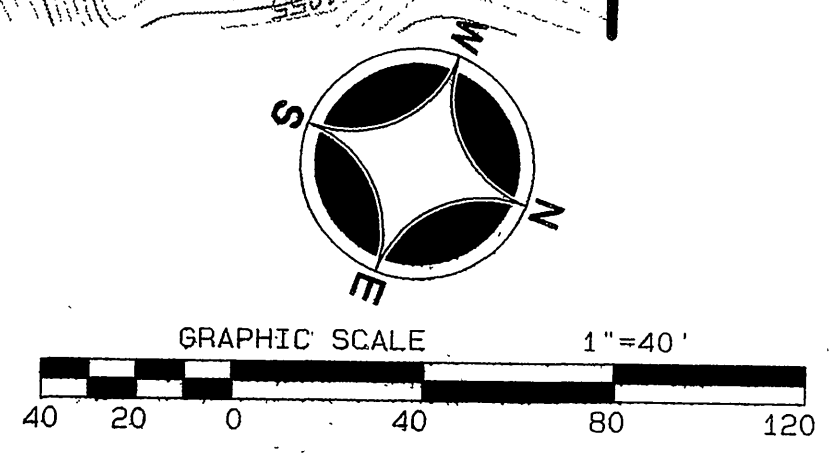


**SEWER CONSTRUCTION NOTES:**

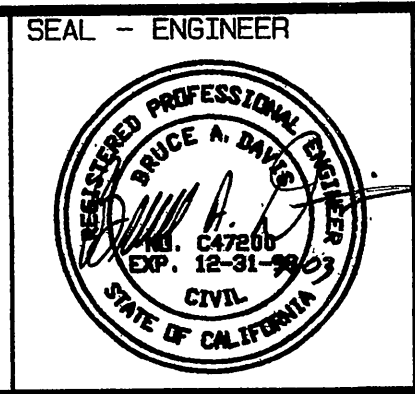
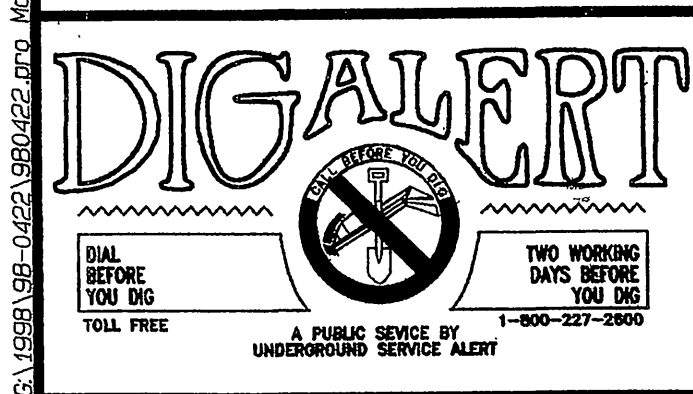
- (1) PROTECT EXISTING FACILITY IN PLACE.
- (2) CONSTRUCT 15" V.C.P. SEWERMAIN.
- (3) CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER WMMD STD. DWG. W-1070 AND W-1100.

**SEWERLINE CURVE DATA**

NO.	Δ	R	L	T.
1	02°26'05"	5985.00'	254.33'	127.18'



**LA SIERRA AVENUE**



**ALBERT A. WEBB**  
 CIVIL ENGINEERS  
 3788 McCRAY ST.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

**NOTE:**  
 THE DESIGN AND CONSTRUCTIBILITY OF THE PROJECT AS WELL AS THE ACCURACY OF FIGURES AND THE RESPONSIBILITY OF THE DESIGN ENGINEER. FIELD CHECK SERVICES BY W.M.W.D. WILL BE LIMITED TO THE EMERGENCY OF THE DISTRICT STANDARDS, MATERIALS, QUANTITIES AND SIZE OF FACILITIES AS THEY RELATE TO THE SERVICE DEMAND OR APPROVED MASTER PLAN. DELIVERY OF WATER TO THE IMPROVEMENTS SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION OF THE FILING PROVIDED AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
*[Signature]*  
 CIVIL ENGINEER DATE 2/24/00  
 VALID 12 MONTHS FROM THIS DATE

BENCH MARK:  
 SEE SHEET 2

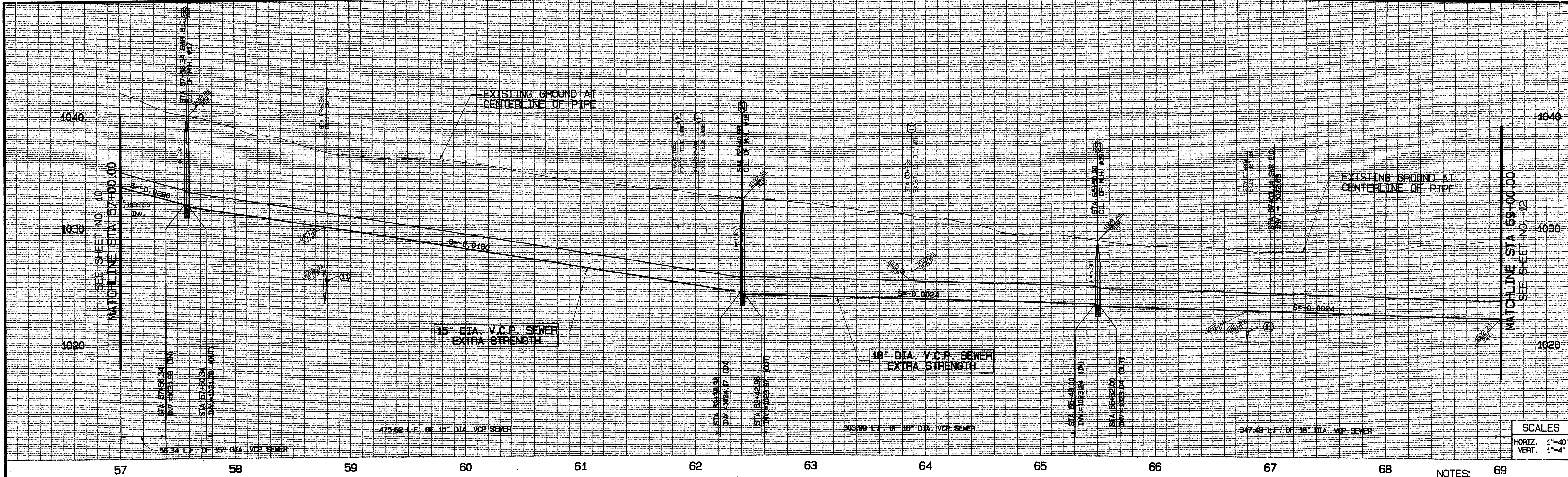
WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9784 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 LA SIERRA AVENUE  
 STA 45+00.00 TO STA 57+00.00  
 SCALE: HORIZ: 1" = 40' VERT: 1" = 4'

DRAWING NO. **S-1813**  
 SHEET 10 OF 25 SHEETS

INDEXED 10-01-03 Lfh





**SCALES**

HORIZ. 1"=40'

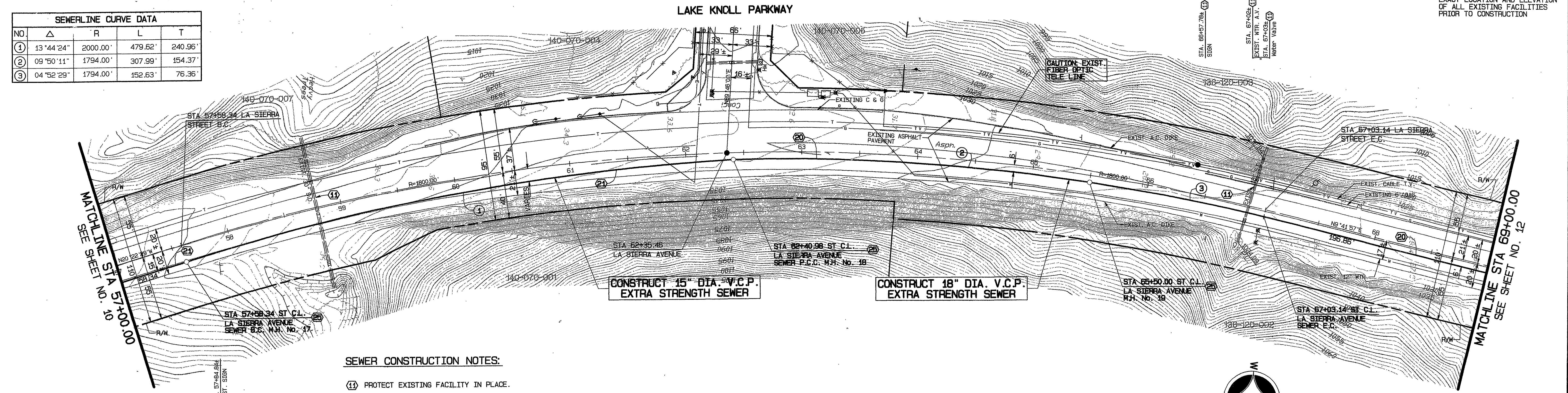
VERT. 1"=4'

**SEWERLINE CURVE DATA**

NO.	Δ	R	L	T
①	13°44'24"	2000.00'	479.62'	240.96'
②	09°50'11"	1794.00'	307.99'	154.37'
③	04°52'29"	1794.00'	152.63'	76.36'

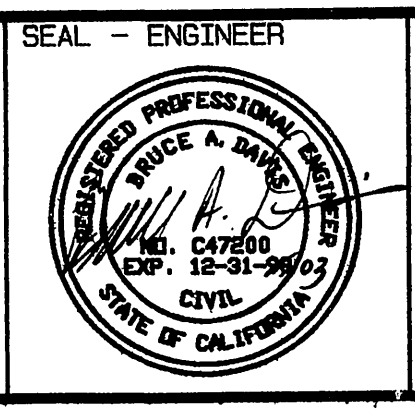
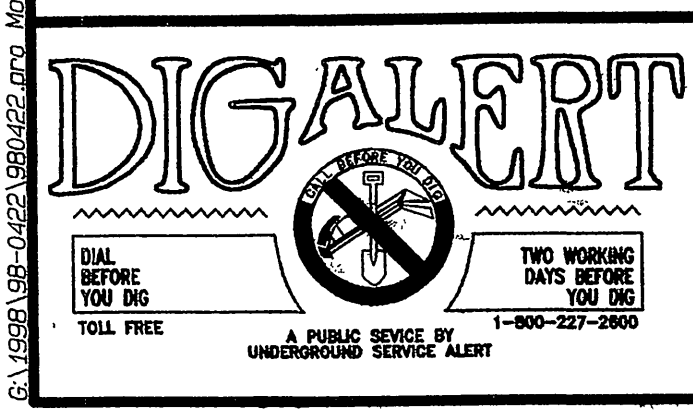
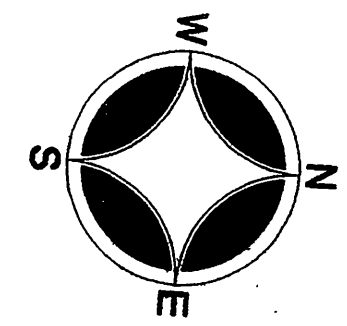
**NOTES:**

CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION



- SEWER CONSTRUCTION NOTES:**
- ①③ PROTECT EXISTING FACILITY IN PLACE.
  - ②④ CONSTRUCT 18" V.C.P. SEWERMAIN.
  - ②⑤ CONSTRUCT 15" V.C.P. SEWERMAIN.
  - ②⑥ CONSTRUCT 4' DIAMETER PRECAST CONCRETE MAN-HOLE PER MWMD STD. DWG. W-1070 AND W-1100.

**LA SIERRA AVENUE**



**ALBERT A. WEBB ASSOCIATES**  
 CIVIL ENGINEERS  
 3788 McCRAY ST.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

**NOTE:**  
 THE DESIGN AND CONSTRUCTABILITY OF THE PROJECT AS WELL AS THE ACCURACY OF FIGURES ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER. STAKE CHANGES SUBMITTED BY THE CLIENT WILL BE LIMITED TO THE AMOUNT OF THE PROJECT STANDARD, MATERIALS, QUANTITIES AND SIZE OF FACILITIES AS THEY RELATE TO THE SERVICES DEMANDS OR APPROVED MASTER PLAN. DELIVERY OF WATER TO THE IMPROVEMENTS SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION OF THE FUTURE PROPOSED AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
 [Signature]  
 CIVIL ENGINEER, No. 42612  
 DATE: 10/01/03  
 VALID AFTER ONE YEAR FROM THIS DATE

BENCH MARK:  
 SEE SHEET 2

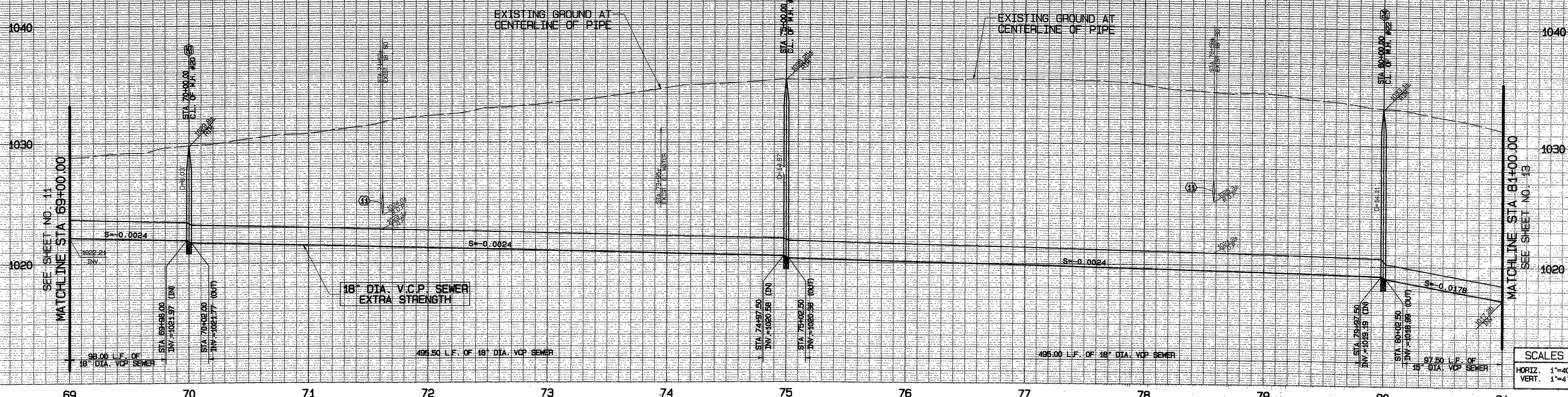
**WESTERN MUNICIPAL WATER DISTRICT**  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9764 (BUS) (909) 780-3837 (FAX)

**WESTERN MUNICIPAL WATER DISTRICT**  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 LA SIERRA AVENUE  
 STA 57+00.00 TO STA 69+00.00  
 SCALE: HORIZ. 1" = 40' VERT. 1" = 4'

**DRAWING NO. S-1813**  
 SHEET 11 OF 25 SHEETS

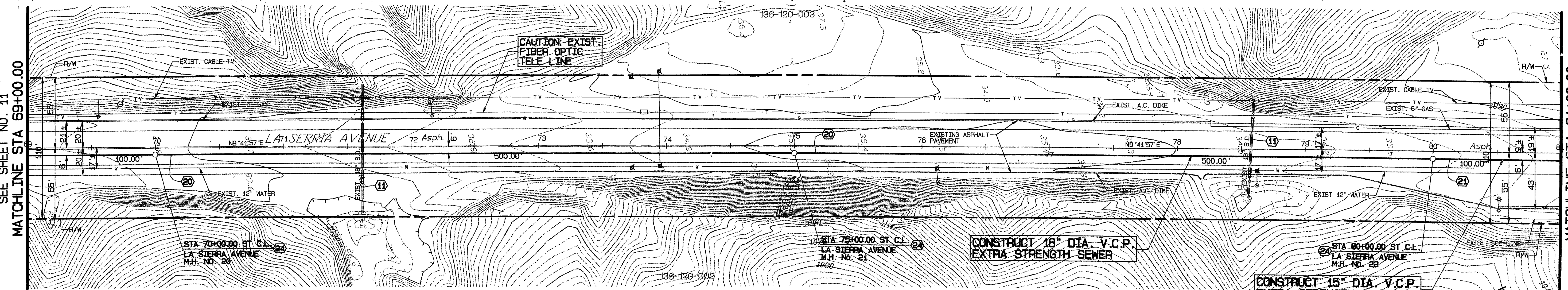
INDEXED 10-01-03 LTH





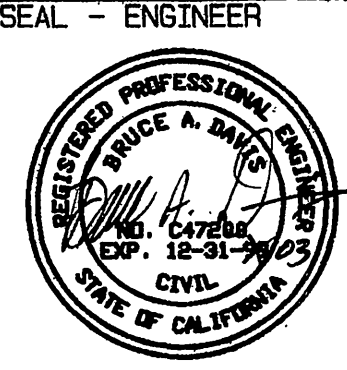
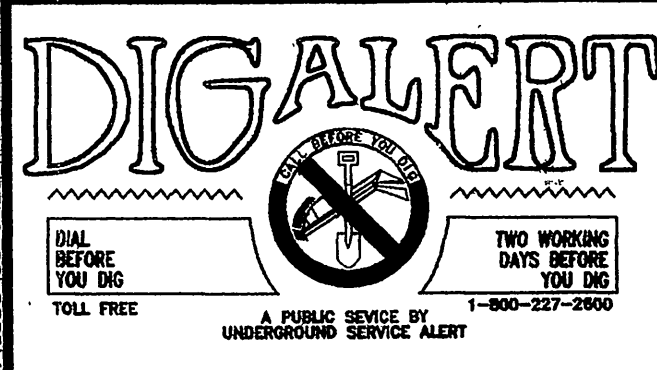
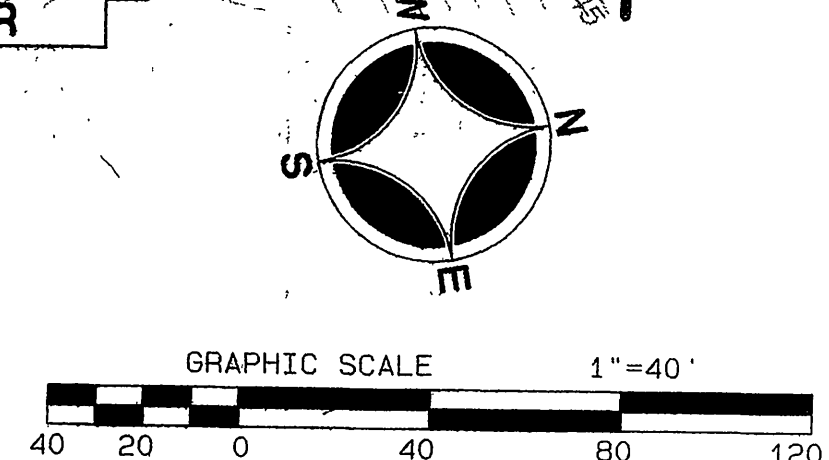
SCALES  
HORIZ. 1"=40'  
VERT. 1"=4'

NOTES:  
CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION



- SEWER CONSTRUCTION NOTES:**
- (11) PROTECT EXISTING FACILITY IN PLACE.
  - (20) CONSTRUCT 18" V.C.P. SEWERMAIN.
  - (21) CONSTRUCT 15" V.C.P. SEWERMAIN.
  - (24) CONSTRUCT 5' DIAMETER PRECAST CONCRETE MANHOLE PER MWM D. DWG. W-1070 AND W-1100.
  - (25) CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER MWM D. DWG. W-1070 AND W-1100.

**LA SIERRA AVENUE**



**ALBERT A. WEBB ASSOCIATES**  
ENGINEERING CONSULTANTS  
3788 McCRA Y ST.  
RIVERSIDE CA. 92506  
PH. (909) 686-1070  
FAX (909) 788-1256

**NOTE:**  
THE DESIGN AND CONSTRUCTION OF THIS PROJECT AS WELL AS THE ACCURACY OF RECORDS AND THE RESPONSIBILITY OF THE DESIGN ENGINEER, PEAN CHECK SERVICES BY W.M.W.D. WILL BE LIMITED TO THE APPEARANCE OF THE PROJECT STANDARDS, MATERIALS QUANTITIES AND SIZE OF FACILITIES AS THEY RELATE TO THE SERVICE DEMANDS OR APPROVED MASTER PLAN. DELIVERY OF WATER TO THE IMPROVEMENT SCHEMATIC PLAN IS DEPENDENT UPON COMPLETION OF THE FILING PROPOSED AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
*[Signature]*  
DATE: 2/24/02  
CIVIL ENGINEER (E.L.E. 4815)  
VOID WITHIN ONE YEAR FROM THIS DATE

BENCH MARK:  
SEE SHEET 2

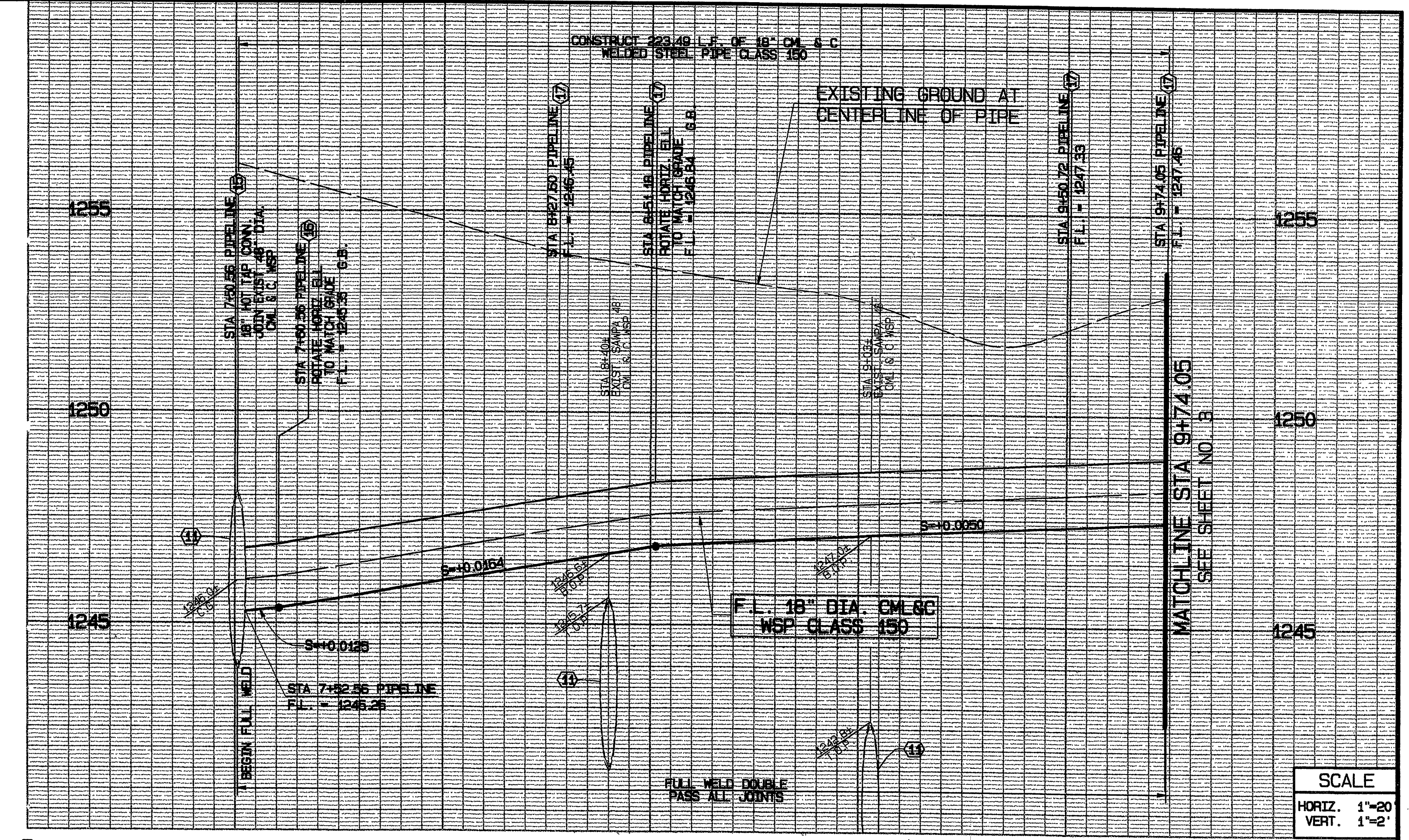
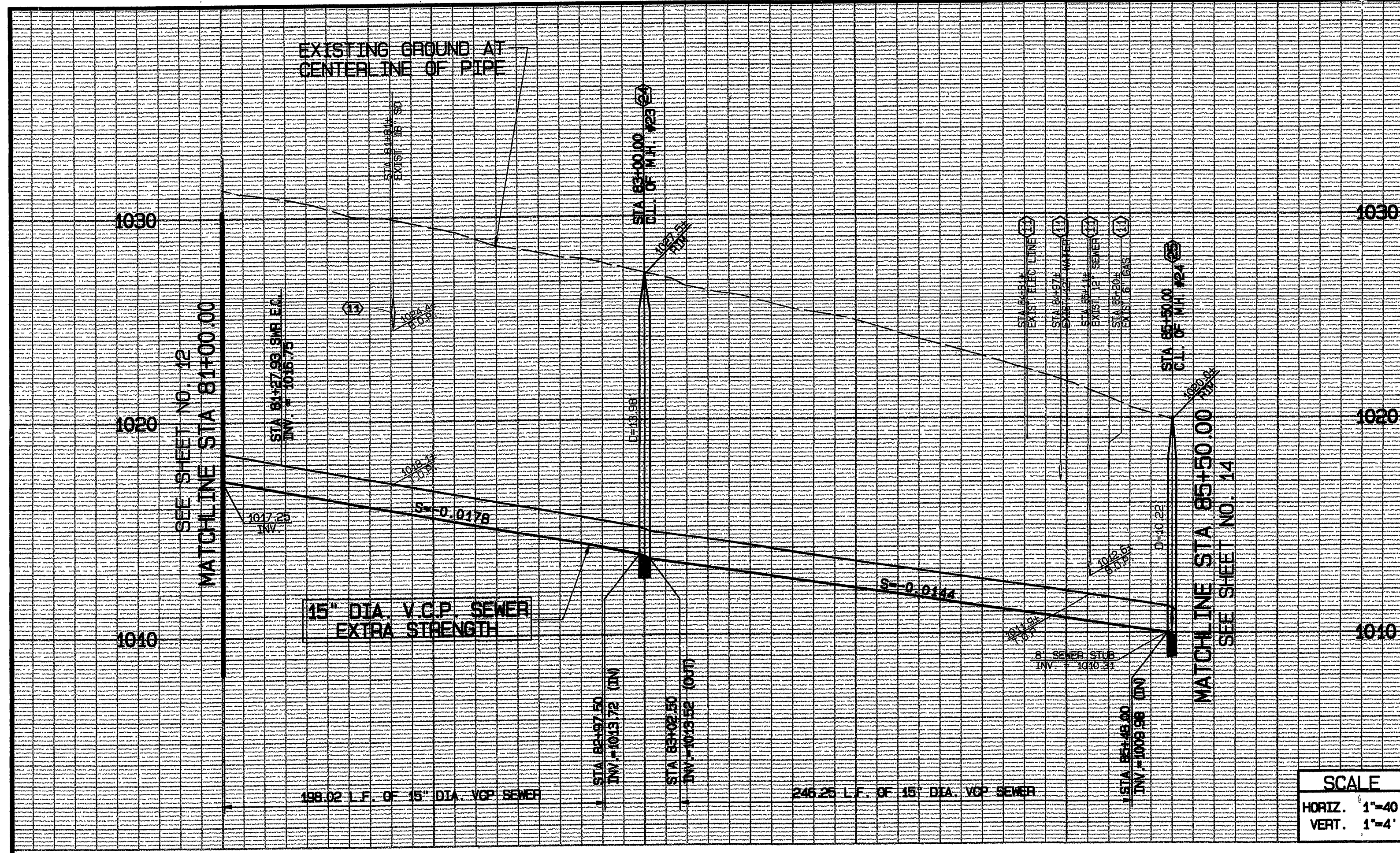
WESTERN MUNICIPAL WATER DISTRICT  
P.O. BOX 5286  
RIVERSIDE, CA. 92517-5286  
450 ALESSANDRO BLVD  
RIVERSIDE, CA. 92508  
(909) 780-9764 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
COUNTY OF RIVERSIDE  
LA SIERRA AVENUE  
STA 69+00.00 TO STA 81+00.00  
SCALE: HORIZ. 1" = 40' VERT. 1" = 4'

DRAWING NO. **S-1813**  
SHEET 12 OF 25 SHEETS

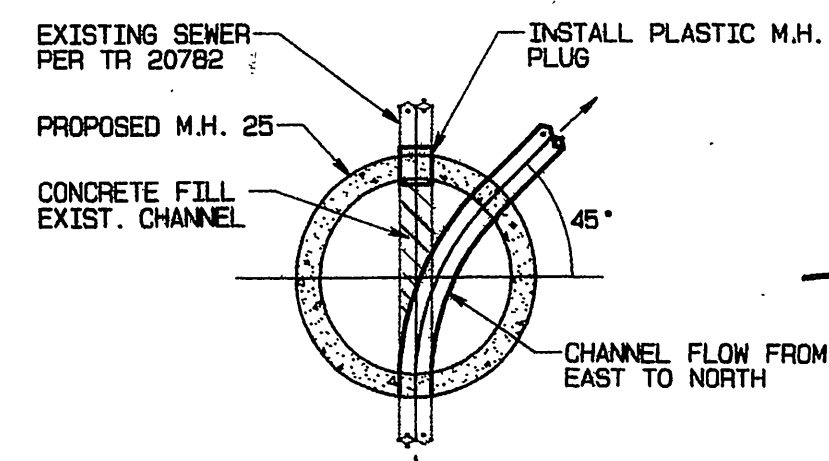
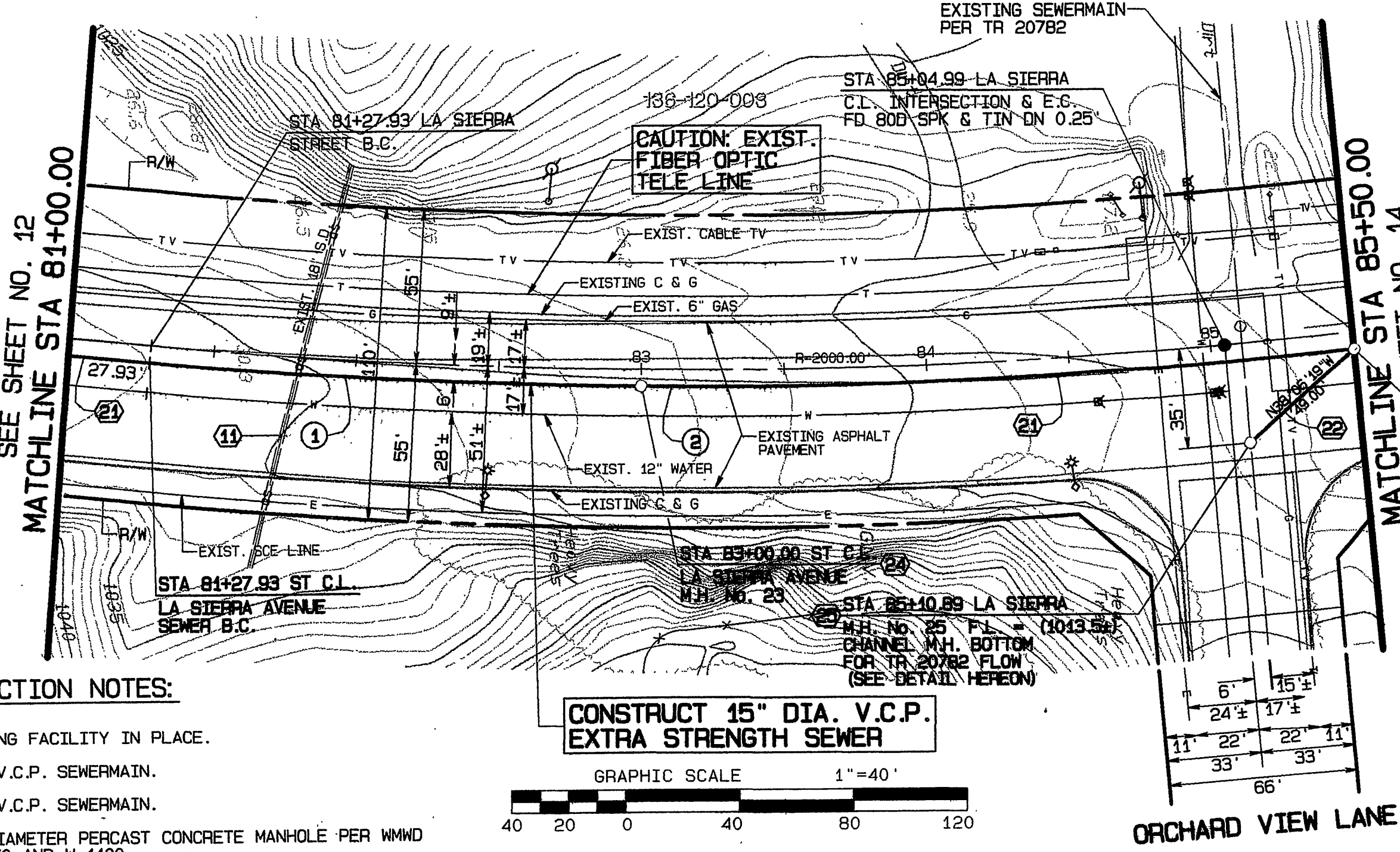
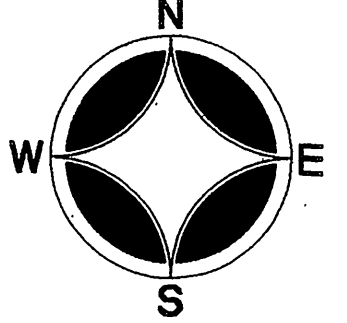
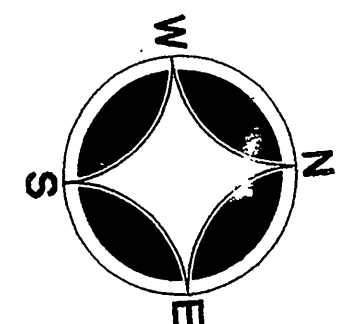
INDEXED 10-01-03 LFA





**SEWERLINE CURVE DATA**

NO.	Δ	R	L	T
1	04°55'46"	2006.00'	172.59'	86.35'
2	07°09'43"	2006.00'	250.75'	125.54'



NOTE: CONTRACTOR TO PUMP EXISTING SEWER FLOW TO EXISTING DOWNSTREAM MANHOLE WHILE CONSTRUCTING MANHOLE #25.

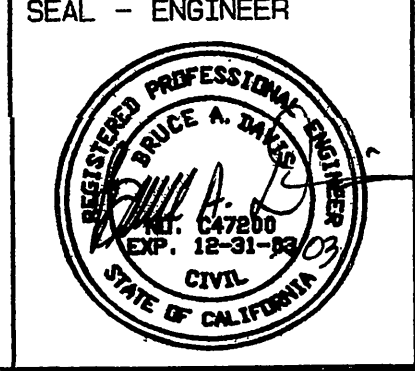
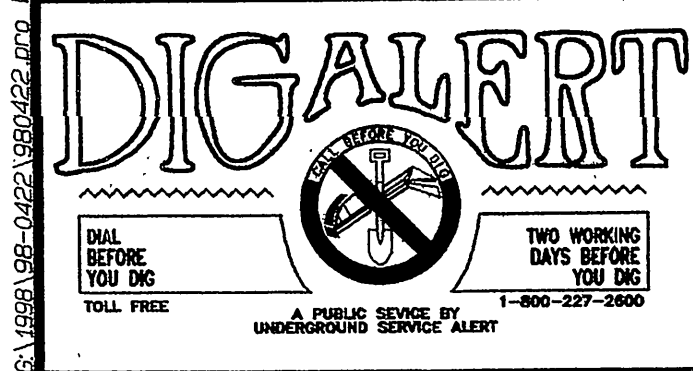
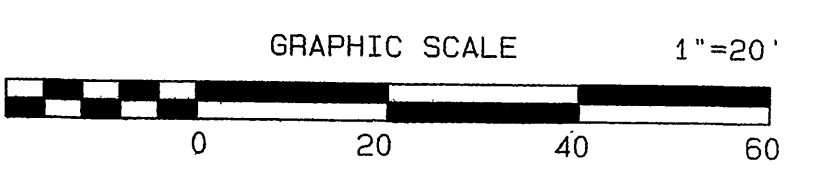
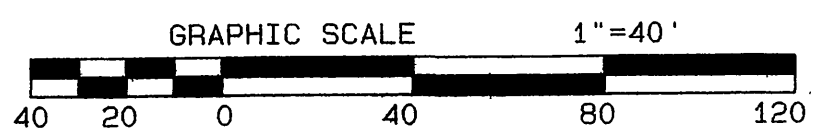
**WATER CONSTRUCTION NOTES:**

- 11 CONSTRUCT 18" CEMENT MORTAR LINED AND COATED CLASS 150 WELDED STEEL WATERMAIN.
- 12 PROTECT IN PLACE.
- 13 18" HOT TAP CONNECTION W/TAPPING GATE VALVE AND TAPPING SLEEVE.
- 14 CONSTRUCT 18" DIA. CEMENT MORTAR LINED AND COATED CLASS 150 WELDED STEEL 4-PIECE 90° ELBOW, R=2.5D.
- 15 CONSTRUCT 18" DIA. CEMENT MORTAR LINED AND COATED CLASS 150 WELDED STEEL 4-PIECE 45° ELBOW, R=2.5D.
- 16 CONSTRUCT CATHODIC PROTECTION TEST STATION FLANGE INCLINATION GASKET KIT PER MWMID STD. DWG. W-0490.

**SEWER CONSTRUCTION NOTES:**

- 11 PROTECT EXISTING FACILITY IN PLACE.
- 12 CONSTRUCT 15" V.C.P. SEWERMAIN.
- 13 CONSTRUCT 12" V.C.P. SEWERMAIN.
- 14 CONSTRUCT 5' DIAMETER PERCAST CONCRETE MANHOLE PER MWMID STD. DWG. W-1070 AND W-1100.
- 15 CONSTRUCT 4' DIAMETER PERCAST CONCRETE MANHOLE PER MWMID STD. DWG. W-1070 AND W-1100.

**LA SIERRA AVENUE**



**ALBERT A. WEBB ASSOCIATES**  
 CIVIL ENGINEERS  
 3788 McCray St.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

**NOTE:**  
 THE DESIGN AND CONSTRUCTION OF THIS PROJECT AS WELL AS THE ACCURACY OF FIGURES AND THE RESPONSIBILITY OF THE DESIGN ENGINEER SHALL BE THE RESPONSIBILITY OF THE DESIGN ENGINEER. THE DESIGN ENGINEER'S LIABILITY SHALL BE LIMITED TO THE EXTENT OF THE DESIGN SERVICES PROVIDED TO THE CLIENT AND SHALL NOT BE EXTENDED TO ANY OTHER PART OF THE PROJECT OR TO ANY OTHER PARTY. THE DESIGN ENGINEER'S LIABILITY SHALL NOT BE EXTENDED TO ANY OTHER PART OF THE PROJECT OR TO ANY OTHER PARTY.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
 DATE: 2/24/04  
 BENCH MARK: SEE SHEET 2

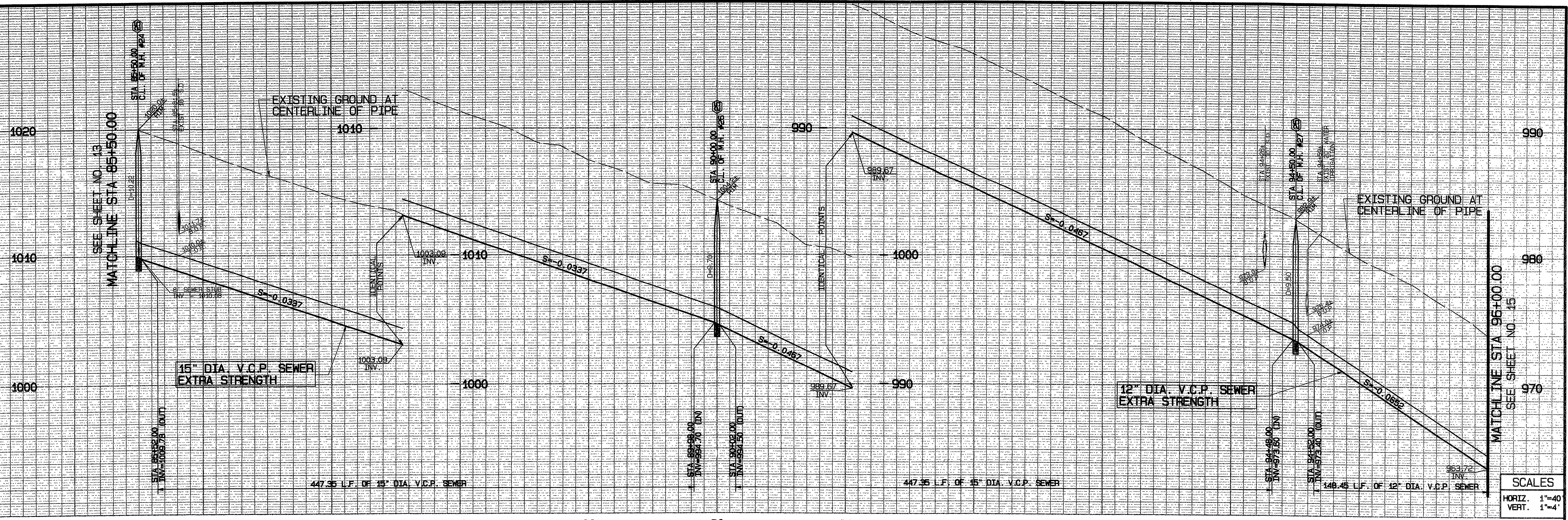
WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9764 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 LA SIERRA AVENUE  
 STA 81+00.00 TO STA 85+16.99

DRAWING NO. **S-1813**  
 SHEET 13 OF 25 SHEETS

INDEXED 10-01-03 LHT



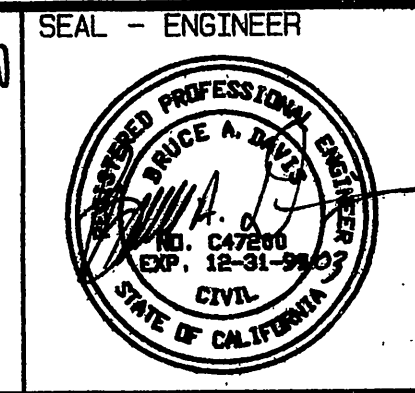
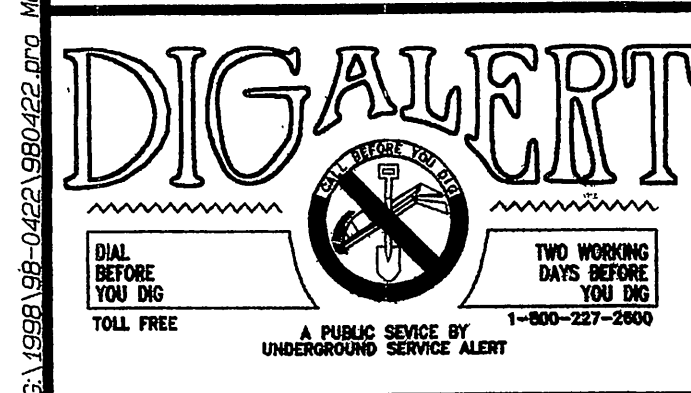
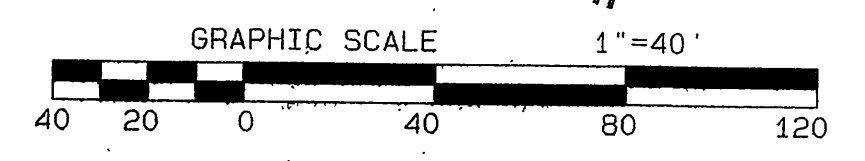
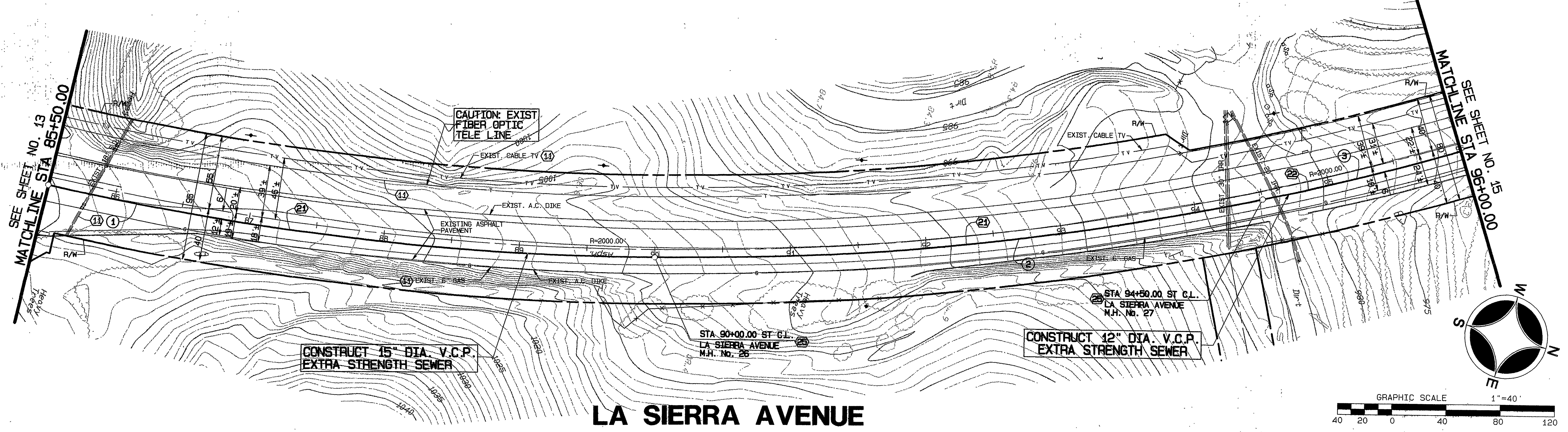


SCALES  
 HORIZ. 1"=40'  
 VERT. 1"=4'

SEWERLINE CURVE DATA				
NO.	Δ	R	L	T
①	12°53'30"	2006.00'	451.35'	226.63'
②	12°53'30"	2006.00'	451.35'	226.63'
③	04°17'50"	2006.00'	150.45'	75.26'

- SEWER CONSTRUCTION NOTES:
- ⑭ PROTECT EXISTING FACILITY IN PLACE.
  - ⑰ CONSTRUCT 15" V.C.P. SEWERMAIN.
  - ⑱ CONSTRUCT 12" V.C.P. SEWERMAIN.
  - ⑳ CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER WMD STD. DWG. W-1070 AND W-1100.

NOTES:  
 CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION



ALBERT A. WEBB  
**WEBB ASSOCIATES**  
 ENGINEERING CONSULTANTS  
 3788 MCCRAY ST.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

NOTE:  
 THE DESIGN AND CONSTRUCTIBILITY OF THE PROJECT AS WELL AS THE ACCURACY OF FIGURES ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER. PLAN CORRECTIONS BY W.M.W.D. WILL BE LIMITED TO THE JURISDICTION OF THE DISTRICT ENGINEER. MATERIALS, QUANTITIES AND SIZES OF FACILITIES AS THEY RELATE TO THE SHOWN DIMENSIONS OR APPROVED MATERIAL PLANS. DELAYERS OF WATER TO THE IMPROVED SERVICE ON THESE PLANS IS DEPENDENT UPON COMPLETION OF THE FILING PROPOSED AS PART OF OTHER TRACTS OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
 CIVIL ENGINEER: [Signature] DATE: 2/20/00  
 BENCH MARK: SEE SHEET 2

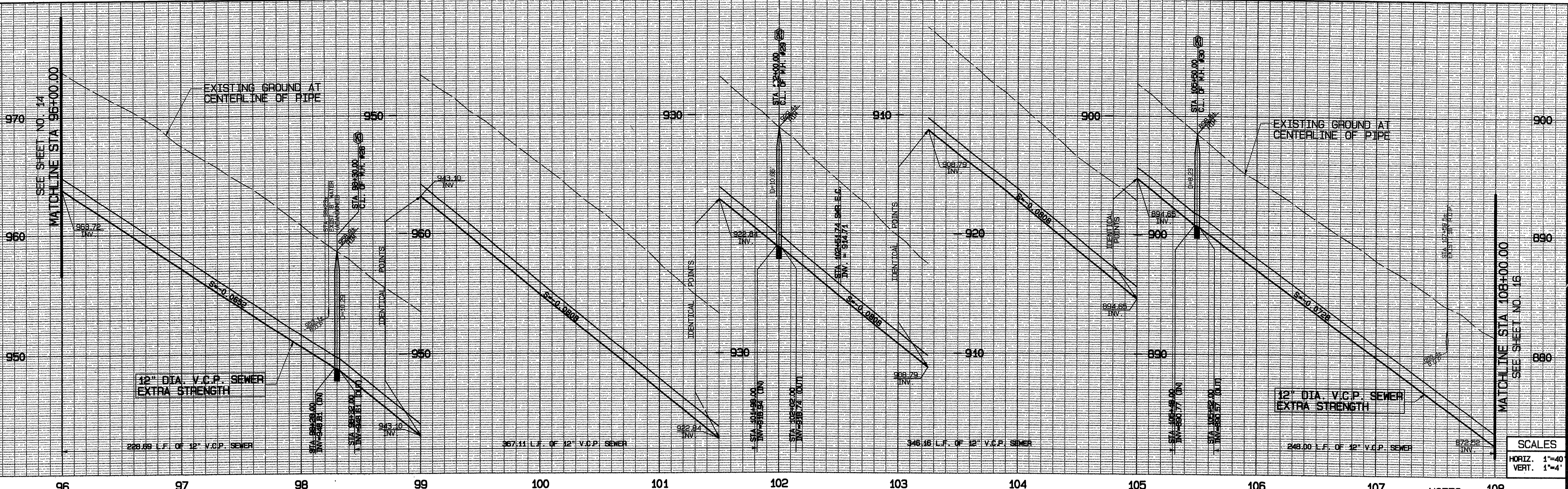
WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9764 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 LA SIERRA AVENUE  
 STA 85+16.99 TO STA 96+00.00  
 SCALE: HORIZ: 1" = 40' VERT: 1" = 4'

DRAWING NO. **S-1813**  
 SHEET 14 OF 25 SHEETS

INDEXED 10-01-03 LFH





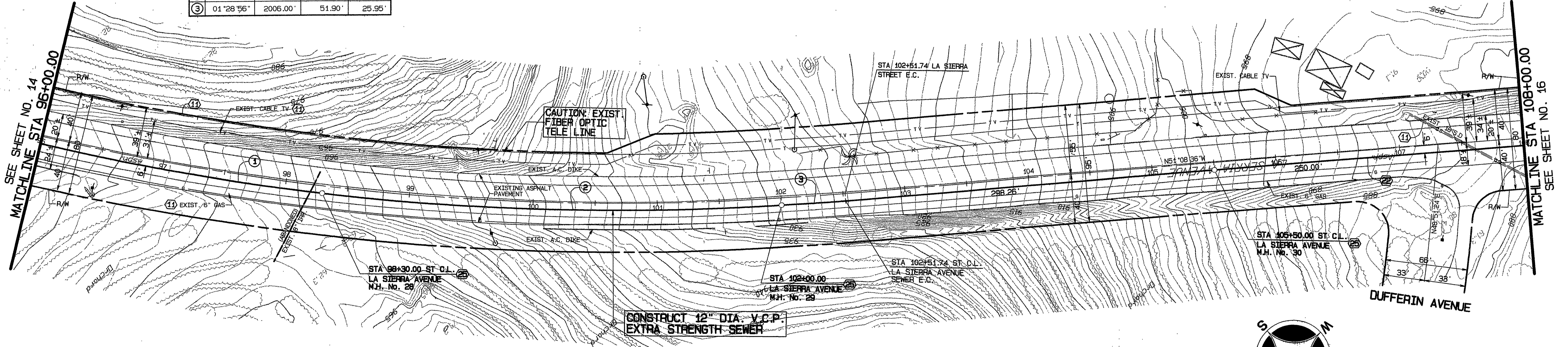
SCALES  
 HORIZ. 1"=40'  
 VERT. 1"=4'

SEWERLINE CURVE DATA				
NO.	Δ	R	L	T
①	06°35'20"	2006.00'	230.69'	115.47'
②	10°35'59"	2006.00'	371.11'	186.09'
③	01°28'56"	2006.00'	51.90'	25.95'

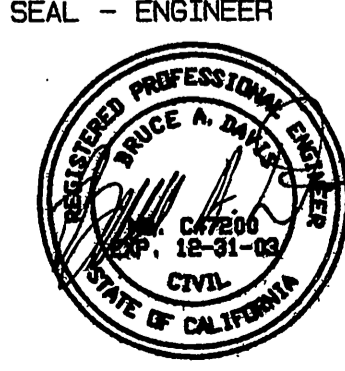
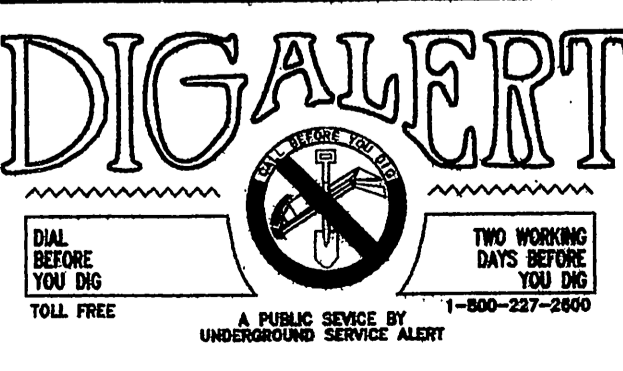
**SEWER CONSTRUCTION NOTES:**

- ① PROTECT FACILITY IN PLACE.
- ② CONSTRUCT 12" V.C.P. SEWERMAIN.
- ③ CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER MWM STD. DWG. W-1070 AND W-1100.

NOTES:  
 CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION



**LA SIERRA AVENUE**



**ALBERT A. WEBB ASSOCIATES**  
 ENGINEERING CONSULTANTS  
 3788 McCRAY ST.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

NOTE:  
 THE DESIGN AND CONSTRUCTIBILITY OF THE PROJECT AS WELL AS THE ACCURACY OF FIGURES ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER. PLAN CHECK SERVICES BY W.M.W.D. WILL BE LIMITED TO THE AGREEMENT OF THE CONTRACT STATIONING, MATERIALS, QUANTITIES AND SIZE OF FACILITIES AS THEY RELATE TO THE SERVICE DEMANDS ON APPROVED MASTER PLAN. DEFERRED TO THE IMPROVED GROUND ON THESE PLANS IS DEPENDENT UPON COMPLETION OF THE FILING PROPOSED AS PART OF OTHER PHASES OF THIS TRUNK AND/OR OTHER ADJACENT TRUNKS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
 CIVIL ENGINEER: [Signature] DATE: 2/24/00  
 YOUR TERM ONE YEAR FROM THIS DATE

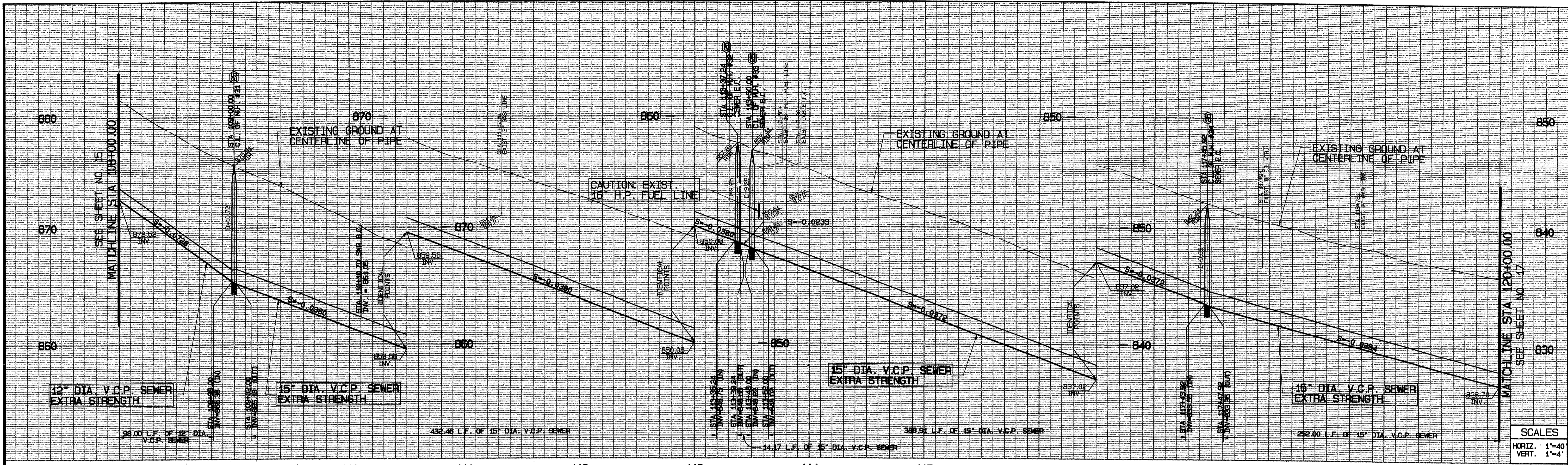
WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9764 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 LA SIERRA AVENUE  
 STA 96+00.00 TO STA 108+00.00  
 SCALE: HORIZ. 1" = 40' VERT. 1" = 4'

DRAWING NO. **S-1813**  
 SHEET 15 OF 25 SHEETS

INDEXED 10-01-03 LFH





**SCALES**

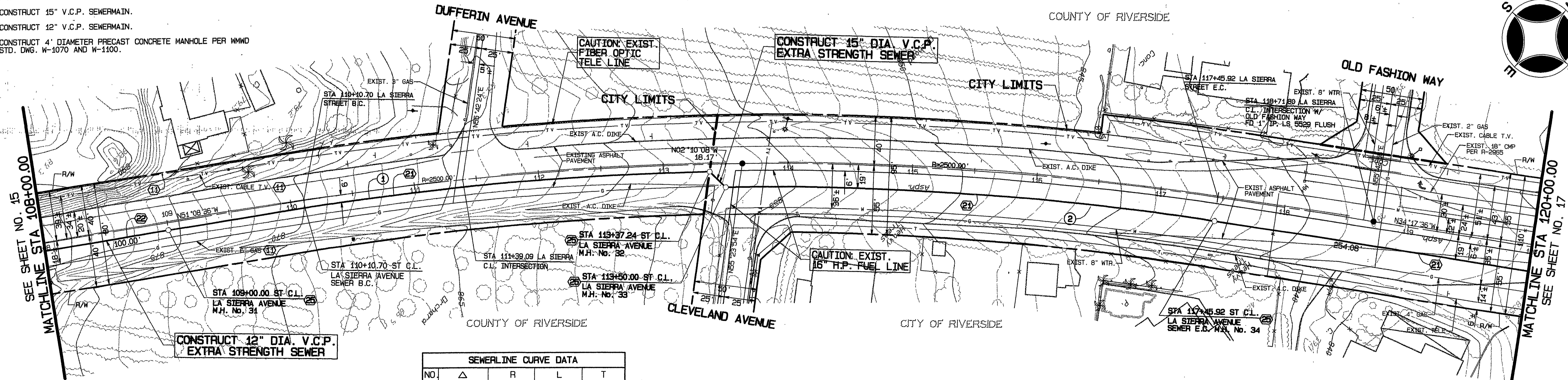
HORIZ. 1"=40'  
VERT. 1"=4'

**SEWER CONSTRUCTION NOTES:**

- (1) PROTECT EXISTING FACILITY IN PLACE.
- (2) CONSTRUCT 15" V.C.P. SEWERMAIN.
- (3) CONSTRUCT 12" V.C.P. SEWERMAIN.
- (4) CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER MMD STD. DWG. W-1070 AND W-1100.

**NOTES:**

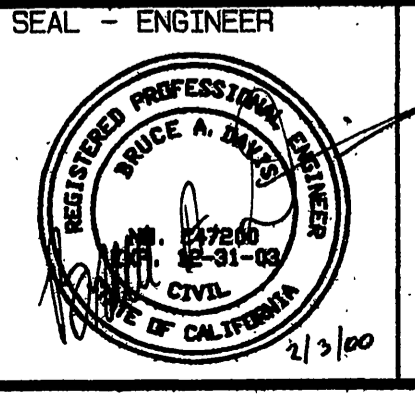
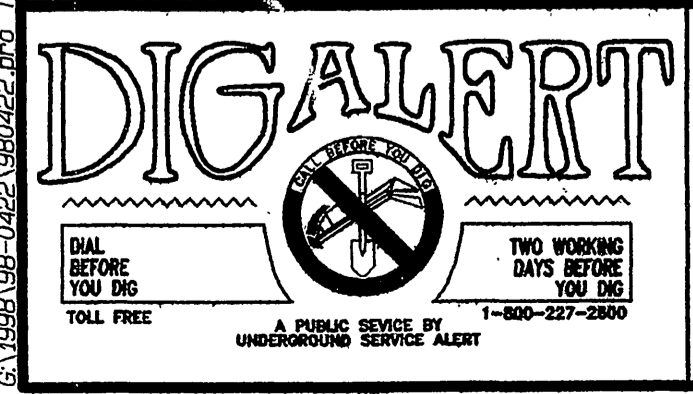
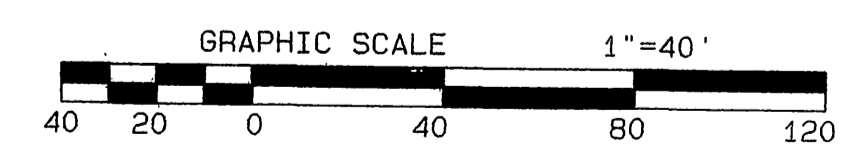
CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION



**SEWERLINE CURVE DATA**

NO.	Δ	R	L	T
①	07°29'04"	2494.00'	325.76'	163.11'
②	09°04'26"	2481.00'	392.91'	196.87'

**LA SIERRA AVENUE**



**ALBERT A. WEBB ASSOCIATES**  
ENGINEERING CONSULTANTS

**CIVIL ENGINEERS**  
3788 McCRAY ST.  
RIVERSIDE CA. 92506  
PH. (909) 686-1070  
FAX (909) 788-1256

**NOTE:**  
THE DESIGN AND CONSTRUCTIBILITY OF THIS PROJECT AS WELL AS THE ACCURACY OF FIGURES ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER. PLAN CHECK SERVICES BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION OF THIS PROJECT INVOLVING MATERIALS, QUANTITIES AND USE OF FACTORIES AS THEY RELATE TO THE SERVICE DEMANDS OR APPROVED MASTER PLAN. DEFERRAL OF WATER TO THE IMPROVED SERVICE ON THESE PLANS IS DEPENDENT UPON COMPLETION OF THE PERIOD PROPOSED AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
DATE: 2/24/00  
CITY ENGINEER: G. G. 46815  
BENCH MARK: SEE SHEET 2

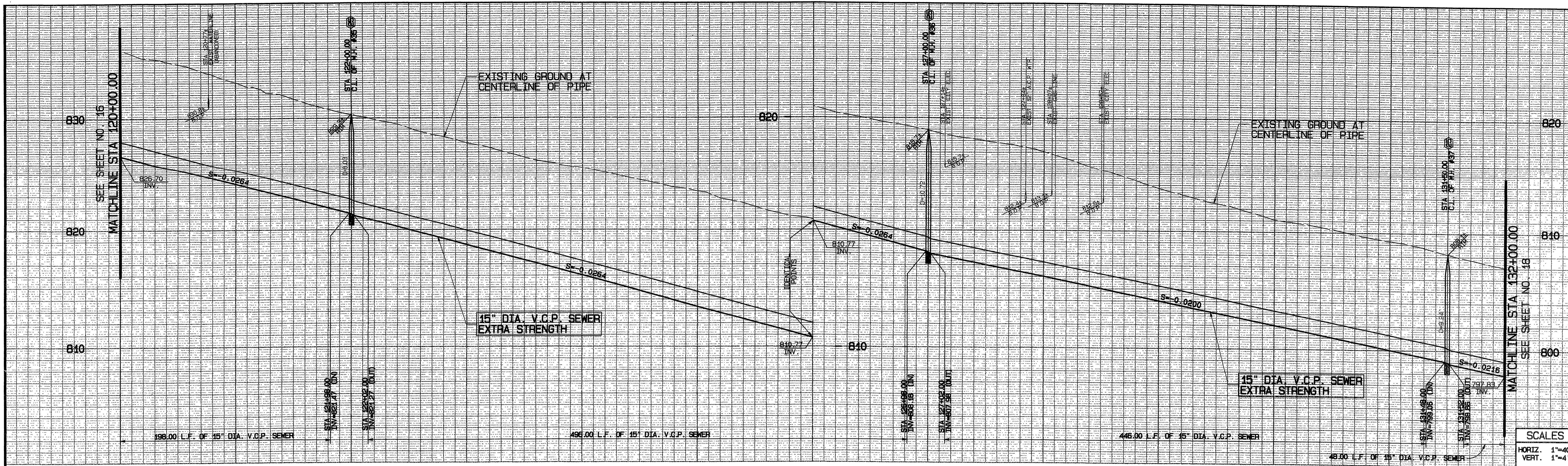
WESTERN MUNICIPAL WATER DISTRICT  
P.O. BOX 5286  
RIVERSIDE, CA. 92517-5286  
450 ALESSANDRO BLVD  
RIVERSIDE, CA. 92508  
(909) 780-9764 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
COUNTY OF RIVERSIDE  
LA SIERRA AVENUE  
STA 108+00.00 TO STA 120+00.00  
SCALE: HORIZ. 1" = 40' VERT. 1" = 4'

DRAWING NO. **S-1813**  
SHEET 16 OF 25 SHEETS

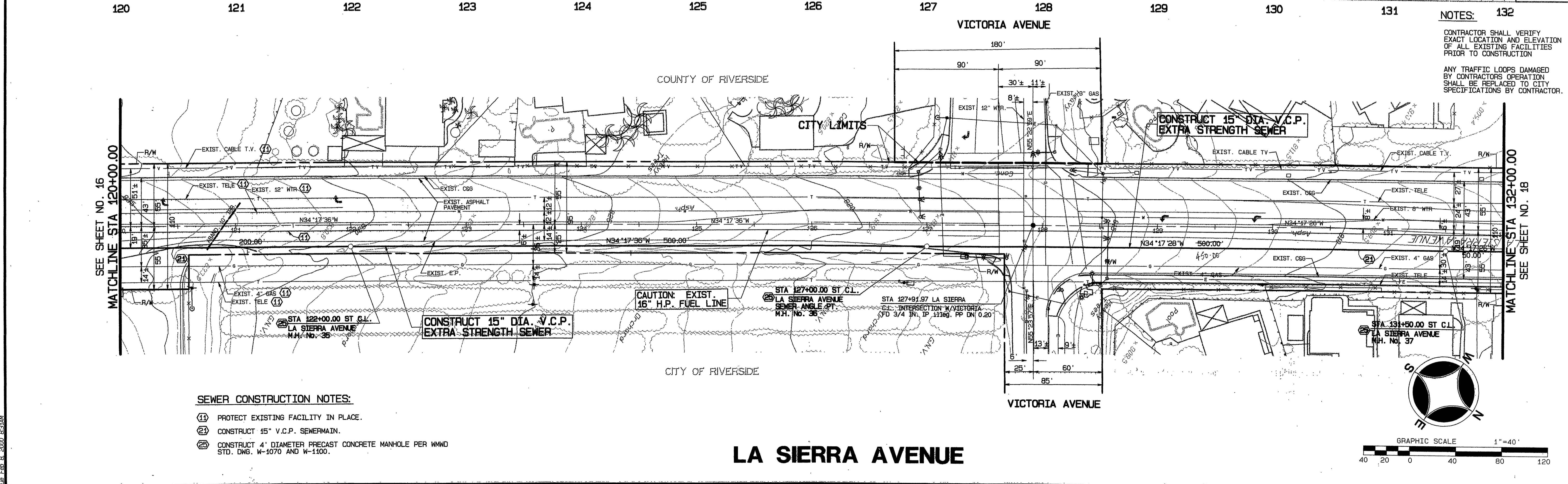
INDEXED 10-01-03 LFH





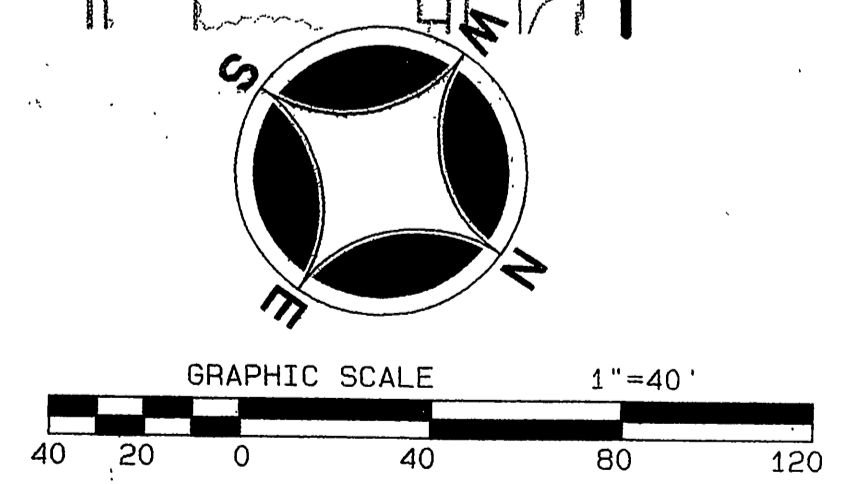
SCALES  
 HORIZ. 1"=40'  
 VERT. 1"=4'

NOTES:  
 CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION.  
 ANY TRAFFIC LOOPS DAMAGED BY CONTRACTORS OPERATION SHALL BE REPLACED TO CITY SPECIFICATIONS BY CONTRACTOR.



SEWER CONSTRUCTION NOTES:  
 (11) PROTECT EXISTING FACILITY IN PLACE.  
 (21) CONSTRUCT 15" V.C.P. SEWERMAIN.  
 (25) CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER MWM STD. DWG. W-1070 AND W-1100.

**LA SIERRA AVENUE**



**DIGALERT**  
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT  
 TWO WORKING DAYS BEFORE YOU DIG  
 1-800-227-2909

SEAL - ENGINEER

**ALBERT A. WEBB**  
 ASSOCIATES  
 ENGINEERING CONSULTANTS  
 CIVIL ENGINEERS  
 3788 MCCRAY ST.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

NOTE:  
 THE DESIGN AND CONSTRUCTIBILITY OF THIS PROJECT AS WELL AS THE ACCURACY OF FIGURES ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER. PLAN CORRECTIONS BY P.A.S.D. WILL BE LIMITED TO THE AGREEMENT OF THE INSPECTOR REGARDING MATERIALS, QUANTITIES AND SIZE OF FACILITIES AS THEY RELATE TO THE GENERAL LAYOUT OR APPLICABLE MASTER PLAN. DELIVERY OF WATER TO THE IMPROVEMENTS SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION OF THE HYDRO PROGRAM AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
  
 CIVIL ENGINEER P.A.S.D. 46818 DATE 2/24/00  
 VOID AFTER ONE YEAR FROM THIS DATE  
 BENCH MARK:  
 SEE SHEET 2

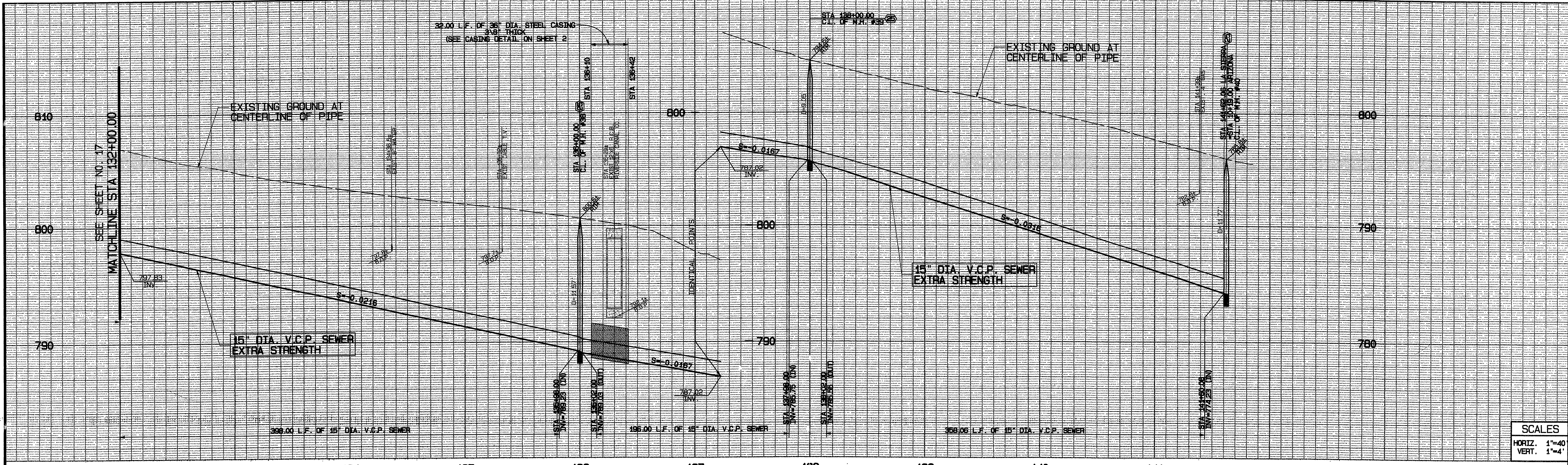
WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9784 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 LA SIERRA AVENUE  
 STA 120+00.00 TO STA 132+00.00

DRAWING NO. **S-1813**  
 SHEET 17 OF 25 SHEETS

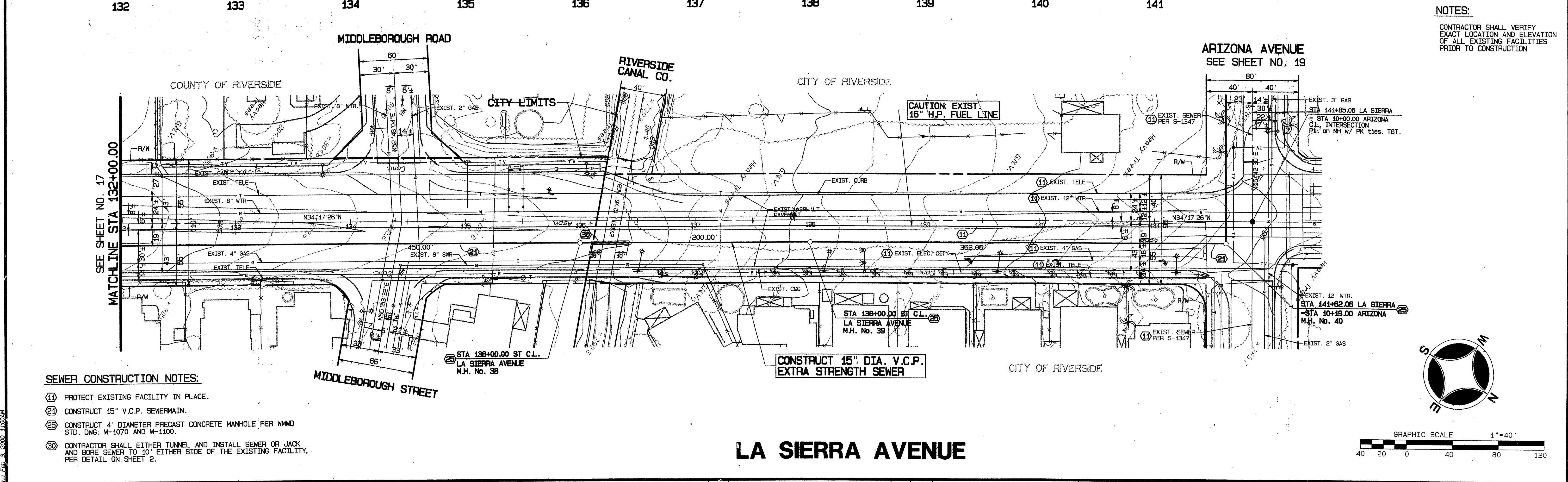
INDEXED 10-01-03 LFH



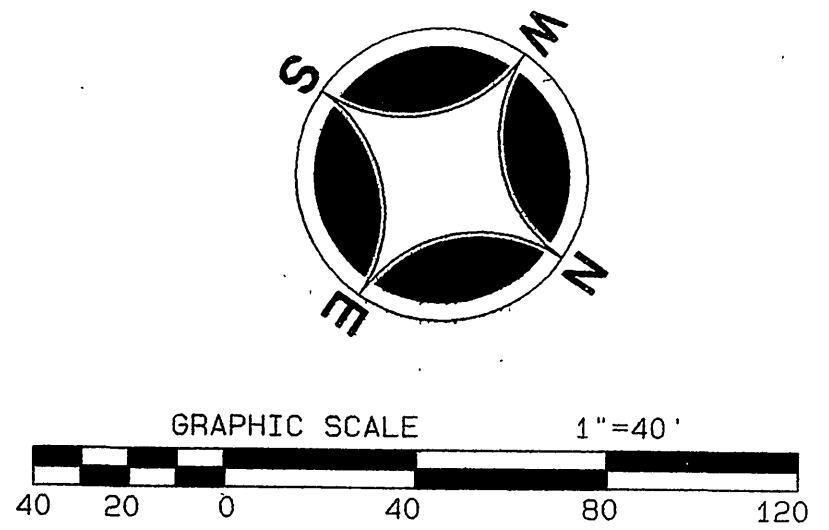


SCALES	
HORIZ.	1"=40'
VERT.	1"=4'

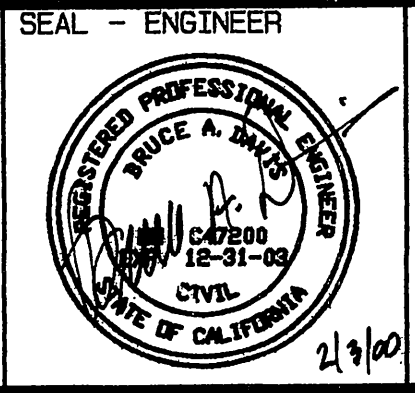
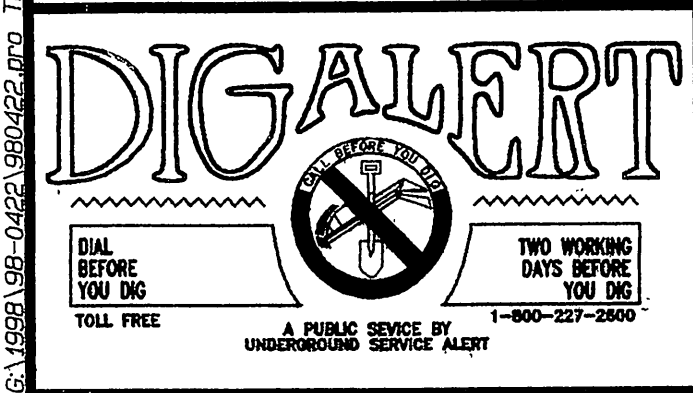
**NOTES:**  
 CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION



- SEWER CONSTRUCTION NOTES:**
- ① PROTECT EXISTING FACILITY IN PLACE.
  - ② CONSTRUCT 15" V.C.P. SEWERMAIN.
  - ③ CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER MWD STD. DWG. W-1070 AND W-1100.
  - ④ CONTRACTOR SHALL EITHER TUNNEL AND INSTALL SEWER OR JACK AND BORE SEWER TO 10' EITHER SIDE OF THE EXISTING FACILITY. PER DETAIL ON SHEET 2.



## LA SIERRA AVENUE



**ALBERT A. WEBB ASSOCIATES**  
 CIVIL ENGINEERS  
 3788 McCRAY ST.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

**NOTE:**  
 THE DESIGN AND CONSTRUCTION OF THE PROJECT AS WELL AS THE ACCURACY OF RECORDS ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER. PLAN CHECKS PROVIDED BY W.M.W.D. WILL BE LIMITED TO THE ACCURACY OF THE RECORDS. W.M.W.D. WILL NOT BE RESPONSIBLE FOR THE SIZE OF FACILITIES AS THEY RELATE TO THE SERVICE DEMANDS OR APPROVED MASTER PLAN. DELIVERY OF WATER TO THE IMPROVEMENT SCHEME OR OTHER PLANS IS DEPENDENT UPON COMPLETION OF THE PIPING PROPOSED AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
*M.A. Sierra* 2/24/00  
 CIVIL ENGINEER, REG. NO. 44212  
 DATE: FEBRUARY ONE YEAR FROM THIS DATE  
 BENCH MARK: SEE SHEET 2

**WESTERN MUNICIPAL WATER DISTRICT**  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9764 (BUS) (909) 780-3837 (FAX)

**WESTERN MUNICIPAL WATER DISTRICT**  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 LA SIERRA AVENUE  
 STA 132+00.00 TO STA 141+62.06  
 SCALE: HORIZ: 1" = 40' VERT: 1" = 4'

DRAWING NO. **S-1813**  
 SHEET 18 OF 25 SHEETS

INDEXED 10-01-03 LFT



790

780

770

790

780

770

2

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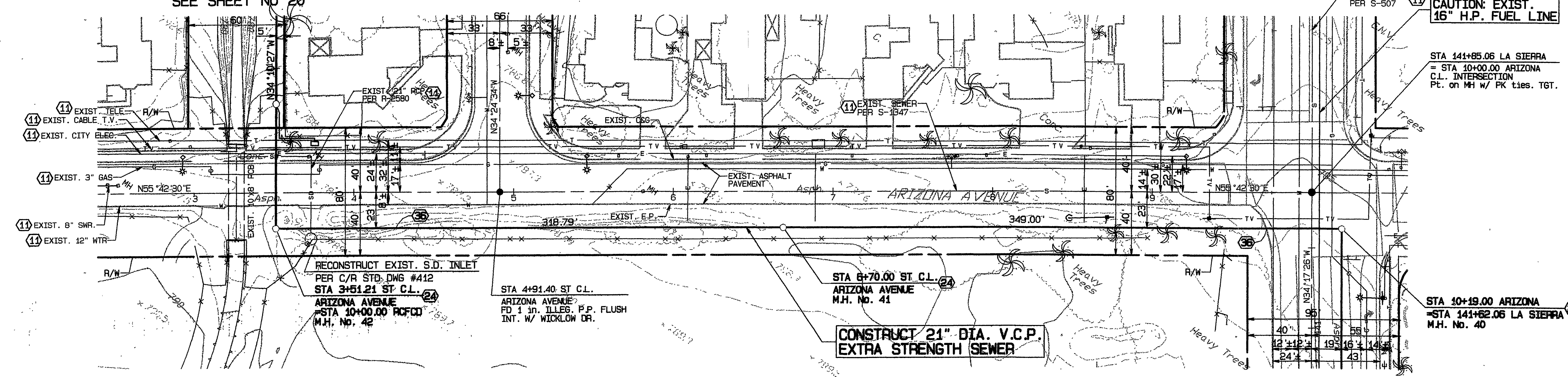
10

**SCALES**  
 HORIZ. 1"=40'  
 VERT. 1"=4'

**NOTES:**  
 CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION

R.C.F.C.W.C.D. RIGHT OF WAY  
 SEE SHEET NO 20

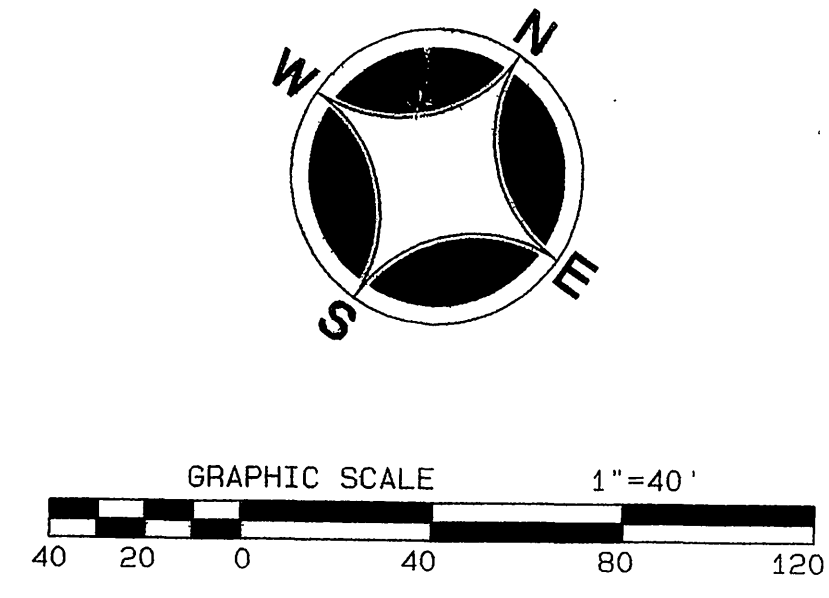
WICKLOW STREET



SEE SHEET NO. 18  
 LA SIERRA AVENUE

- SEWER CONSTRUCTION NOTES:**
- 11 PROTECT EXISTING FACILITY IN PLACE.
  - 24 CONSTRUCT 5' DIAMETER PRECAST CONCRETE MANHOLE PER WMD STD. DWG. W-1070 AND W-1100.
  - 25 CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER WMD STD. DWG. W-1070 AND W-1100.
  - 35 CONSTRUCT 21" V.C.P. SEWERMAIN.

**ARIZONA AVENUE**



**DIGALERT**  
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT  
 CALL BEFORE YOU DIG  
 TOLL FREE 1-800-227-2500

SEAL - ENGINEER  
  
 ALBERT A. WEBB  
 ASSOCIATES  
 ENGINEERING CONSULTANTS

CIVIL ENGINEERS  
 3788 MCCRAY ST.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

**NOTE:**  
 THE DESIGN AND CONSTRUCTIBILITY OF THIS PROJECT AS WELL AS THE ACCURACY OF FIGURES AND THE RESPONSIBILITY OF THE DESIGN ENGINEER, PLAN CHECKS, SPECIFICATIONS BY W.M.W.D. WILL BE LIMITED TO THE AGREEMENT OF THE PROPERTY OWNERS, MATERIALS, QUANTITIES AND USES OF FACILITIES AS THEY RELATE TO THE SPECIFIC DRAWING OR APPROVED MASTER PLAN. DELIVERY OF WATER TO THE IMPROVEMENTS SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION OF THE WORK PROVIDED AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHERS ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
  
 CIVIL ENGINEER, LICENSE 48212  
 DATE 2/24/07  
 BENCH MARK:  
 SEE SHEET 2

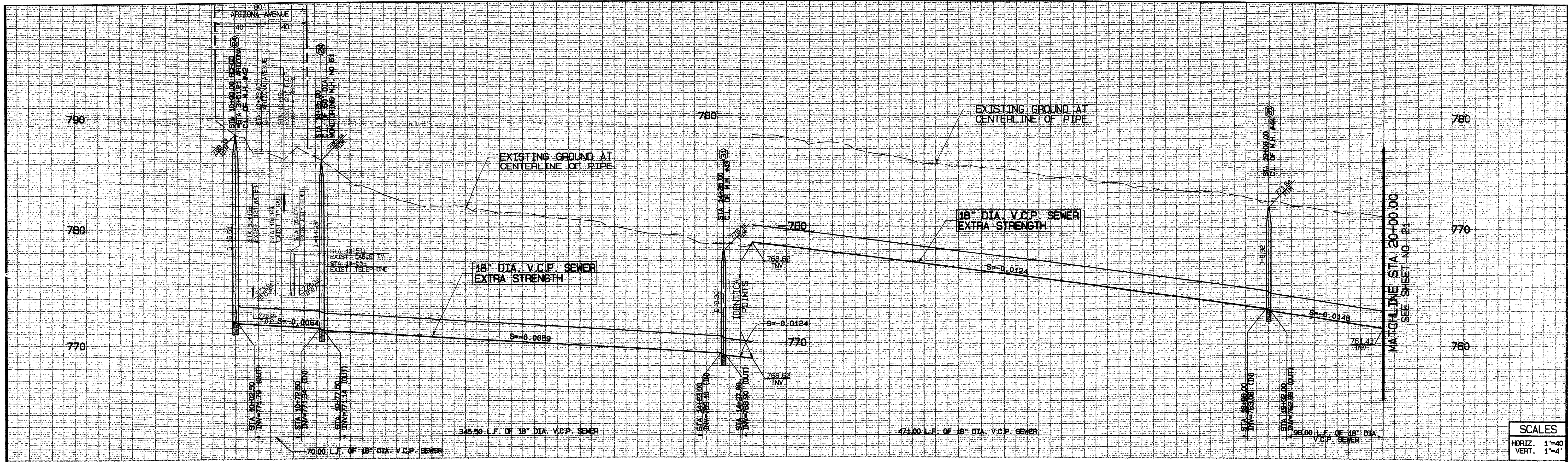
WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9764 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 ARIZONA AVENUE  
 STA 3+51.21 TO STA 10+19.00  
 SCALE: HORIZ. 1" = 40' VERT. 1" = 4'

DRAWING NO. **S-1813**  
 SHEET 19 OF 25 SHEETS

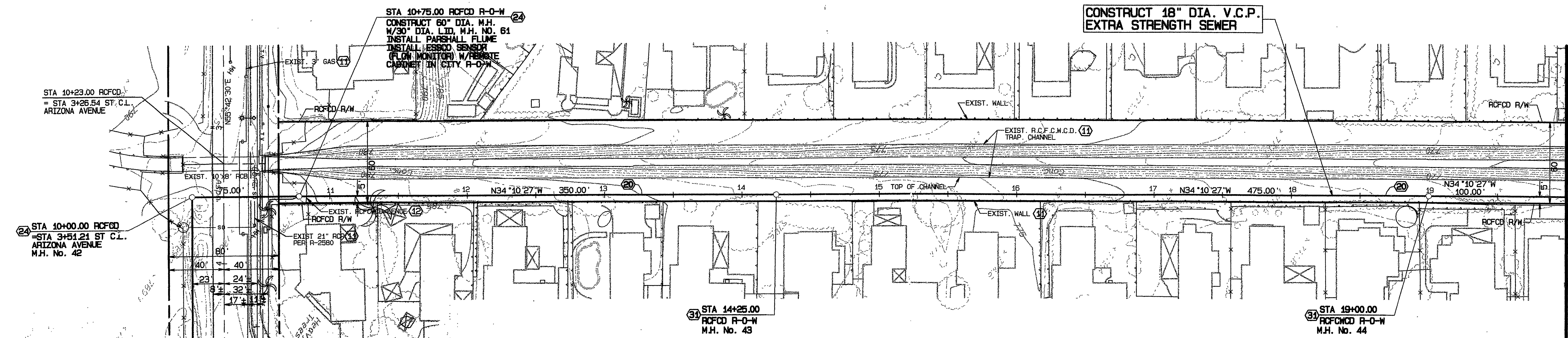
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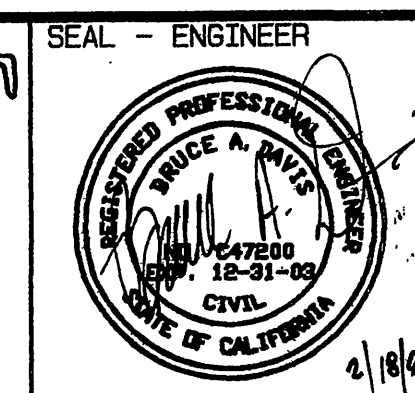
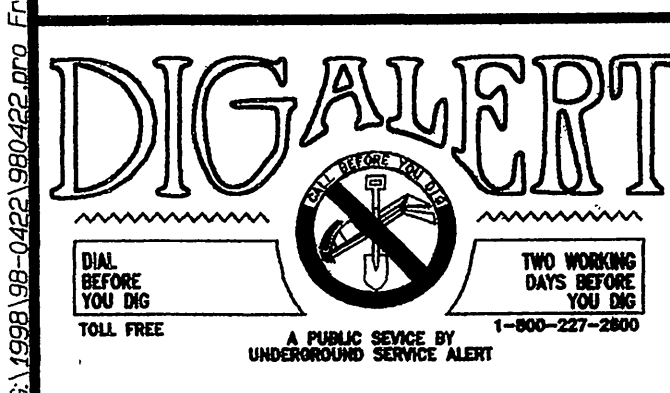
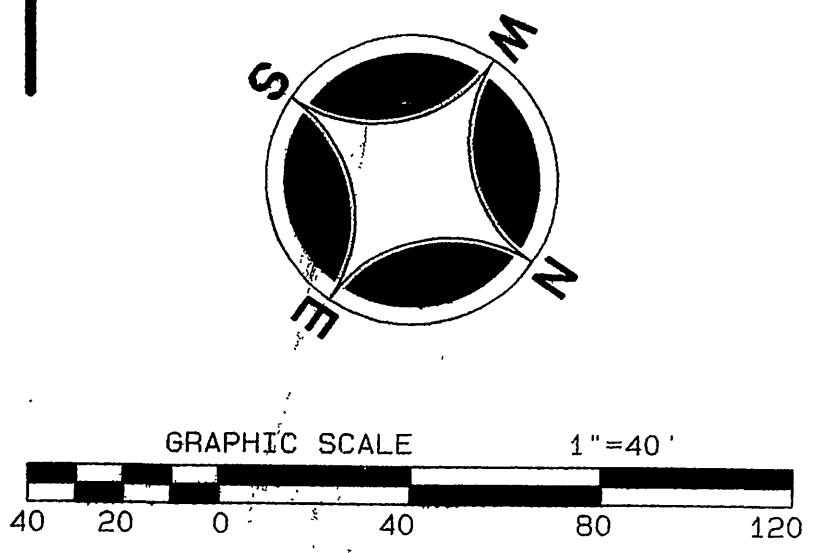
SCALES	
HORIZ.	1"=40'
VERT.	1"=4'

NOTES:  
 CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION



- SEWER CONSTRUCTION NOTES:**
- ① PROTECT EXISTING FACILITY IN PLACE.
  - ② REMOVE EXISTING FEATURE DURING CONSTRUCTION AND REPLACE UPON COMPLETION.
  - ③ CONSTRUCT 18" V.C.P. SEWERMAIN.
  - ④ CONSTRUCT 5' DIAMETER PRECAST CONCRETE MANHOLE PER MMWD STD. DWG. W-1070 AND W-1100.
  - ⑤ CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER MMWD STD. DWG. W-1070 AND W-1100. MODIFY MANHOLE TO BURY TOP 6" BELOW GRADE. ATTACH METAL MANHOLE MARKER TO CHANNEL FENCING TO LOCATE EACH BURIED MANHOLE.

**R.C.F.C.W.C.D. R-O-W**



**ALBERT A. WEBB**  
 ASSOCIATES  
 ENGINEERING CONSULTANTS  
 CIVIL ENGINEERS  
 3788 MCCRAY ST.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

NOTE:  
 THE DESIGN AND CONSTRUCTION OF THIS PROJECT AS WELL AS THE ACCURACY OF FIGURES AND THE RESPONSIBILITY OF THE DESIGN ENGINEER, SHALL BE LIMITED TO THE AGREEMENT OF THE INSPECTOR GENERAL, MATERIAL QUANTITIES AND SIZE OF FACILITIES AS THEY RELATE TO THE SURVEY DATA AND APPROVED MASTER PLAN. DELIVERY OF WATER TO THE IMPROVEMENTS SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION OF THE WORK PROPOSED AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
 CIVIL ENGINEER (LICENSE #40212) DATE 2/24/00  
 YOURS AFTER ONE YEAR FROM THIS DATE  
 BENCH MARK:  
 SEE SHEET 2

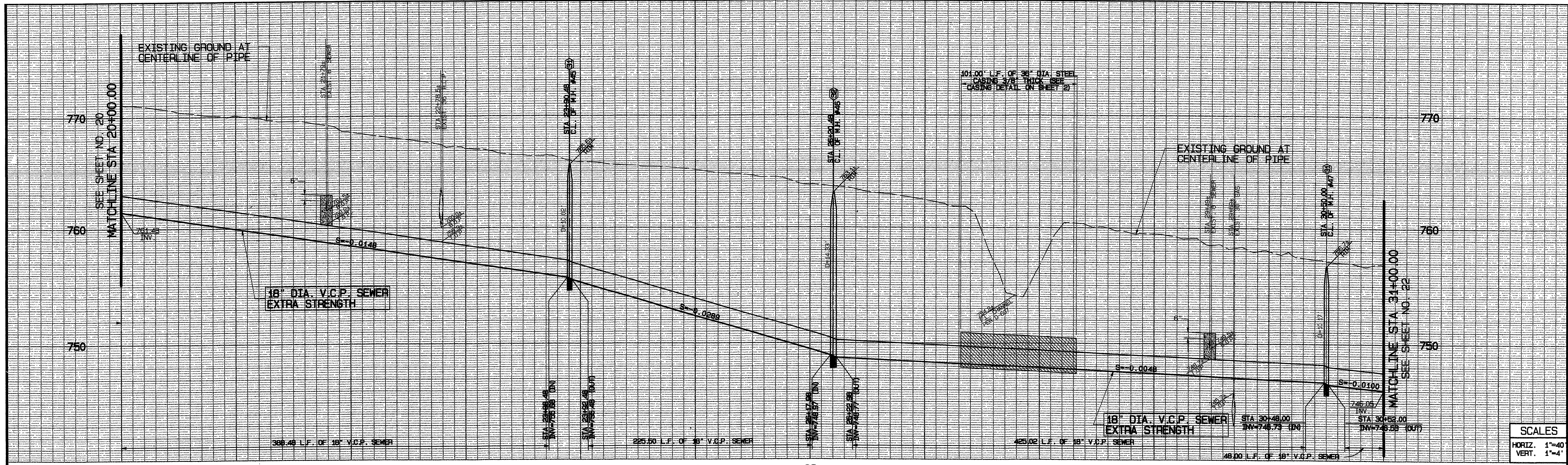
WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9764 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 R.C.F.C.W.C.D. R-O-W  
 STA 10+00.00 TO STA 20+00.00  
 SCALE: HORIZ: 1" = 40' VERT: 1" = 4'

DRAWING NO. **S-1813**  
 SHEET 20 OF 25 SHEETS

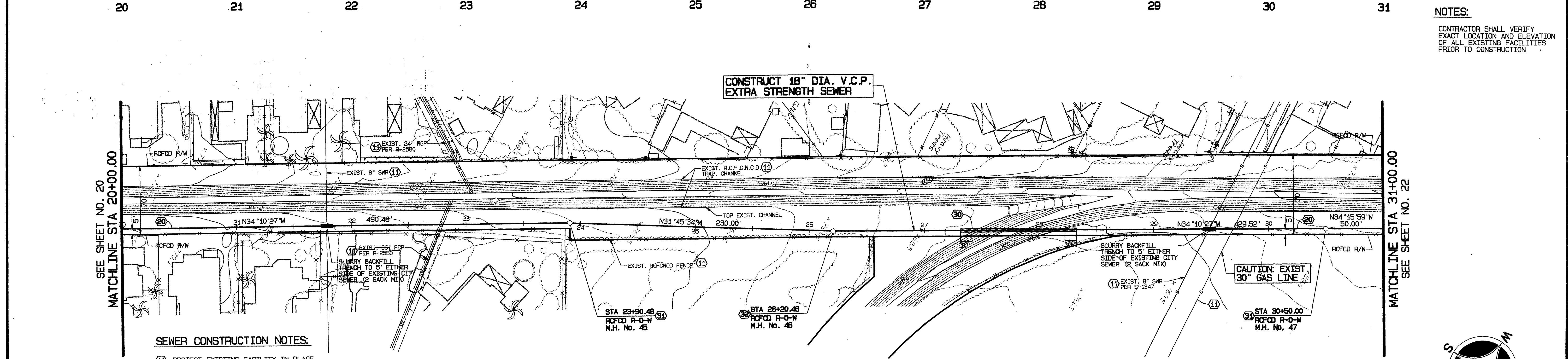
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**SCALES**  
 HORIZ. 1"=40'  
 VERT. 1"=4'

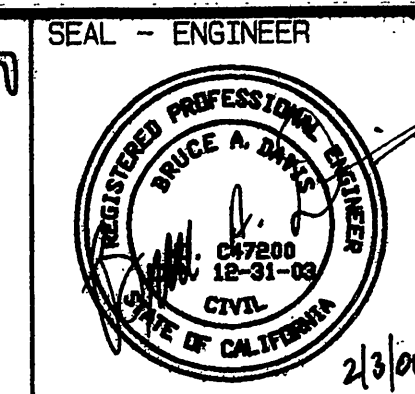
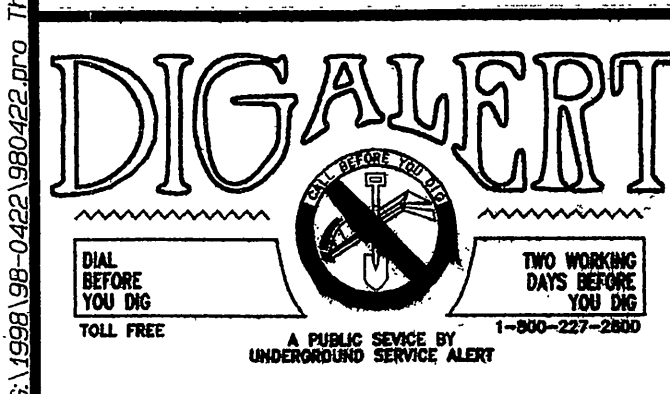
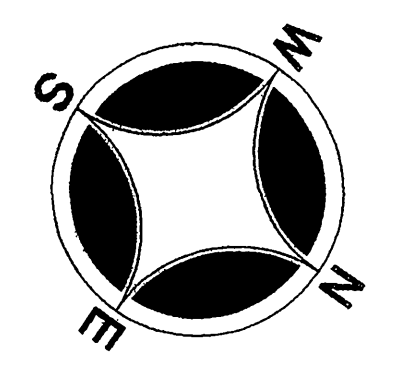
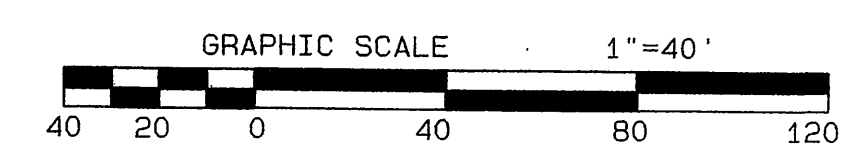
**NOTES:**  
 CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION



**SEWER CONSTRUCTION NOTES:**

- 1) PROTECT EXISTING FACILITY IN PLACE.
- 2) CONSTRUCT 18" V.C.P. SEWERMAIN.
- 3) CONTRACTOR SHALL EITHER TUNNEL AND INSTALL SEWER OR JACK AND BORE SEWER TO 4' EITHER SIDE OF THE EXISTING FACILITY, PER DETAIL ON SHEET NO. 2.
- 4) CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER WMD STD. DWG. N-1070 AND N-1100. MODIFY MANHOLE TO BURY TOP 6" BELOW GRADE. ATTACH METAL MANHOLE MARKER TO CHANNEL FENCING TO LOCATE EACH BURIED MANHOLE.
- 5) CONSTRUCT 5' DIAMETER PRECAST CONCRETE MANHOLE PER WMD STD. DWG. N-1070 AND N-1100. MODIFY MANHOLE TO BURY TOP 6" BELOW GRADE. ATTACH METAL MANHOLE MARKER TO CHANNEL FENCING TO LOCATE EACH BURIED MANHOLE.

**R.C.F.C.W.C.D. R-O-W**



**ALBERT A. WEBB**  
 ASSOCIATES  
 ENGINEERING CONSULTANTS  
 CIVIL ENGINEERS  
 3788 McCRAY ST.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

**NOTE:**  
 THE DESIGN AND CONSTRUCTION OF THIS PROJECT AS WELL AS THE ACCURACY OF FIGURES AND THE RESPONSIBILITY OF THE DESIGN ENGINEER, PLAN CHECK SERVICES BY W.M.W.D. WILL BE LIMITED TO THE ADEQUACY OF THE INFORMATION PROVIDED, MATERIALS, QUANTITIES AND SIZE OF FACILITIES AS THEY RELATE TO THE SURVEY DATA OR APPROVED MAJOR PLAN. DELIVERY OF WATER TO THE IMPROVEMENT DESIGN ON THESE PLANS IS DEPENDENT UPON COMPLETION OF THE PERMITS PROVIDED AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
*[Signature]* 2/24/00  
 DATE  
 VOID AFTER ONE YEAR FROM THIS DATE  
 BENCH MARK:  
 SEE SHEET 2

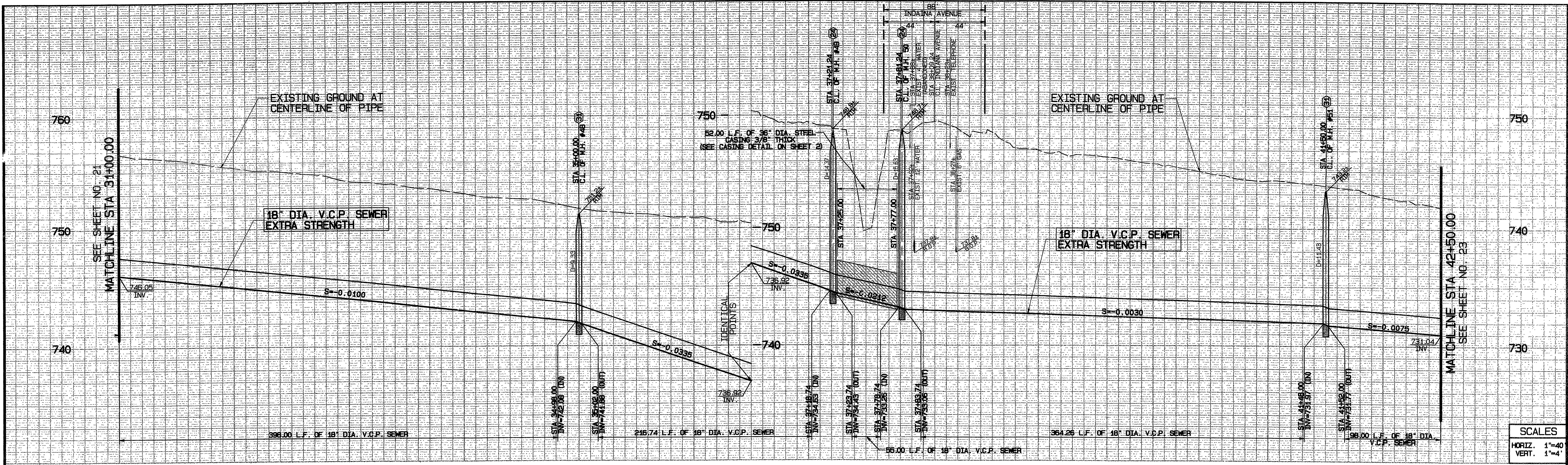
WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9784 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 R.C.F.C.W.C.D. R-O-W  
 STA 20+00.00 TO STA 31+00.00  
 SCALE: HORIZ: 1" = 40' VERT: 1" = 4'

DRAWING NO. **S-1813**  
 SHEET 21 OF 25 SHEETS

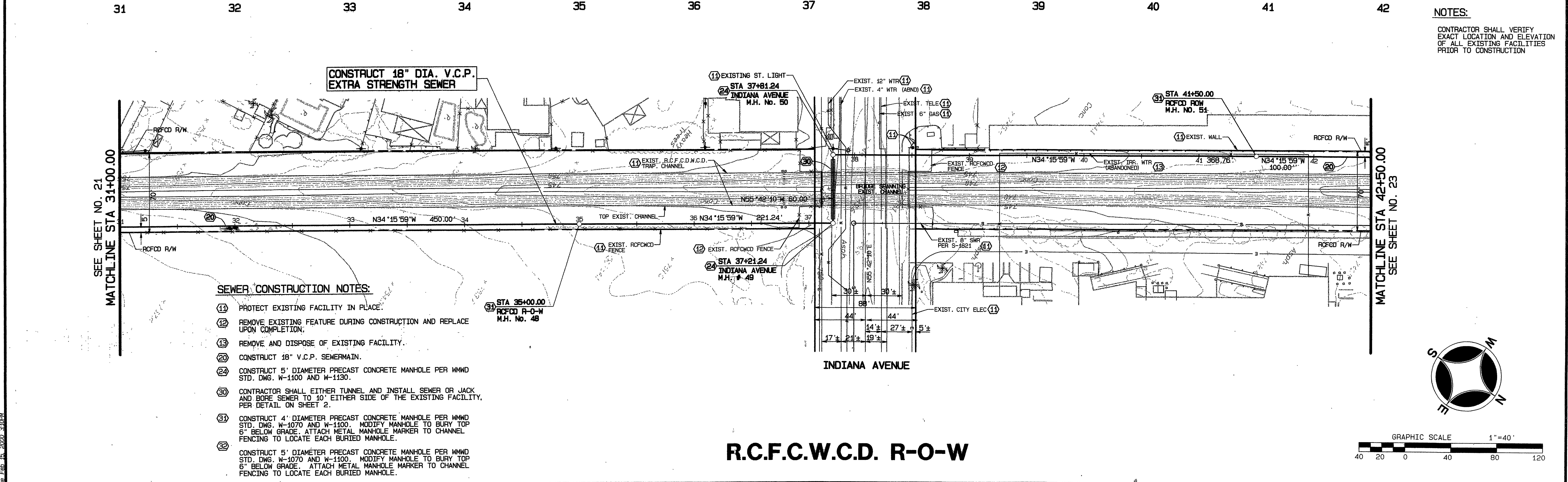
INDEXED 10-01-03 LFH





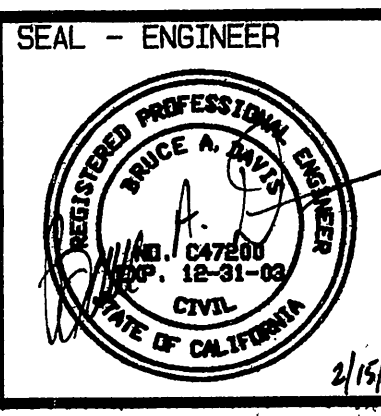
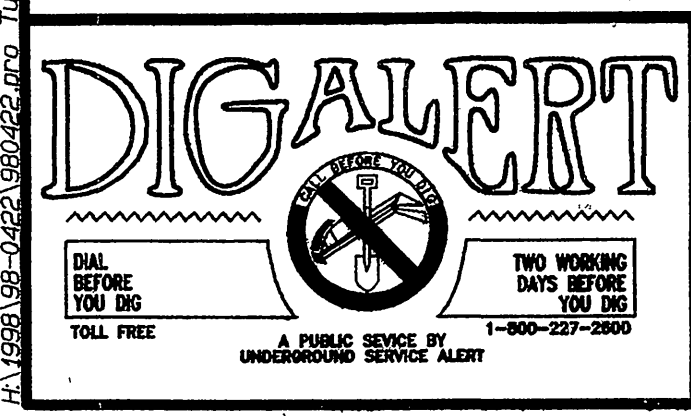
SCALES  
 HORIZ. 1"=40'  
 VERT. 1"=4'

NOTES:  
 CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION



- SEWER CONSTRUCTION NOTES:**
- 11 PROTECT EXISTING FACILITY IN PLACE.
  - 12 REMOVE EXISTING FEATURE DURING CONSTRUCTION AND REPLACE UPON COMPLETION.
  - 13 REMOVE AND DISPOSE OF EXISTING FACILITY.
  - 20 CONSTRUCT 18" V.C.P. SEWERMAIN.
  - 24 CONSTRUCT 5' DIAMETER PRECAST CONCRETE MANHOLE PER MWMD STD. DWS. W-1100 AND W-1130.
  - 30 CONTRACTOR SHALL EITHER TUNNEL AND INSTALL SEWER OR JACK AND BORE SEWER TO 10' EITHER SIDE OF THE EXISTING FACILITY, PER DETAIL ON SHEET 2.
  - 31 CONSTRUCT 4' DIAMETER PRECAST CONCRETE MANHOLE PER MWMD STD. DWS. W-1070 AND W-1100. MODIFY MANHOLE TO BURY TOP 6" BELOW GRADE. ATTACH METAL MANHOLE MARKER TO CHANNEL FENCING TO LOCATE EACH BURIED MANHOLE.
  - 32 CONSTRUCT 5' DIAMETER PRECAST CONCRETE MANHOLE PER MWMD STD. DWS. W-1070 AND W-1100. MODIFY MANHOLE TO BURY TOP 6" BELOW GRADE. ATTACH METAL MANHOLE MARKER TO CHANNEL FENCING TO LOCATE EACH BURIED MANHOLE.

**R.C.F.C.W.C.D. R-O-W**



ALBERT A. WEBB  
**WEBB ASSOCIATES**  
 ENGINEERING CONSULTANTS  
 CIVIL ENGINEERS  
 3788 McCRAY ST.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

NOTE:  
 THE DESIGN AND CONSTRUCTION OF THIS PROJECT AS WELL AS THE ACCURACY OF RECORDS ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER. FIELD CHECKS CONDUCTED BY FIELD PERSONNEL WILL BE LIMITED TO THE APPEARANCE OF THE SURFACE. FOUNDATIONS, MATERIALS, QUANTITIES AND SIZE OF MATERIALS AS THEY RELATE TO THE SURFACE THROUGH AN APPROVED MASTER PLAN. DELIVERY OF WATER TO THE IMPROVEMENTS SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION OF THE WORK PROPOSED AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
 [Signature] 2/24/00  
 DATE  
 VALID AFTER ONE YEAR FROM THIS DATE  
 BENCH MARK:  
 SEE SHEET 2

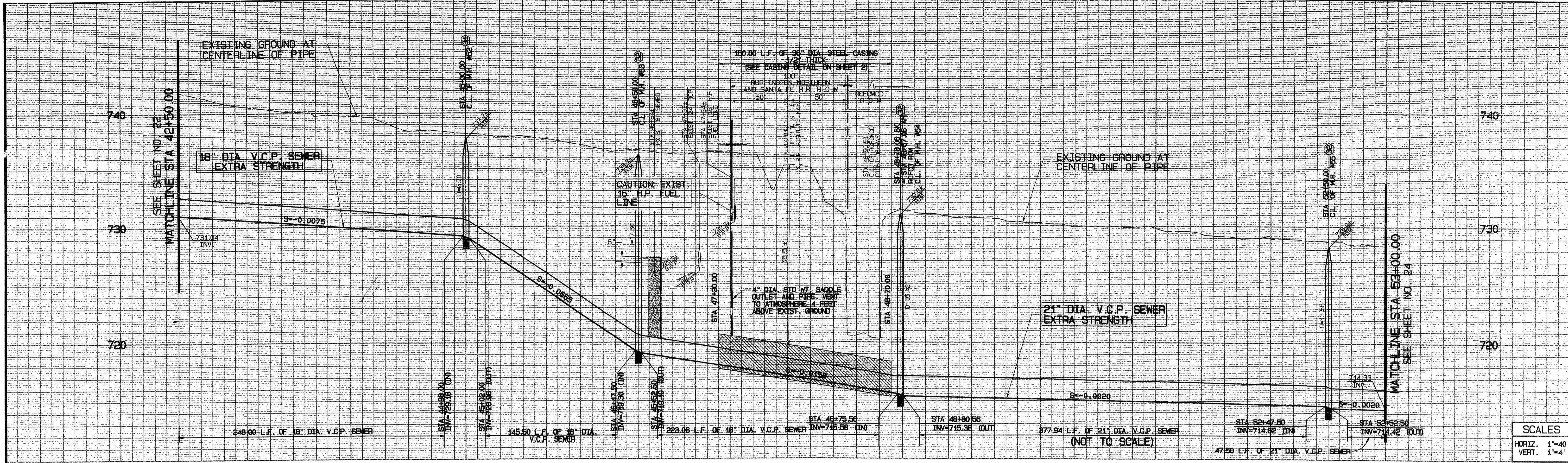
WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9784 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 R.C.F.C.W.C.D. R-O-W  
 STA 31+00.00 TO STA 42+50.00  
 SCALE: HORIZ. 1" = 40' VERT. 1" = 4'

DRAWING NO. **S-1813**  
 SHEET 22 OF 25 SHEETS

INDEXED 10-01-03 LFA

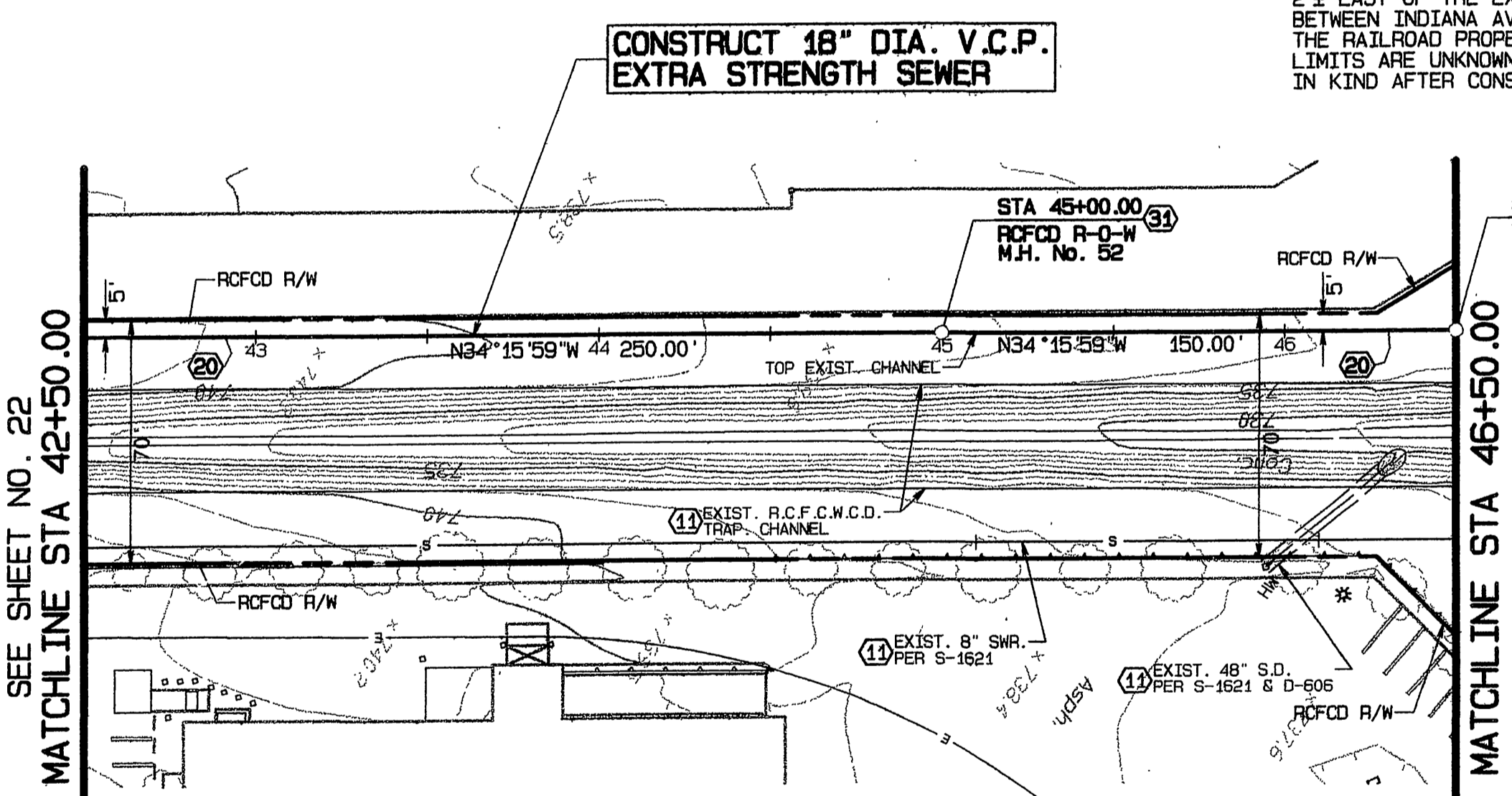




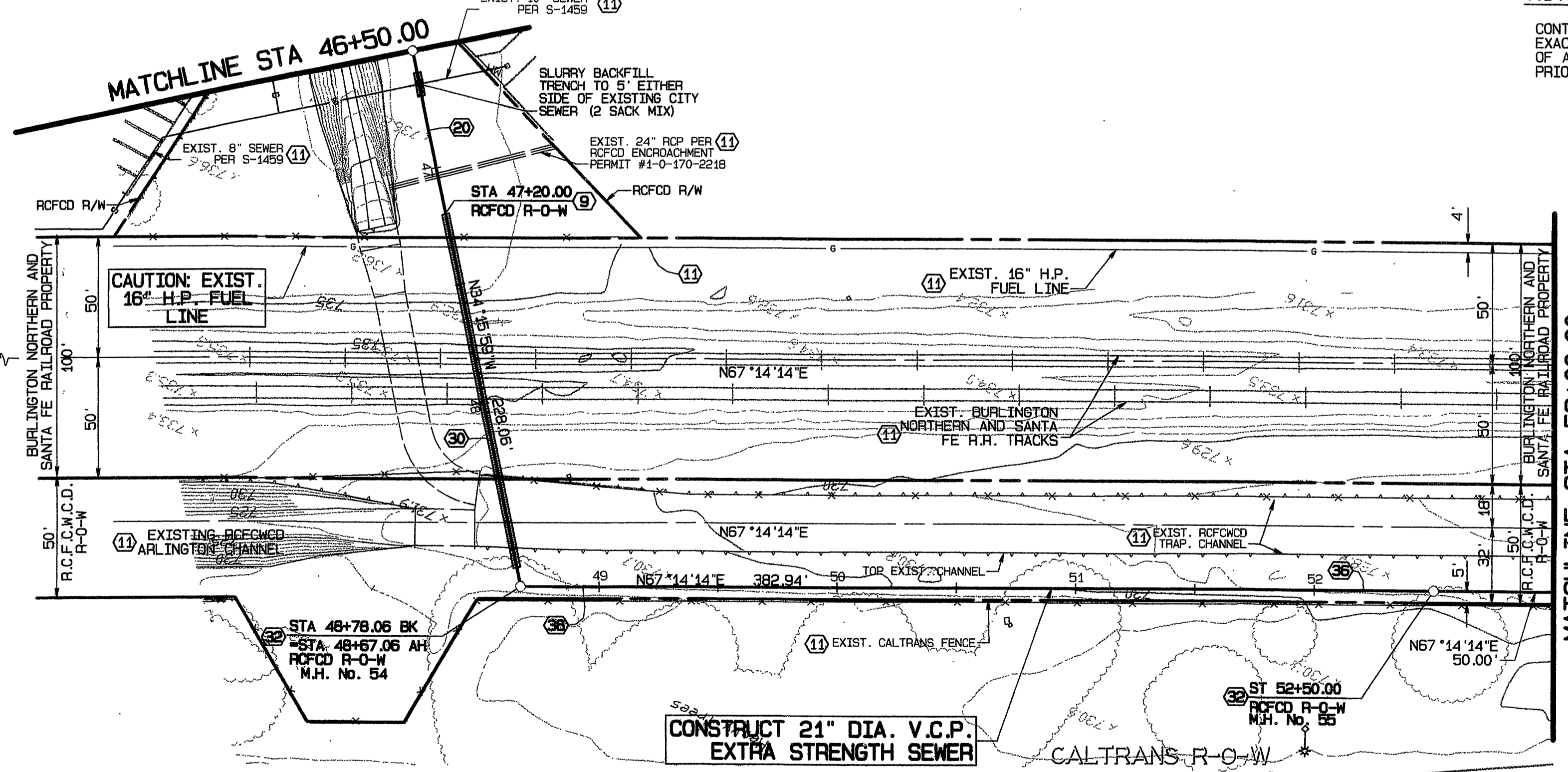
SCALES  
 HORIZ. 1"=40'  
 VERT. 1"=4'

NOTE:  
 AN EXISTING 4" OR 6" DIAMETER PERFORATED DRAIN PIPE EXISTS 2 ± EAST OF THE EXISTING WALL BETWEEN INDIANA AVENUE AND THE RAILROAD PROPERTY (EXACT LIMITS ARE UNKNOWN). REPLACE IN KIND AFTER CONSTRUCTION.

NOTES:  
 CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION



- SEWER CONSTRUCTION NOTES:**
- (9) CONSTRUCT CATHODIC PROTECTION TEST STATION PER WMMD STD. DWG W-0500.
  - (11) PROTECT EXISTING FACILITY IN PLACE.
  - (20) CONSTRUCT 18" V.C.P. SEWERMAIN.
  - (30) CONTRACTOR SHALL EITHER TUNNEL AND INSTALL 18" SEWER OR JACK AND BORE SEWER TO 40' EITHER SIDE OF THE EXISTING FACILITY, PER DETAIL ON SHEET NO. 2.
  - (31) CONSTRUCT 4" DIAMETER PRECAST CONCRETE MANHOLE PER WMMD STD. DWG W-1070 AND W-1100. MODIFY MANHOLE TO BURY TOP 6" BELOW GRADE. ATTACH METAL MANHOLE MARKER TO CHANNEL FENCINGS TO LOCATE EACH BURIED MANHOLE.
  - (32) CONSTRUCT 5" DIAMETER PRECAST CONCRETE MANHOLE PER WMMD STD. DWG W-1070 AND W-1100. MODIFY MANHOLE TO BURY TOP 6" BELOW GRADE. ATTACH METAL MANHOLE MARKER TO CHANNEL FENCINGS TO LOCATE EACH BURIED MANHOLE.
  - (35) CONSTRUCT 21" V.C.P. SEWERMAIN.



**R.C.F.C.W.C.D. R-O-W**

**DIGALERT**  
 CALL BEFORE YOU DIG  
 TOLL FREE  
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT  
 1-800-227-2800

SEAL - ENGINEER

**ALBERT A. WEBB ASSOCIATES**  
 CIVIL ENGINEERS  
 3788 McCRAY ST.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

NOTE:  
 THE DESIGN AND CONSTRUCTION OF THIS PROJECT AS WELL AS THE ACCURACY OF FIGURES ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER. PLAN CHECK SERVICES BY W.M.W.D. WILL BE LIMITED TO THE AGREEMENT OF THE PROJECT STANDARDS, MATERIALS, QUANTITIES AND SIZE OF FACILITIES AS THEY RELATE TO THE SERVICE DEMANDS OR APPROVED MAJOR PLAN. REFLECT OF WATER TO THE IMPROVEMENTS SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION OF THE FILING PROPOSED AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
  
 CIVIL ENGINEER REG. NO. 46810 DATE  
 VOID AFTER ONE YEAR FROM THIS DATE

WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9764 (BUS) (909) 780-3837 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 R.C.F.C.W.C.D. R-O-W  
 STA 42+50.00 TO STA 53+00.00  
 SCALE: HORIZ. 1" = 40' VERT. 1" = 4'

DRAWING NO. **S-1813**  
 SHEET 23 OF 25 SHEETS

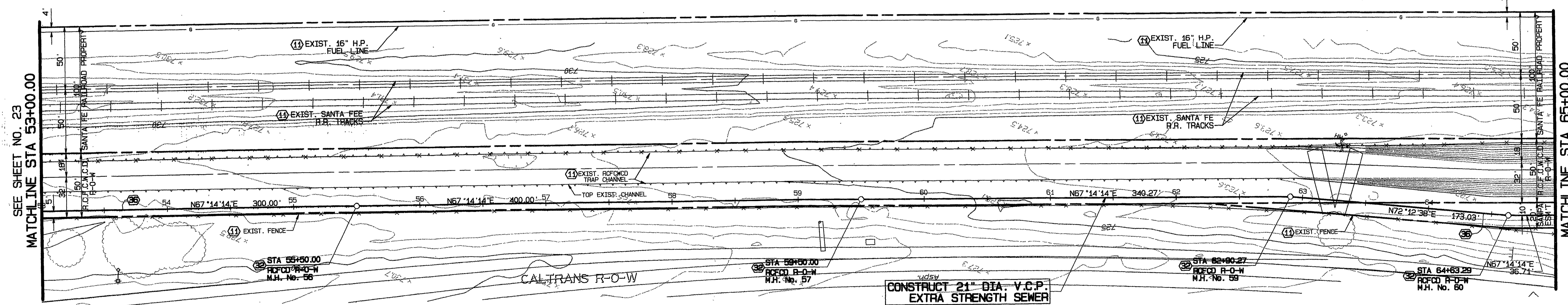
INDEXED 10-01-03 Lft





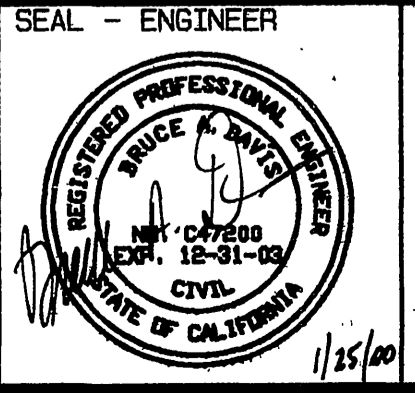
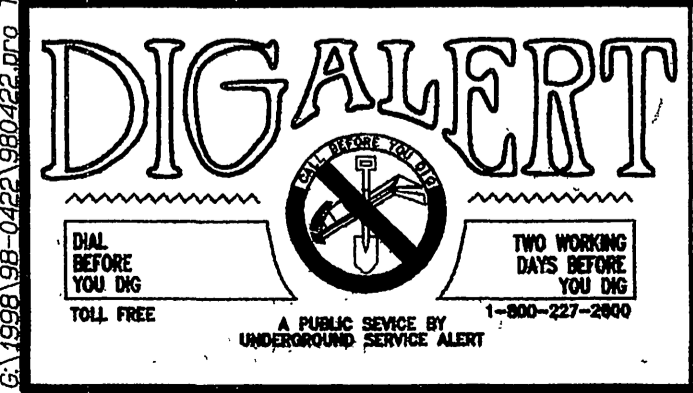
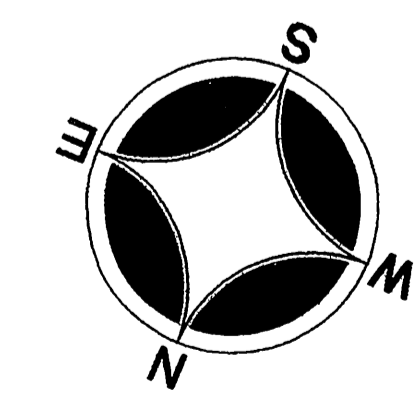
SCALES  
 HORIZ. 1"=40'  
 VERT. 1"=4'

NOTES:  
 CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION



- SEWER CONSTRUCTION NOTES:**
- (1) PROTECT EXISTING FACILITY IN PLACE.
  - (2) CONSTRUCT 5' DIAMETER PRECAST CONCRETE MANHOLE PER MWMD STD. DWG. W-1070 AND W-1100. MODIFY MANHOLE TO BURY TOP 6" BELOW GRADE. ATTACH METAL MANHOLE MARKER TO CHANNEL FENCING TO LOCATE EACH BURIED MANHOLE.
  - (3) CONSTRUCT 21" V.C.P. SEWERMAIN.

**R.C.F.C.W.C.D. R-O-W**



**ALBERT A. WEBB**  
 ASSOCIATES  
 ENGINEERING CONSULTANTS  
 CIVIL ENGINEERS  
 3788 McCRAY ST.  
 RIVERSIDE CA. 92506  
 PH. (909) 686-1070  
 FAX (909) 788-1256

**NOTE:**  
 THE DESIGN AND CONSTRUCTIBILITY OF THE PROJECT AS WELL AS THE ACCURACY OF RECORDS ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER. PLAN CHECKS CONDUCTED BY W.M.W.D. WILL BE LIMITED TO THE ABSENCE OF THE SUPERVISOR'S SIGNATURE, MATERIALS QUANTITIES AND USE OF FACILITIES AS THEY RELATE TO THE SERVICE DEMANDS OF APPROVED MASTER PLAN. DELIVERY OF WATER TO THE IMPROVEMENTS SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION OF THE FUNDING PROVIDED AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
*[Signature]* 2/24/00  
 DATE  
 YOUR TERM ONE YEAR FROM THIS DATE  
 BENCH MARK:  
 SEE SHEET 2

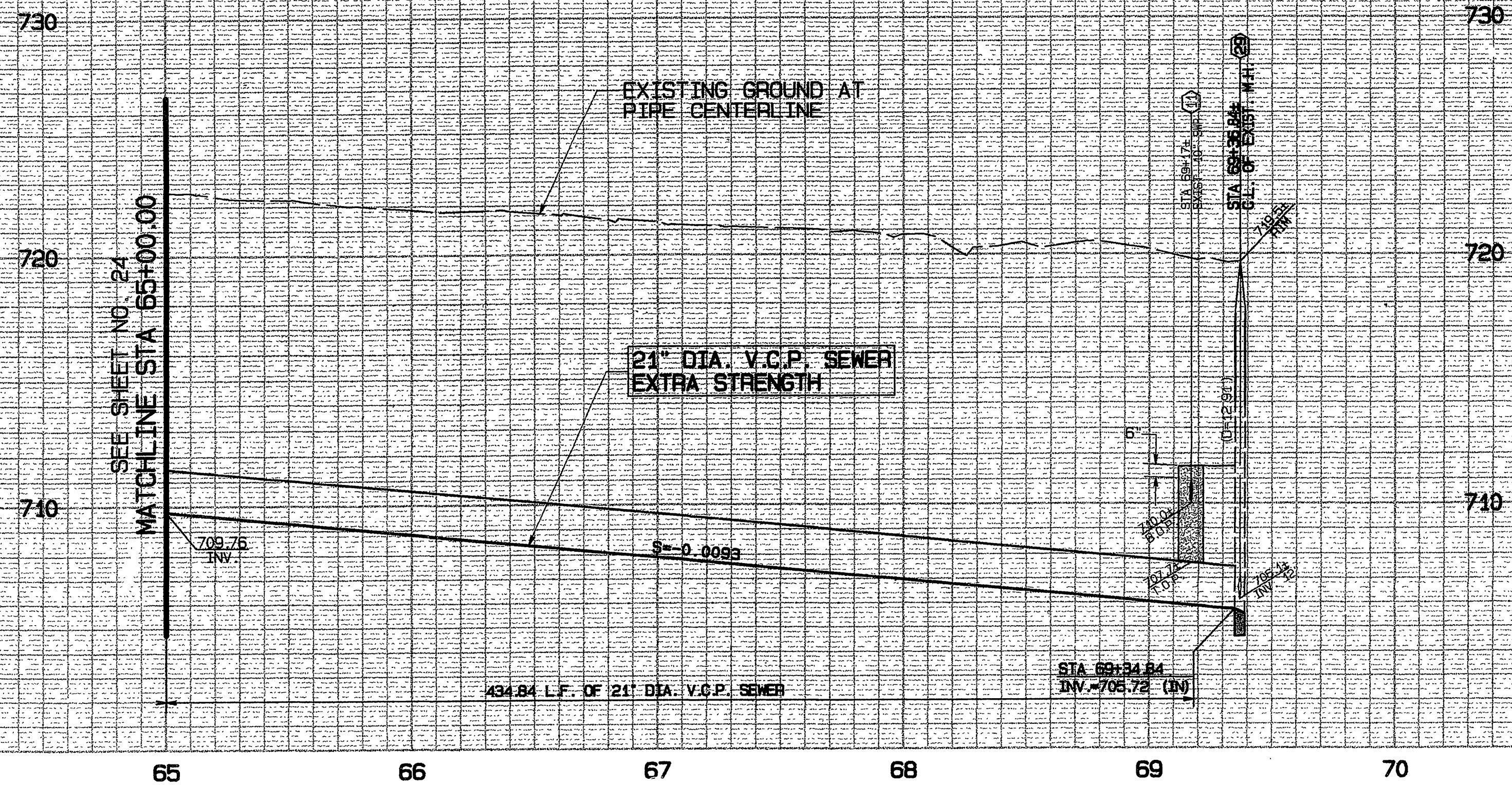
WESTERN MUNICIPAL WATER DISTRICT  
 P.O. BOX 5286  
 RIVERSIDE, CA. 92517-5286  
 450 ALESSANDRO BLVD  
 RIVERSIDE, CA. 92508  
 (909) 780-9784 (BUS) (909) 780-3897 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
 COUNTY OF RIVERSIDE  
 R.C.F.C.W.C.D. R-O-W  
 STA 53+00.00 TO STA 65+00.00  
 SCALE: HORIZ. 1" = 40' VERT. 1" = 4'

DRAWING NO. **S-1813**  
 SHEET 24 OF 25 SHEETS

INDEXED 10-01-03 fll





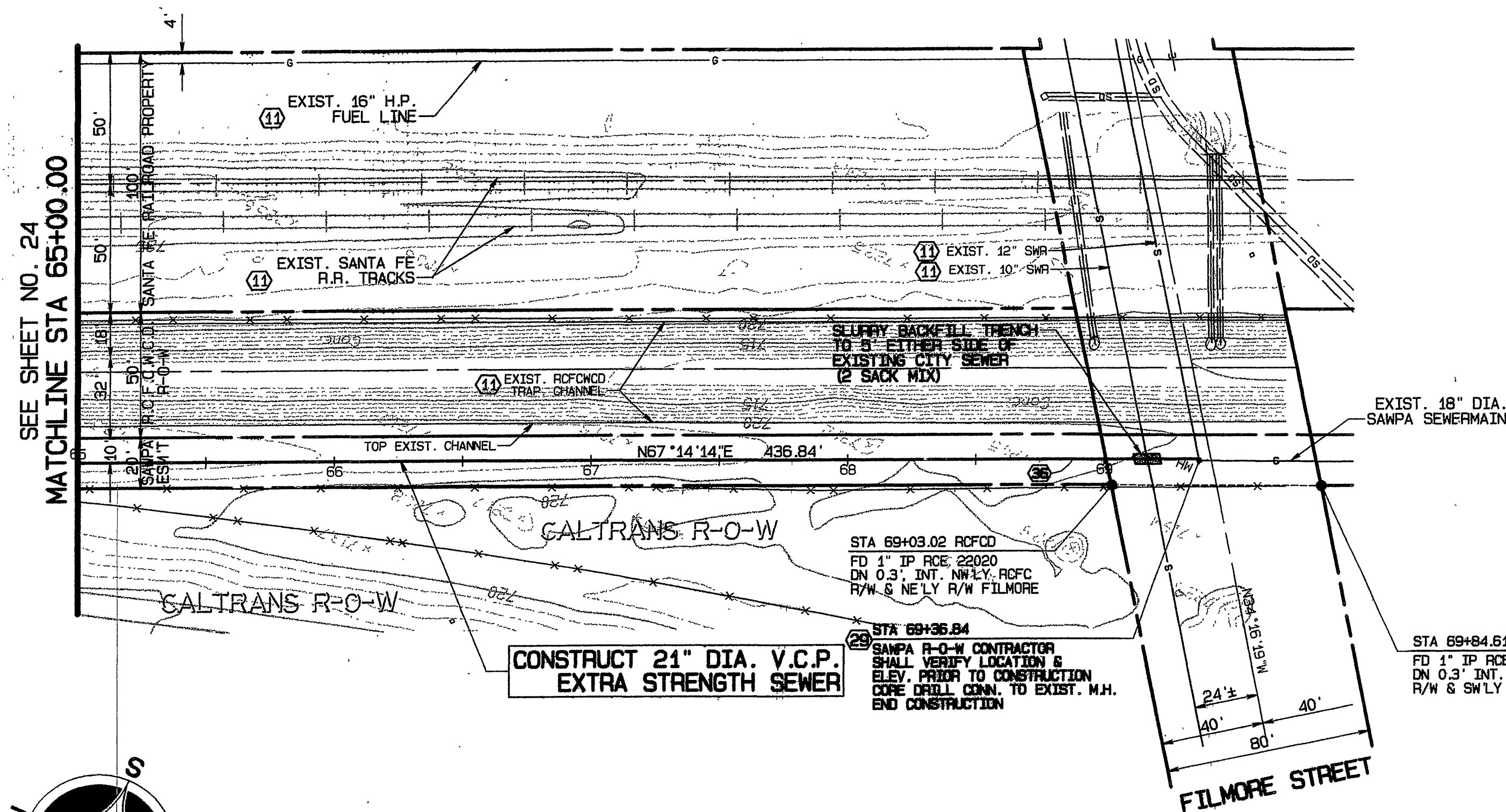
SCALES	
HORIZ.	1"=40'
VERT.	1"=4'

**NOTES:**

CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING FACILITIES PRIOR TO CONSTRUCTION

**SEWER CONSTRUCTION NOTES:**

- ①④ PROTECT EXISTING FACILITY IN PLACE.
- ②⑨ RECHANNEL EXISTING MANHOLE FOR NEW INFLOW.
- ③⑥ CONSTRUCT 21" V.C.P. SEWERMAIN.

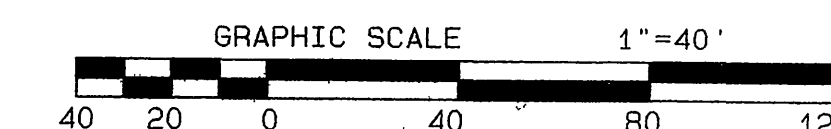


**CONSTRUCT 21" DIA. V.C.P. EXTRA STRENGTH SEWER**

②⑨ SAMPA R-O-W CONTRACTOR SHALL VERIFY LOCATION & ELEV. PRIOR TO CONSTRUCTION. CORE DRILL CORN. TO EXIST. M.H. END CONSTRUCTION

STA 69+84.61 RCFC  
FD 1" TP RCE 22020  
DN 0.3" INT. NWLY RCFC  
R/W & SWLY R/W FILMORE

**R.C.F.C.W.C.D. R-O-W**



**DIGALERT**  
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT  
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TOLL FREE 1-800-227-2800

SEAL - ENGINEER  
**WEBB ASSOCIATES**  
ENGINEERING CONSULTANTS  
2/15/04

**ALBERT A. WEBB ASSOCIATES**  
CIVIL ENGINEERS  
3788 McCRAV ST.  
RIVERSIDE CA. 92506  
PH. (909) 686-1070  
FAX. (909) 788-1256

**NOTE:**  
THE DESIGN AND CONSTRUCTIBILITY OF THIS PROJECT AS WELL AS THE ADEQUACY OF PROVISION ARE THE RESPONSIBILITY OF THE ENGINEER. PLAN CHECKS PROVIDED BY W.M.W.D. WILL BE LIMITED TO THE ADEQUACY OF THE SERVICE DEMANDS, MATERIALS, QUANTITIES AND SIZE OF FACILITIES AS THEY RELATE TO THE SERVICE DEMANDS AS APPROVED. WATER MAINS DEVIATE TO WATER TO THE IMPROVED SERVICE ON THESE PLANS IS DEPENDENT UPON COMPLETION OF THE WORK PROPOSED AS PART OF OTHER PHASES OF THIS TRACT AND/OR OTHER ADJACENT TRACTS.

MARK	REVISIONS	APPR.	DATE

APPROVED BY WESTERN MUNICIPAL WATER DISTRICT FOR CONSTRUCTION:  
*[Signature]* DATE 2/24/04  
CIVIL ENGINEER  
VALID ONE YEAR FROM THIS DATE  
BENCH MARK:  
SEE SHEET 2

WESTERN MUNICIPAL WATER DISTRICT  
P.O. BOX 5286  
RIVERSIDE, CA. 92517-5286  
450 ALESSANDRO BLVD  
RIVERSIDE, CA. 92508  
(909) 780-9764 (BUS) (909) 780-3637 (FAX)

WESTERN MUNICIPAL WATER DISTRICT  
**LA SIERRA TRUNK SEWER**  
COUNTY OF RIVERSIDE  
R.C.F.C.W.C.D. R-O-W  
STA 65+00.00 TO STA 69+36.84

DRAWING NO. **S-1813**  
SHEET 25 OF 25 SHEETS