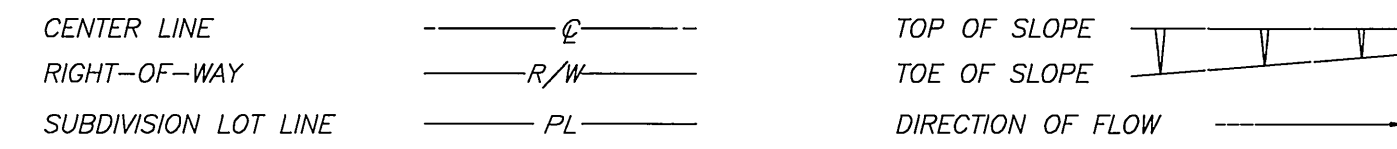


CONSTRUCTION LEGEND



SPECIFIC CONSTRUCTION NOTES

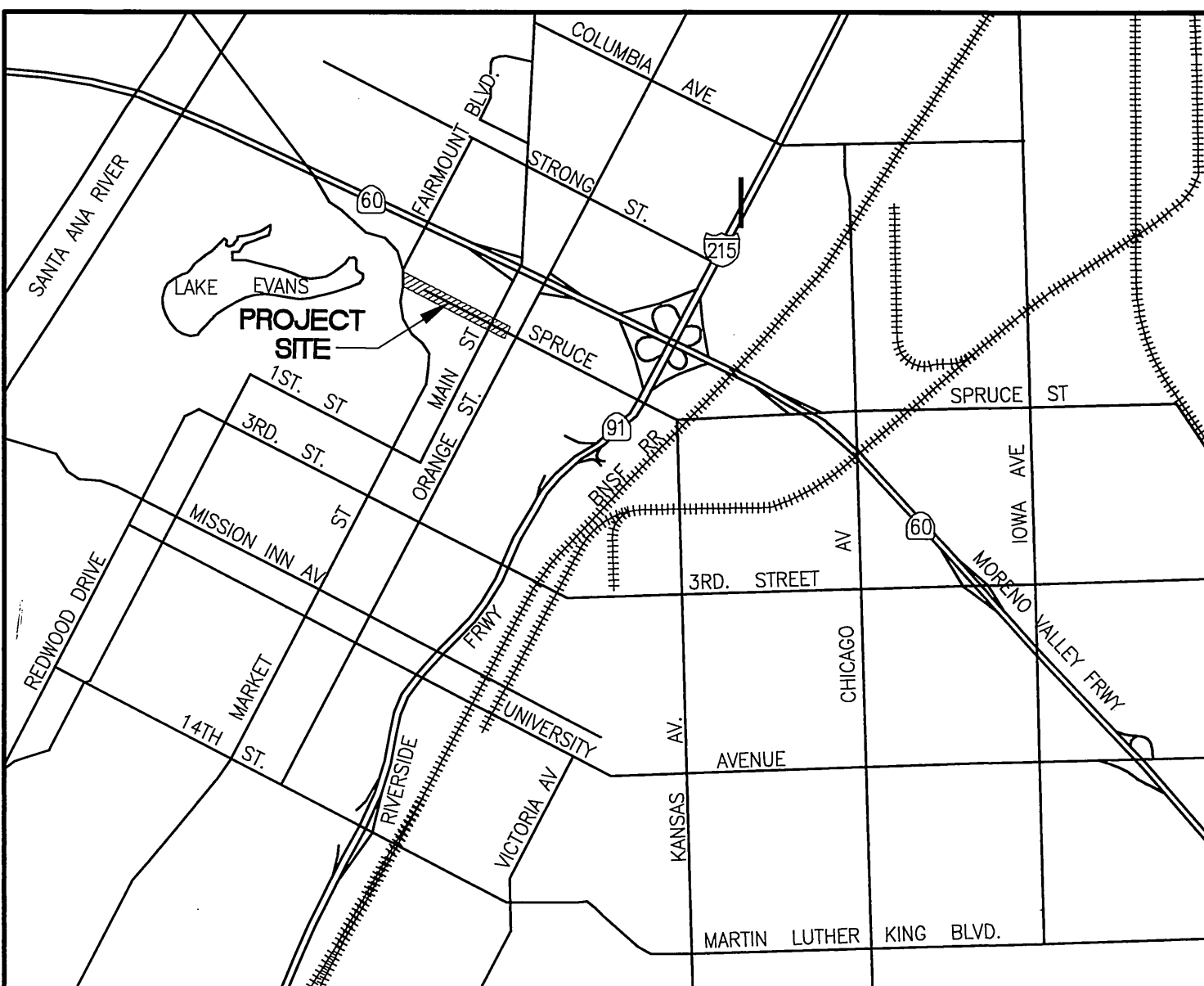
- NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY. UNLESS MODIFICATIONS ARE NOTED ON THE PLAN OR COVER SHEET, ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.
- 1 CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER STD. DWG. 562.
- 2 ABANDON EXISTING SEWER IN PLACE
- 3 EXISTING SEWER TO REMAIN IN SERVICE
- 4 JACK AND BORE 42" STEEL CASING W/24" VCP CARRIER PIPE AND SKID PER CASING DETAIL, SHEET 4 (ALTERNATE # 1). JACK AND BORE 36" STEEL CASING W/24" MICROTUNNELING VCP CARRIER PIPE AND SKID PER CASING DETAIL SHEET 4 (ALTERNATE # 2).

GENERAL CONSTRUCTION NOTES

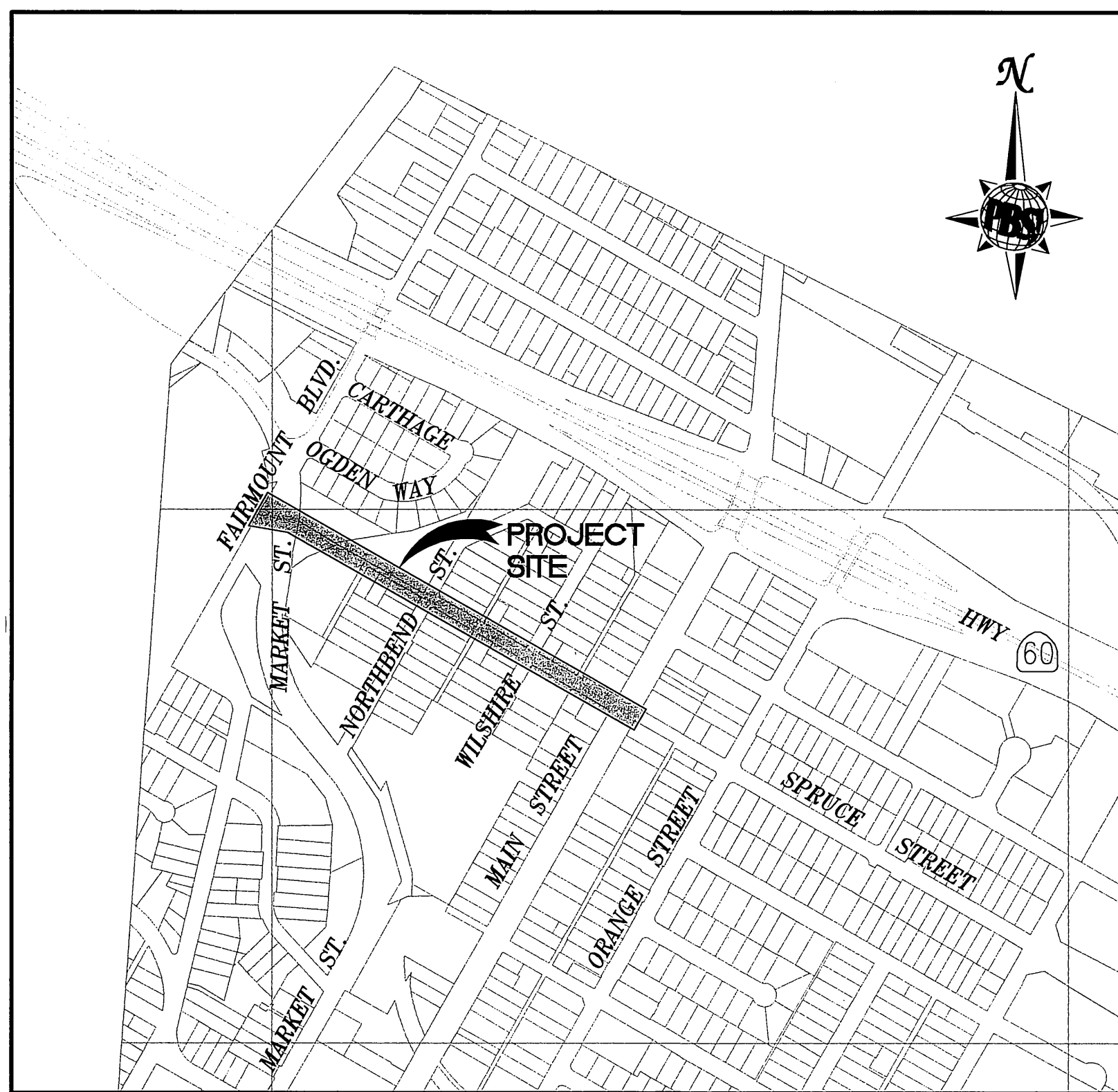
- 1 EXISTING UTILITIES SHOWN ON THIS PLAN ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN. IF THE COVER OF A UTILITY IS KNOWN, IT IS SHOWN IN THE PROFILE. UTILITIES SHOWN IN THE PROFILE AS INDICATES THAT THE COVER IS KNOWN, BUT THE UTILITY IS NOT EXPECTED TO CONFLICT WITH THE PROPOSED IMPROVEMENTS.
- 2 ALL ELEVATIONS, SHOWN ON THE PLANS, SHALL BE STAKED IN THE FIELD.
- 3 PRIME CONTRACTORS, BIDDING THIS WORK, SHALL HAVE A CLASS A, C-34 OR C-42 LICENSE.
- 4 CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE STANDARD DWGS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2000 EDITION.
- 5 PRIOR TO ISSUANCE OF ANY GRADE SHEETS, ALL POTENTIALLY CONFLICTING UTILITIES SHALL BE EXPOSED AND SURVEYED, FOR PRECISE LOCATION BY CITY SURVEYORS, IN ORDER TO MINIMIZE CONSTRUCTION PROBLEMS.
- 6 ALL EXISTING SANITARY SEWER LATERALS SHALL BE CONNECTED TO THE EXISTING LATERALS IN THE SEWER MAIN TRENCH EXCAVATION LIMITS WITH AN APPROVED REPAIR COUPLING.

INDEX SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ABBREVIATIONS
3	PLAN AND PROFILE - STA. 10+00 TO STA. 22+00
4	PLAN AND PROFILE - STA. 22+00 TO STA. 25+38.09

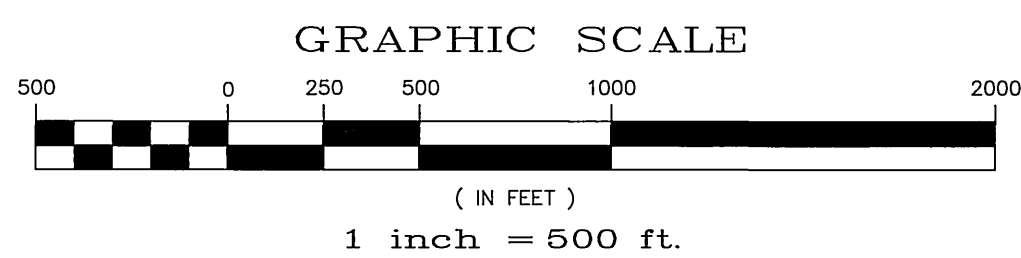


VICINITY MAP
N.T.S.



PROJECT LOCATION MAP
SCALE 1" = 500'

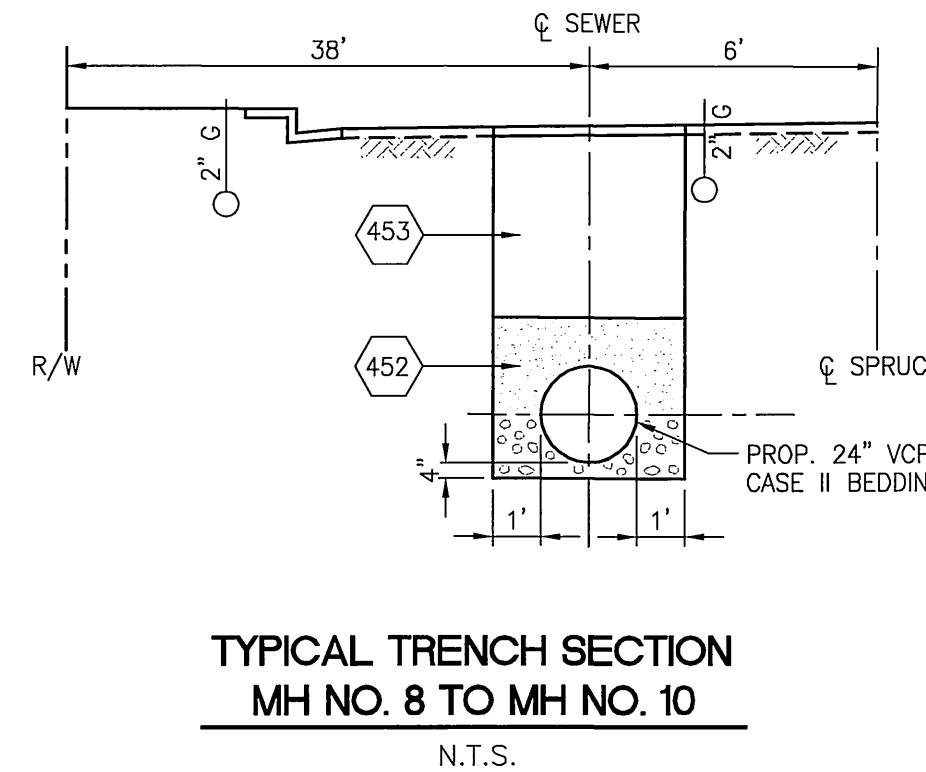
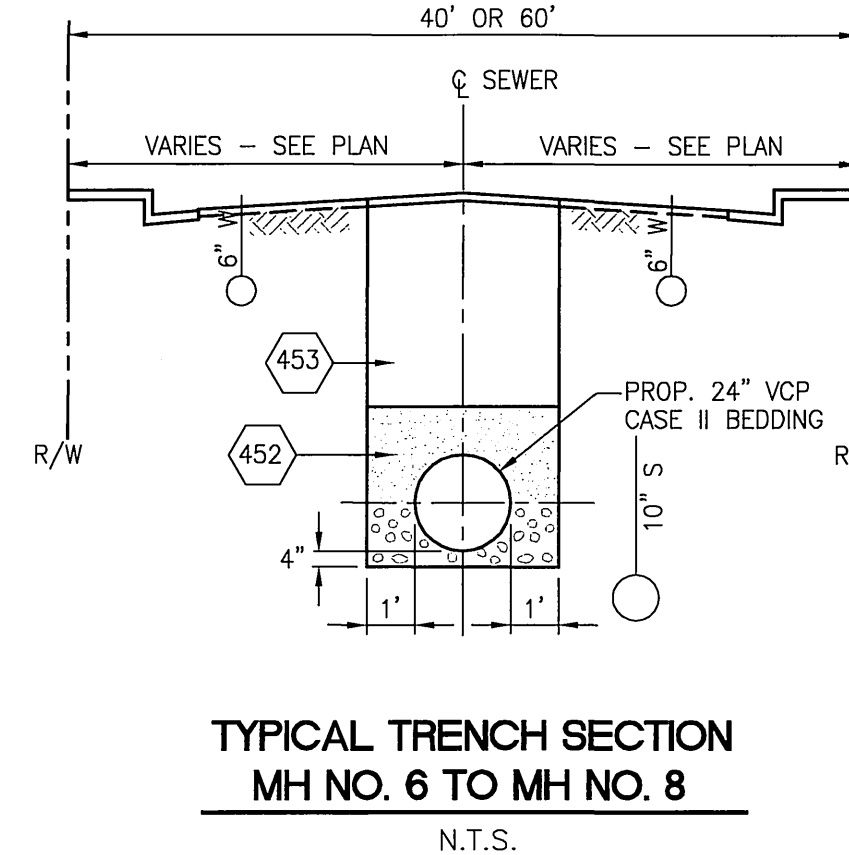
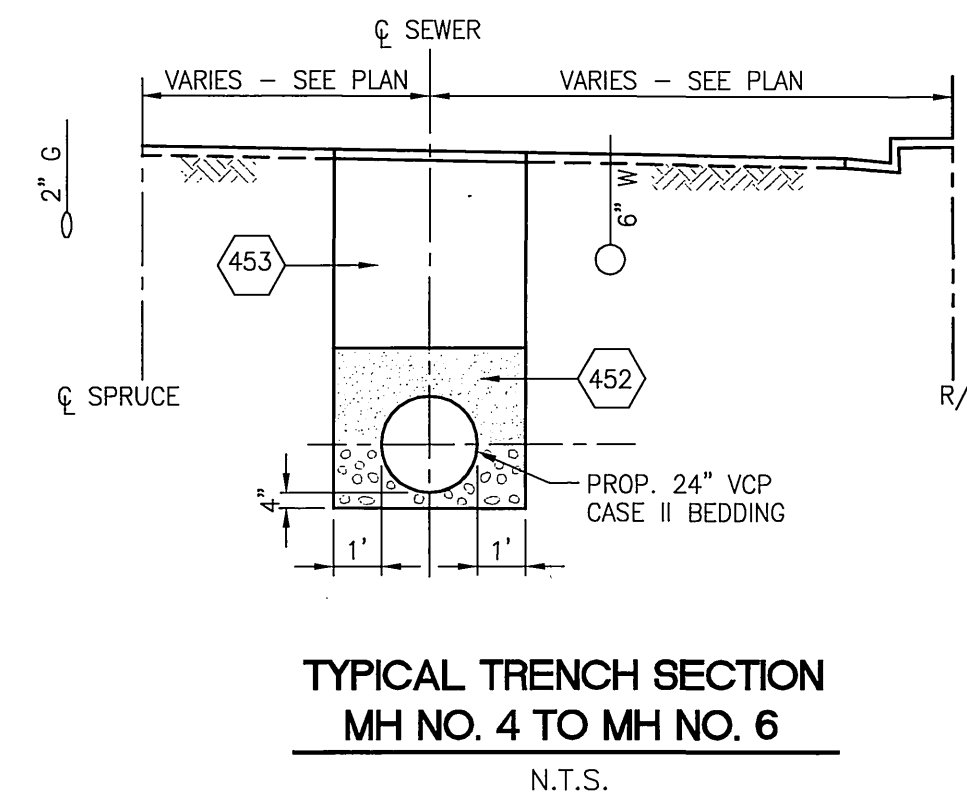
FOR EXISTING IMPROVEMENTS SEE:
631, 756, 756A, 1054, S-257, D-365, D-631,
S-371, R-67.



RIVERSIDE CALIFORNIA

PUBLIC WORKS DEPARTMENT

SPRUCE STREET TRUNK SEWER
FAIRMOUNT BOULEVARD TO MAIN STREET



GENERAL NOTES

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT OF WAY IN ACCORDANCE WITH THE PROVISIONS OF THE LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
2. JOINTS IN VITRIFIED CLAY PIPE SEWERS SHALL CONFORM TO A.S.T.M. STANDARD C-425-60T, OR THE LATEST REVISION THEREOF AND SHALL BE TYPE "G" PER THE STANDARD SPECIFICATIONS, 2000 EDITION.
3. PIPE SHALL BE BEDDED PER CASE III, STANDARD DRAWING NO. 452, UNLESS OTHERWISE SPECIFIED ON PLAN.
4. LOCATION OF WYES AND LATERALS TO BE DETERMINED IN THE FIELD.
5. ALL LATERALS TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING NO. 562. STUBS SHALL BE PLUGGED AND CAPPED.
6. MANHOLE FRAMES AND COVERS TO BE SET TO EXISTING PAVEMENT GRADES.
7. NEW LATERALS ARE TO BE 4" AND EXTENDED TO PROPERTY LINE.
8. PRIOR TO CONSTRUCTION OF SEWER, CONTRACTOR IS TO EXPOSE EXISTING SEWER AND CONTACT ENGINEER FOR VERIFICATION OF EXISTING ELEVATIONS.
9. EXTEND (OR SHORTEN) LATERALS TO CONNECT WITH NEW ALIGNMENT.
10. CONTRACTOR IS TO MAINTAIN SEWER SERVICE ON ALL LATERALS AFFECTED.
11. ACCESS TO ADJOINING PROPERTIES SHALL BE PROVIDED AT ALL TIMES.
12. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AND SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE THE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORDED OR NOT SHOWN ON THESE PLANS.
13. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING PLANS FOR APPROVAL BY THE CITY.
14. CONTRACTOR SHALL SUBMIT A SEWER BYPASS PUMPING PLAN IN ACCORDANCE WITH SECTION 2-5 OF THE STANDARD SPECIFICATIONS.

EXISTING UNDERGROUND & TOPOGRAPHY LEGEND

EXISTING UNDERGROUND UTILITIES

SANITARY SEWER	8"S	TELEPHONE CONDUIT	T
WATER LINE	6"W	ELECTRICAL CONDUIT (UNDERGROUND)	E
STORM DRAIN	24"SD	ELECTROLIER LIGHTING CONDUIT (UNDERGROUND)	ELC
GAS LINE	3"G	TRAFFIC SIGNAL	SIG
ABANDONED UTILITY	6"G(ABAN'D.)	FIRE ALARM	F
		ELECTRICAL POWER (OVERHEAD)	OHP

EXISTING TOPOGRAPHY

	BLOCK WALL		POLE & GUY ANCHOR		PEDESTRIAN PUSH BUTTON
	BOARD FENCE		POWER POLE		RAILROAD TRACKS
	WIRE FENCE		TELEPHONE POLE		RAILROAD SIGN
	CHAIN LINK FENCE		TELEPHONE RISER		RAILROAD SIGNAL
	SANITARY SEWER M.H.		JOINT USE POLE		TRAFFIC SIGNAL
	SANITARY SEWER CLEANOUT		PULL BOX		TRAFFIC SIGNAL ON MAST ARM
	STORM DRAIN M.H.		TRAFFIC SIGN		TRAFFIC SIGNAL CONTROLLER
	IRRIGATION WEIR		PARKING METER		TRAFFIC SIGNAL PRESSURE DETECTOR
	WATER M.H.		FIRE ALARM BOX		TRAFFIC SIGNAL LOOP DETECTOR
	GAS M.H.		STREET NAME SIGN		STREET LIGHT & TRAFFIC SIGNAL ON MAST ARM
	ELECTRIC M.H.		GAS METER		STREET LIGHT (UPRIGHT)
	TELEPHONE M.H.		MAIL BOX		STREET LIGHT ON MAST ARM
	WATER METER		AIR VALVE		FAUCET
	FIRE HYDRANT		AIR VENT		WALK-DON'T WALK PEDESTRIAN SIGNAL
	SPRINKLER HEAD		BUS STOP SIGN		ETS
	WATER VALVE		BLOW-OFF VALVE		ELECTROLYSIS TEST STATION
	AIR VALVE		IRRIGATION STAND PIPE		WHEEL STOP
	WALK-DON'T WALK PEDESTRIAN SIGNAL		CONCRETE		ASPHALT
	STEEL POST		BUILDING		EDGE OF PAVEMENT
	WOOD POST				

NOTICE TO CONTRACTORS

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURE TO PROTECT ANY UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

PRIVATE AND PUBLIC UTILITIES, IF SHOWN REFLECT AVAILABLE RECORD DATA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL LINES AFFECTING THIS WORK AND FOR ANY DAMAGE OR PROTECTION TO THESE LINES. PRIOR TO STARTING CONSTRUCTION OF THIS PROJECT, THE CONTRACTOR SHALL UNCOVER ALL EXISTING UTILITY LINES AFFECTING THIS WORK, AND A PRIVATE ENGINEER SHALL VERIFY THE JOINT ELEVATIONS OF THE EXISTING SEWER WHEN MAKING CONNECTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATIONS SO THAT ALL EMPLOYEES ARE PROVIDED A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUBCONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR AND WITH THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS "CONSTRUCTION SAFETY ORDERS".

* AS-BUILT \approx 1/14/2004

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PBSJ
3610 Central Avenue
Suite 500
Riverside, CA 92506
Tel: (909) 341-6380
Fax: (909) 341-6389

PLANS PREPARED UNDER SUPERVISION OF

Matthew H. Litchfield
MATTHEW H. LITCHFIELD
R.P.E. No. C58079
DATE 5-21-03
Exp 6-30-06

PROFESSIONAL ENGINEER
No. C58079
Exp. 6/30/06
CIVIL
STATE OF CALIFORNIA
5-21-03

DESIGNED BY	MHL	DRAWN BY	IS	CHECKED BY	LAA
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CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	<i>Alan Beard</i>	5/23/03	CITY ENGINEER
INSPECTION SECTION			
SURVEYOR			

SPRUCE STREET
TRUNK SEWER
FAIRMOUNT BLVD. TO MAIN ST.

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

ACT. NO. 9713523203-440301XX

S-1787

SHEET 1 OF 4

FILE NO.

INDEXED 5-27-03

- A -	AT ANCHOR BOLT ABAN ABANDON ABC AGGREGATE BASE COURSE ABS ABSOLUTE ABUT ABUTMENT ABV ABOVE AC ASPHALTIC CONCRETE ACKV AUTOMATIC CHECK VALVE ACP ASBESTOS CEMENT PIPE ACS ACCESS AD AREA DRAIN ADPT ADAPTOR ADDL ADDITIONAL ADDM ADDENDUM ADJ ADJUSTABLE AGGR/AGG AGGREGATE AHD AHEAD AL ALUMINUM ALT ALTERNATE AMT AMOUNT & AND ANSI AMERICAN NATIONAL STANDARDS INSTITUTE ANT ANTENNA AP ACCESS PANEL APN ASSESSOR PARCEL NUMBER APPROX APPROXIMATE APPVD APPROVED ASPH ASPHALT ASSN ASSOCIATION ASSY ASSEMBLY ASTM AMERICAN SOCIETY OF TESTING MATERIALS AUX AUXILIARY AV AIR VENT/AIR VALVE AVAR AIR VACUUM AIR RELEASE VALVE AVE AVENUE AWG AMERICAN WIRE GAUGE AWWA AMERICAN WATER WORKS ASSOCIATION	- C - (CONT.) COA CITY OF ANAHEIM COL COLUMN COMB COMBINATION COMM COMMUNICATION COMPL COMPLETE CON CONCENTRIC COMP COMPRESSION/COMPACTION CONC CONCRETE/CONCENTRIC COND CONDUIT CONN CONNECTION CONST CONSTRUCTION CONT CONTINUE OR CONTINUOUS CONTR CONTRACTOR COORD COORDINATE COR CORNER CORP STOP CORPORATION STOP COV PL COVER PLATE CPLG COUPLING CPVC CHLORINATED POLYVINYL CHLORIDE PIPE CTS COPPER TUBE SIZE CTR CENTER CTV CABLE TELEVISION CU CUBIC/COPPER CUST CUSTOMER CV CONTROL VALVE CW CLOCKWISE CY CUBIC YARD CYL CYLINDER	- F - (CONT.) FLR FLOOR FMCT FLOW METER COMPOUND TORRENT FMH FLEXIBLE METAL HOSE FN FENCE FND FOUND FO FIBER OPTIC FOC FACE OF CURB FOW FACE OF WALL FPC FLEXIBLE PIPE COUPLING FPM FEET PER MINUTE FPS FEET PER SECOND FPT FEMALE PIPE THREAD FREQ FREQUENCY FRP FIRE RETARDANT POLYESTER RESIN/ FIBERGLASS REINFORCED POLYMER FSTNR FASTENER FT FOOT OR FEET FTG FOOTING FUT FUTURE	- M - (CONT.) MISC MISCELLANEOUS MJ MECHANICAL JOINT MK MARK MKR MARKER ML MORTAR LINED MLC MORTAR LINED & COATED MON MONUMENT MOV MOTOR OPERATED VALVE MPT MALE PIPE THREAD MSD MAIN SERVICE DISTRIBUTION MSDS MATERIAL SAFETY DATA SHEET MTD MOUNTED MWD METROPOLITAN WATER DISTRICT	- Q - QCV QUICK COUPLER VALVE QDC QUICK DISCONNECT COUPLING QS QUAD SHEET QTR QUARTER QTY QUANTITY	- S - (CONT.) ST STREET STA STATION STD STANDARD STRIRUP STIRRUP STL STEEL STLT STREET LIGHT STN STATION SSTL STAINLESS STEEL SUPPL SUPPLEMENT SUR SURVEY SV SOLENOID VALVE SVC SERVICE S/W SIDEWALK SW SOUTHWEST SY SQUARE YARD SYM SYMBOL SYMM SYMMETRICAL SYS SYSTEM
- B - B&S BELL & SPIGOT BAL BALANCE BC BOLT CIRCLE/BACK OF CURB BCR BEGINNING OF CURB BCV BUTTERFLY CHECK VALVE BE BELL END BETW BETWEEN BFP BACKFLOW PREVENTER BFV BUTTERFLY VALVE BK BOOK/BACK BL-FLG BLIND FLANGE BLDG BUILDING BLK BLOCK BLM BUREAU OF LAND MANAGEMENT BLVD BOULEVARD BM BENCHMARK BO BLOW OFF ASSEMBLY BOC BACK OF CURB BOT BOTTOM BOW BACK OF WALK BPV BACK PRESSURE VALVE BRG BEARING BS BACK SIGHT BUR BURIED BV BALL VALVE BW BOTH WAYS/BACK OF SIDEWALK	- D - D OR Δ DELTA ANGLE D/S DOWNSTREAM D/W DRIVEWAY DEC DECI-METER DEMO DEMOLITION DEPT DEPARTMENT DET DETAIL DEV DEVELOPMENT DI DROP INLET OR DUCTILE IRON DIA OR Ø DIAMETER DIAG DIAGONAL DIM DIMENSION DIP DUCTILE IRON PIPE DIR DIRECTION DISCH DISCHARGE DIST DISTANCE DISTR DISTRIBUTION DIV DIVISION DL DEAD LOAD DMH DROP MANHOLE DN DOWN DR DRIVE/DIMENSION RATIO DRW DRY WELL DTL DETAIL DUPL DUPLICATE DWG DRAWING	- G - G/B GRADE BREAK GA GAGE GAL(S) GALLON(S) GALV GALVANIZED GENL GENERAL GIS GEOGRAPHIC INFORMATION SYSTEM GND GROUND GPD GALLONS PER DAY GPH GALLONS PER HOUR GPM GALLONS PER MINUTE GRD GRADE GRT GRATE GV GATE VALVE	- N - N NORTH N/A NOT APPLICABLE NAVD NORTH AMERICAN VERTICAL DATUM NAP NOT-A-PART NBS NATIONAL BUREAU OF STANDARDS NC NATIONAL COARSE NE NORTHEAST NF NORTH FACE NFPA NATIONAL FIRE PROTECTION ASSOCIATION NG NATURAL GROUND NIC NOT IN CONTRACT NIP NOT IN PROJECT NO, # NUMBER NOM NOMINAL NPS NOMINAL PIPE SIZE NPT NATIONAL TAPER PIPE THREAD NTS NOT TO SCALE NW NORTHWEST	- O - O/O OUT TO OUT OC ON CENTER OCWD ORANGE COUNTY WATER DISTRICT OD OUTSIDE DIAMETER OF OUTSIDE FACE OFC OFFICE OH OVER HEAD OHP OVER HEAD POWER OPER OPERATOR OPNG OPENING OPP OPPOSITE ORF ORIFICE ORIG ORIGINAL OS&Y OUTSIDE SCREW & YOKE OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OZ OUNCE	- R - R RADIUS (R) RADIAL R/W RIGHT-OF-WAY RCB REINFORCED CONCRETE BOX RCP REINFORCED CONCRETE PIPE RCW RECLAIMED WATER RD ROAD REC RECESSED RECT RECTANGULAR RED REDUCER REF REFERENCE (DIMENSION) REG REGULATING (REGULATOR) REINF REINFORCED (REBAR) REQD REQUIRED RES RESIDENTIAL OR RESERVOIR RET RETURN REV REVISION OR REVERSE RF RAISED FACE RM ROOM RME RESIDENTIAL MAIN EXTENSION ROW RIGHT OF WAY RPM REVOLUTIONS PER MINUTE RPS REVOLUTIONS PER SECOND RPPA REDUCED PRESSURE PRINCIPLE ASSEMBLY RR RAILROAD RSGV RESILIENT SEATED GATE VALVE RT RIGHT RV RELIEF VALVE	- T - TBM TEMPORARY BENCH MARK TEL TELEPHONE TEMP TEMPORARY THD THREADED THK THICK(NESS) THR BLK THRUST BLOCK TK TANK TOW TOP OF WALL TP TELEPHONE POLE/TOP OF PIPE (TYP) TYPICAL
- C - C/C CENTER TO CENTER C CONDUIT C&G CURB & GUTTER CAL CALIBRATE CAP CAPACITY CATV CABLE TV CAV COMBINATION AIR VALVE CB CATCH BASIN CEM CEMENT CHKD CHECKED CIP CAST IRON PIPE/CAST IN PLACE CIR CIRCLE CIRCUM CIRCUMFERENCE CL OR Ⓞ CENTERLINE CL-2 CHLORINE CLG CEILING CLO CLEANOUT CLP CLAMP CLR CLEAR CM CENTIMETER CML CEMENT MORTAR LINED CMP CORRUGATED METAL PIPE CMU CONCRETE MASONRY UNIT CO COUNTY/COMPANY/CONTRACT	- E - E EAST OR EDGE EA EACH EC EPOXY COATED/END OF CURB ECC ECCENTRIC ECR END OF CURB EF EACH FACE EG EXISTING GROUND EL EPOXY LINED ELEC ELECTRICAL ELEV ELEVATION ELL ELBOW ENG ENGINE ENGR ENGINEER EOP EDGE OF PAVEMENT EOS EDGE OF SHOULDER EQ EQUAL OR EQUATION EQ SP EQUALLY SPACED EQUIP EQUIPMENT EQUIV EQUIVALENT ESMT EASEMENT EST ESTIMATE ETC ETCETERA EW EACH WAY EXC EXCAVATE EXIST EXISTING EXP JT EXPANSION JOINT EXT EXTENSION	- H - H&V HEATING & VENTILATION HB HOSE BIBB HD HEAD HDR HEADER HEX HEXAGONAL HMWPE HIGH MOLECULAR WEIGHT POLYETHYLENE HORIZ HORIZONTAL HP HORSEPOWER HPI HORIZONTAL POINT OF INTERSECTION HPG HIGH PRESSURE GAS HR HOUR HT HEIGHT HV HOSE VALVE HWY HIGHWAY	- I - ID INSIDE DIAMETER IN INCH INST INSTALL INSTR INSTRUMENT INSUL INSULATION INT INTERIOR INV INVERT IPS IRON PIPE SIZE IP IRON PIPE IRR IRRIGATION	- J - JT JOINT	- K - KG KILOGRAM KM KILOMETER KV KILOVOLT	- L - LAD LADDER LAT LATERAL LB OR # POUND LDR LEADER LEN OR L LENGTH LF LINEAR FOOT LG LONG LN LANE LT LEFT/LIGHT LWR LOWER
	- F - F/F FACE TO FACE FABR FABRICATION/FABRICATED FC FACE OF CURB FD FLOOR DRAIN FDN FOUNDATION FES FLARED END SECTION FF FINISHED FLOOR FG FINISHED GRADE FH FIRE HYDRANT FIG FIGURE FL OR Ⓡ FLOW LINE FLG FLANGE	- M - M METER M.B. MAP BOOK MAG MAGNESIUM MATL MATERIAL MAX MAXIMUM MC MORTAR COATED MDD MAXIMUM DRY DENSITY MEAS MEASUREMENT MECH MECHANICAL MFR MANUFACTURER MG MILLION GALLONS MGD MILLION GALLONS PER DAY MH MANHOLE MIL MILLIMETER MIN MINIMUM MIP MALE IRON PIPE THREAD	- P - P/L POLE/PRESSURE/PIPE PROPERTY LINE PAT PATENT PAVMT PAVEMENT PB PULL BOX PC POINT OF CURVATURE PCC PORTLAND CEMENT CONCRETE PCCP PRESTRESSED CONCRETE CYLINDER PIPE PDL PUMP DISCHARGE LINE PE PLAIN END/POLYETHYLENE PIPE PED PEDESTAL PERM PERMANENT PERP PERPENDICULAR PG PRESSURE GAGE PH PHASE POINT OF INTERSECTION PHYD POST HYDRANT PKG PACKAGE PKWY PARKWAY PL PLACE PLS PROFESSIONAL LAND SURVEYOR PLT PLATE (DRAWING) PNT POINT PO PUSH-ON POLY POLYETHYLENE PP POWER POLE PPM PARTS PER MILLION PR PAIR P/R PATENT RESERVATION PRC PRECAST REINFORCED CONCRETE PRELIM PRELIMINARY PRIM PRIMARY PROP PROPOSED PRS PRESSURE REGULATING STATION PRV PRESSURE REGULATING VALVE PS PRESSURE SWITCH/PUMP STATION PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PT POINT/POINT OF TANGENCY PUE PUBLIC UTILITY EASEMENT PV PLUG VALVE PVC POLYVINYL CHLORIDE PIPE PWR POWER	- S - S SOUTH/SLOPE/SEWER S/C SAW CUT SCCP STEEL CYLINDER CONCRETE PIPE SCH SCHEDULE SD STORM DRAIN SDR STANDARD DIMENSION RATIO SE SOUTHEAST SEC SECTION/SECOND(ARY) SG SUBGRADE SEG SEGMENT SHLDR SHOULDER SHT SHEET SID SPECIAL IMPROVEMENT DISTRICT SIG SIGNAL SIM SIMILAR SL SLOPE SLV SLEEVE SO STUBOUT SP SPACE SPC STATE PLANE COORDINATES SPEC(S) SPECIFICATION(S) SQ SQUARE SQ FT SQUARE FOOT (FEET) SQ YD SQUARE YARD SRM SINGLE RESIDENTIAL MAIN SS SANITARY SEWER SSPWC STANDARD & SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	- U - UE UNDERGROUND ELECTRIC UG UNDERGROUND UGC UNDERGROUND CONDUIT UGP UNDERGROUND POWER UGT UNDERGROUND TELEPHONE U/L UNDERWRITERS LABORATORY UNIV UNIVERSAL U/S UPSTREAM UTIL UTILITIES	
						- V - V VOLT OR VALVE VAR VARIES VB VALVE BOX VCP VITRIFIED CLAY PIPE VERT VERTICAL VRY VERIFY
						- W - W/W WITH W WEST/WATER W/O WITHOUT WLD WELDED WM WATER METER

NOTE:
THIS IS A STANDARD ABBREVIATION SHEET. SOME ABBREVIATIONS MAY APPEAR ON THIS SHEET BUT NOT USED IN THE PLANS. ALL ABBREVIATIONS USED ON THE PLANS MUST APPEAR IN THIS SHEET.

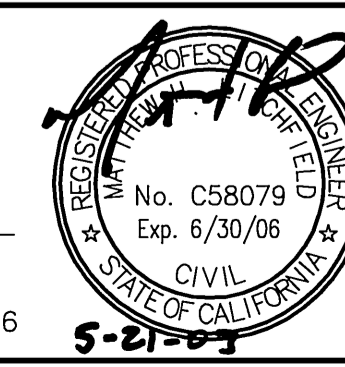
* AS-BUILT 5/14/2004



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PLANS PREPARED UNDER SUPERVISION OF
Matthew H. Litchfield
MATTHEW H. LITCHFIELD
R.P.E. No. C58079
DATE 5-21-03
Exp 6-30-06



CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	<i>Steve</i>		<i>Alan</i>
INSPECTION SECTION SURVEYOR	<i>Steve</i>		CITY ENGINEER

DESIGNED BY MHL DRAWN BY IS CHECKED BY LAA

REVISIONS

MARK	REVISIONS	APPR.	DATE

DATE 5/13/03

SPRUCE STREET TRUNK SEWER ABBREVIATIONS

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

ACCT. NO. 9713523203-440301XX
S-1787
SHEET 2 OF 4
FILE NO.

INDEXED 5-27-03 LFT

805

795

785

775

820

810

800

805

835

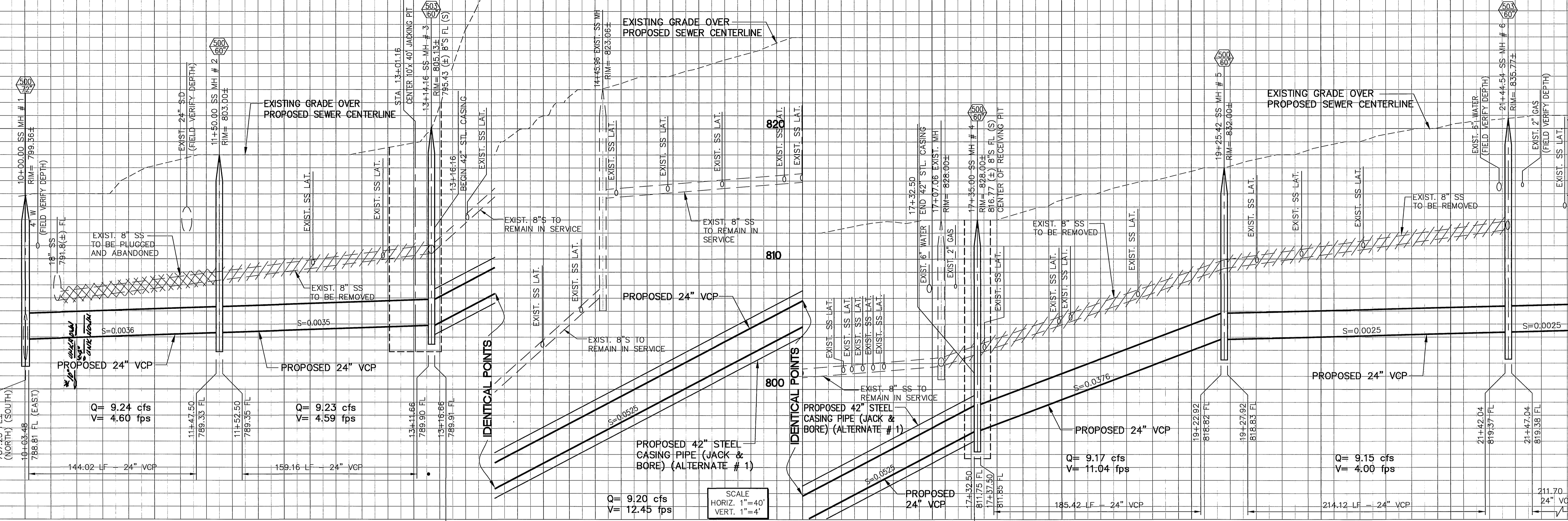
825

815

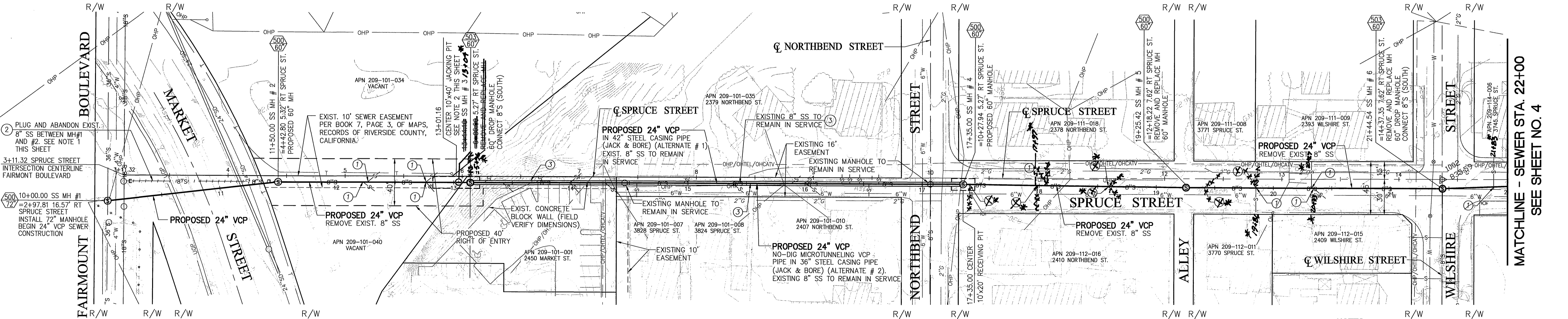
805

MATCHLINE - SEWER STA. 22+00
SEE SHEET NO. 4

MATCHLINE - SEWER STA. 22+00
SEE SHEET NO. 4



415.84 LF - 24" VCP (ALTERNATE # 1) (42" STEEL CASING)
 415.84 LF - 24" NO-DIG MICROTUNNEL VCP (ALTERNATE # 2) (36" STEEL CASING)



NOTES:

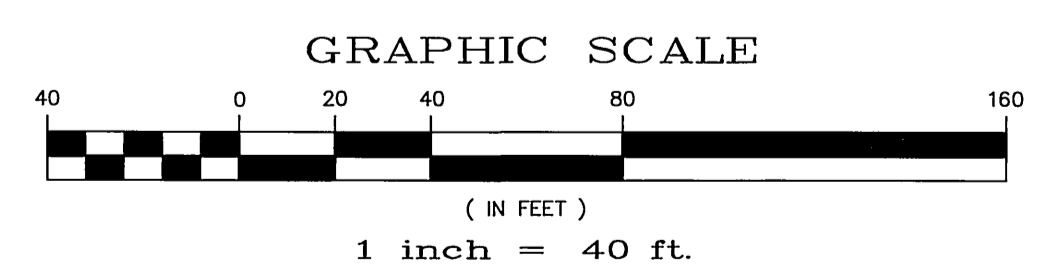
- EXIST. 8" SS TO REMAIN IN SERVICE UNTIL PROPOSED 24" SEWER IS CONSTRUCTED AND OPERATIONAL BETWEEN MANHOLES NO. 1 AND NO. 2. BYPASS PUMPING ACROSS MARKET STREET IS PROHIBITED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL PROPERTY LINES AND SHALL NOT ENCROACH ONTO PRIVATE PROPERTY WITHOUT A WRITTEN AND APPROVED RIGHT OF ENTRY FROM THE CITY OF RIVERSIDE.

BENCHMARK:
 CALIFORNIA DIVISION OF HIGHWAYS BRASS DISK IN A DOCUMENT AT THE CENTERLINE INTERSECTION OF OAKLEY ST AND MAIN ST. NAVD 1929 ELEV.=825.448 FT.

SPECIFIC CONSTRUCTION NOTES:

- CONNECT EXISTING SEWER LATERAL TO PROPOSED SEWER PER STD. DWG. 562.
- ABANDON EXISTING SEWER IN PLACE
- EXISTING SEWER TO REMAIN IN SERVICE
- JACK AND BORE 42" STEEL CASING W/24" VCP CARRIER PIPE AND SKID PER CASING DETAIL SHEET 4 (ALTERNATE # 1). JACK AND BORE 36" STEEL CASING W/24" MICROTUNNELING VCP CARRIER PIPE AND SKID PER CASING DETAIL SHEET 4 (ALTERNATE # 2).

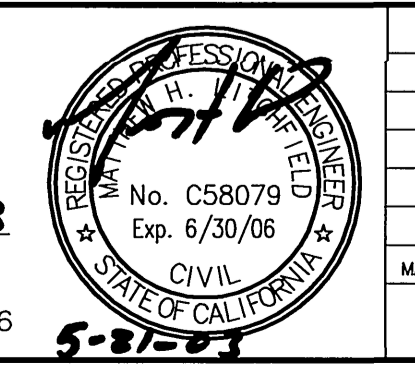
***AS BUILT 1/11/2004**



Underground Service Alert
 of Southern California
 Call: TOLL FREE
 1-800
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 TWO WORKING DAYS BEFORE YOU DIG

Engineering Planning Surveying Construction Services
PBSJ
 3610 Central Avenue
 Suite 500
 Riverside, CA 92506
 Tel:(909) 341-6380
 Fax:(909) 341-6389

PLANS PREPARED UNDER SUPERVISION OF
 MATTHEW H. LITCHFIELD
 R.P.E. No. C58079
 DATE 5-21-03
 Exp 6-30-06



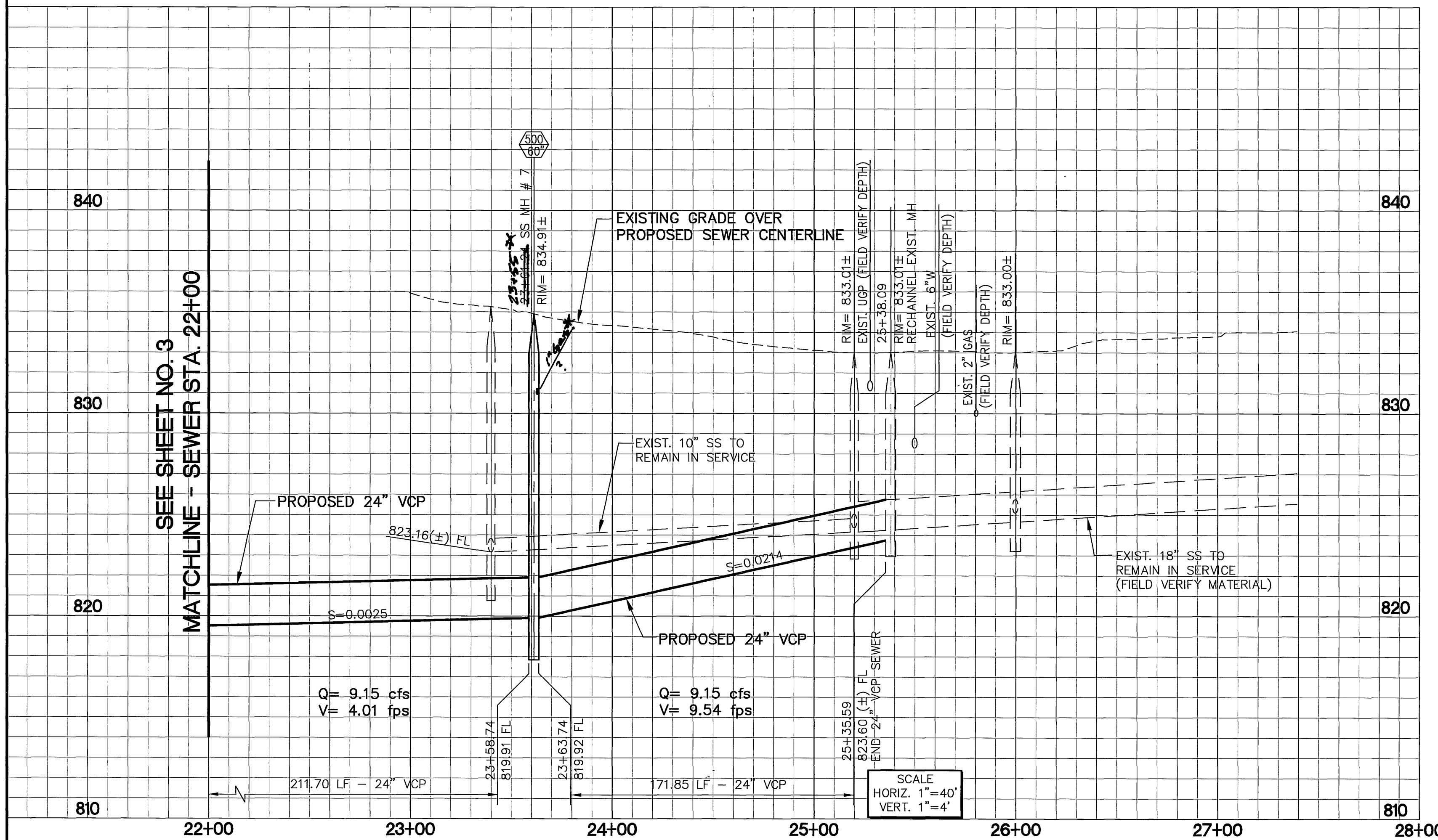
MARK	REVISIONS	APPR. DATE

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	<i>[Signature]</i>	5/21/03	CITY ENGINEER	<i>[Signature]</i>	5/23/03
INSPECTION SECTION					
SURVEYOR					

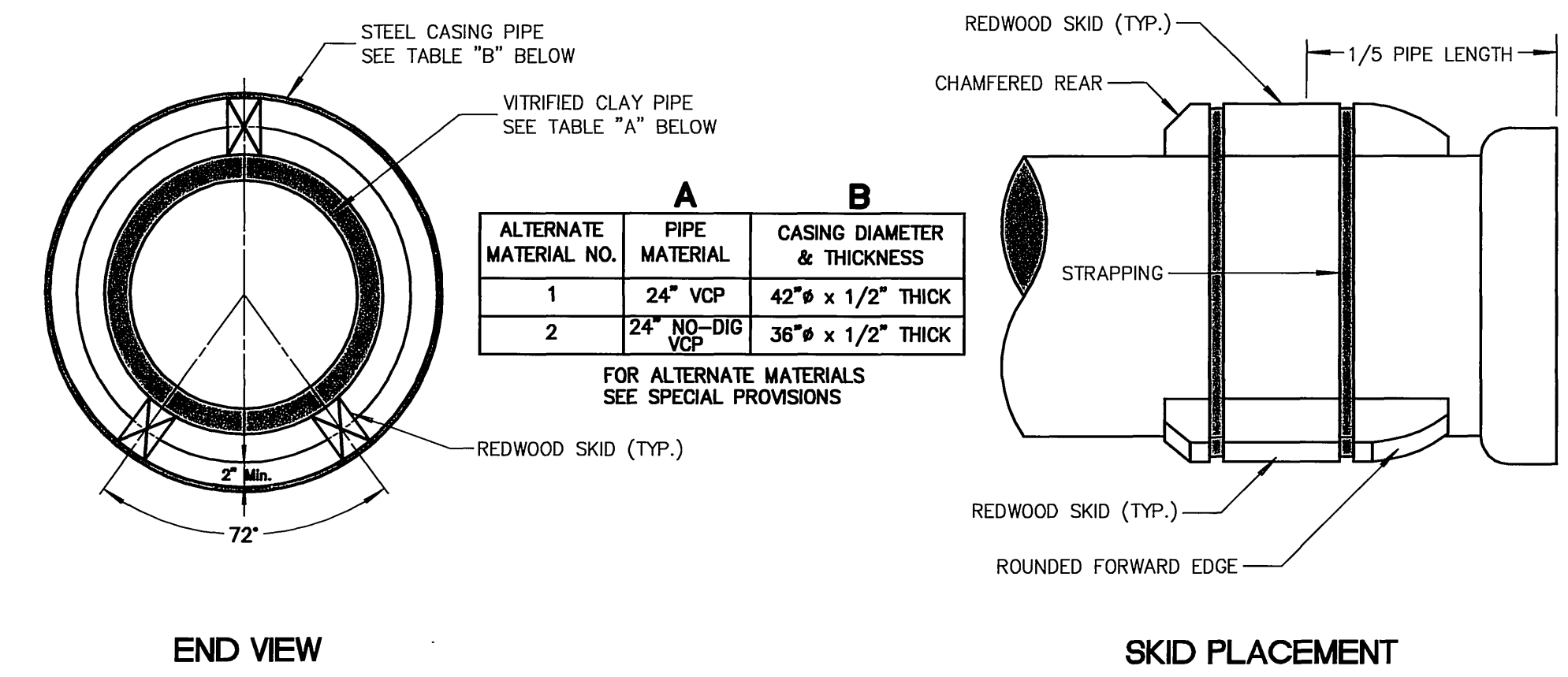
SPRUCE STREET TRUNK SEWER
 FROM STA. 10+00 TO STA. 22+00
 HORIZ. SCALE: 1" = 40'
 VERT. SCALE: 1" = 4'

ACCT. NO. 9713523203-440301XX
S-1787
 SHEET 3 OF 4
 FILE NO.

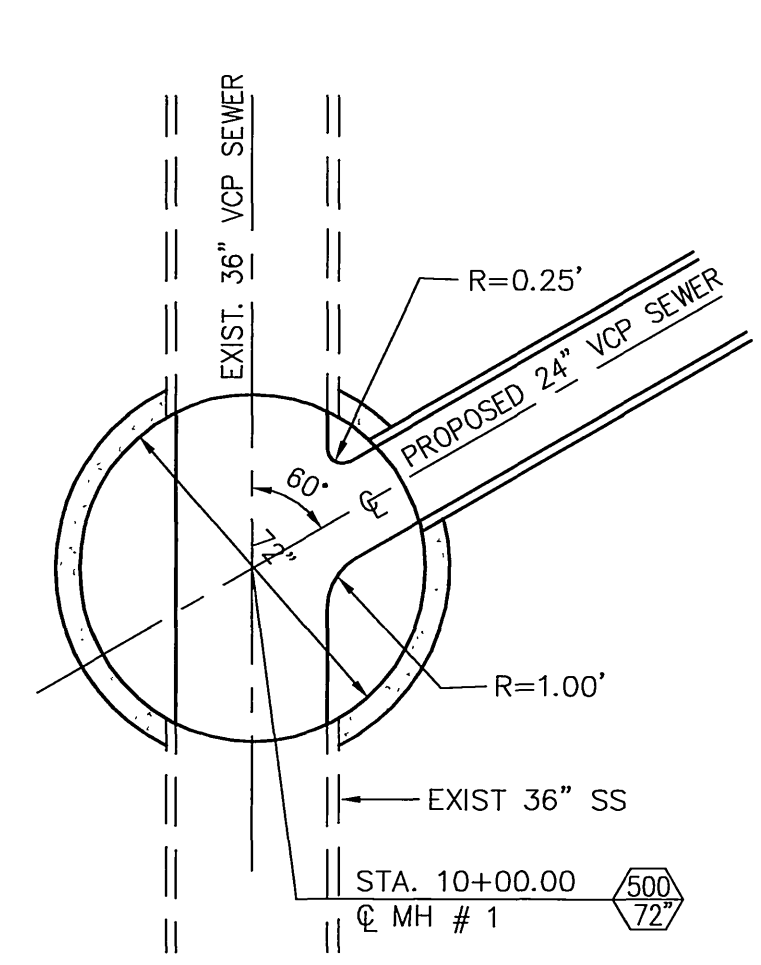
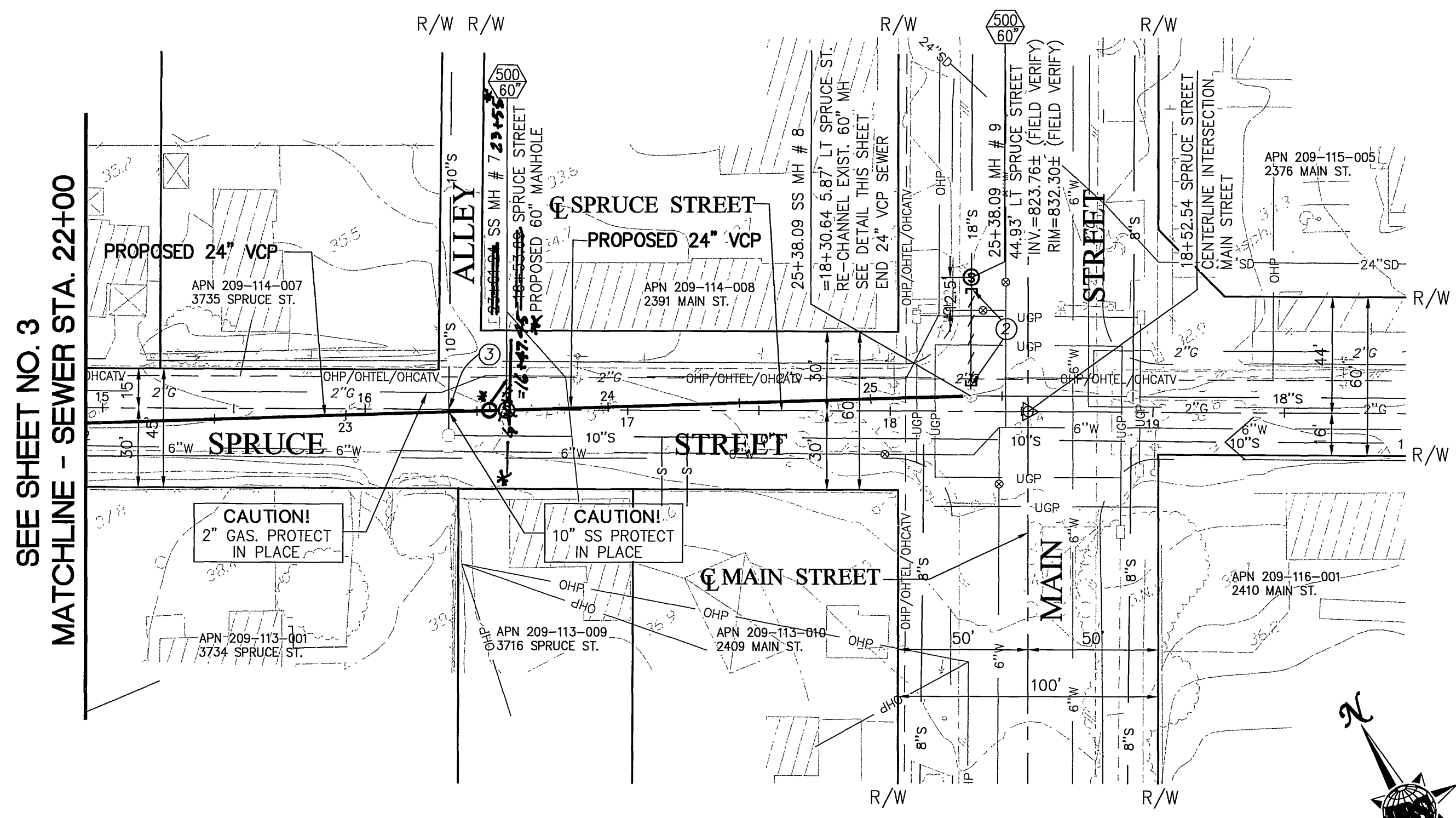


NOTES

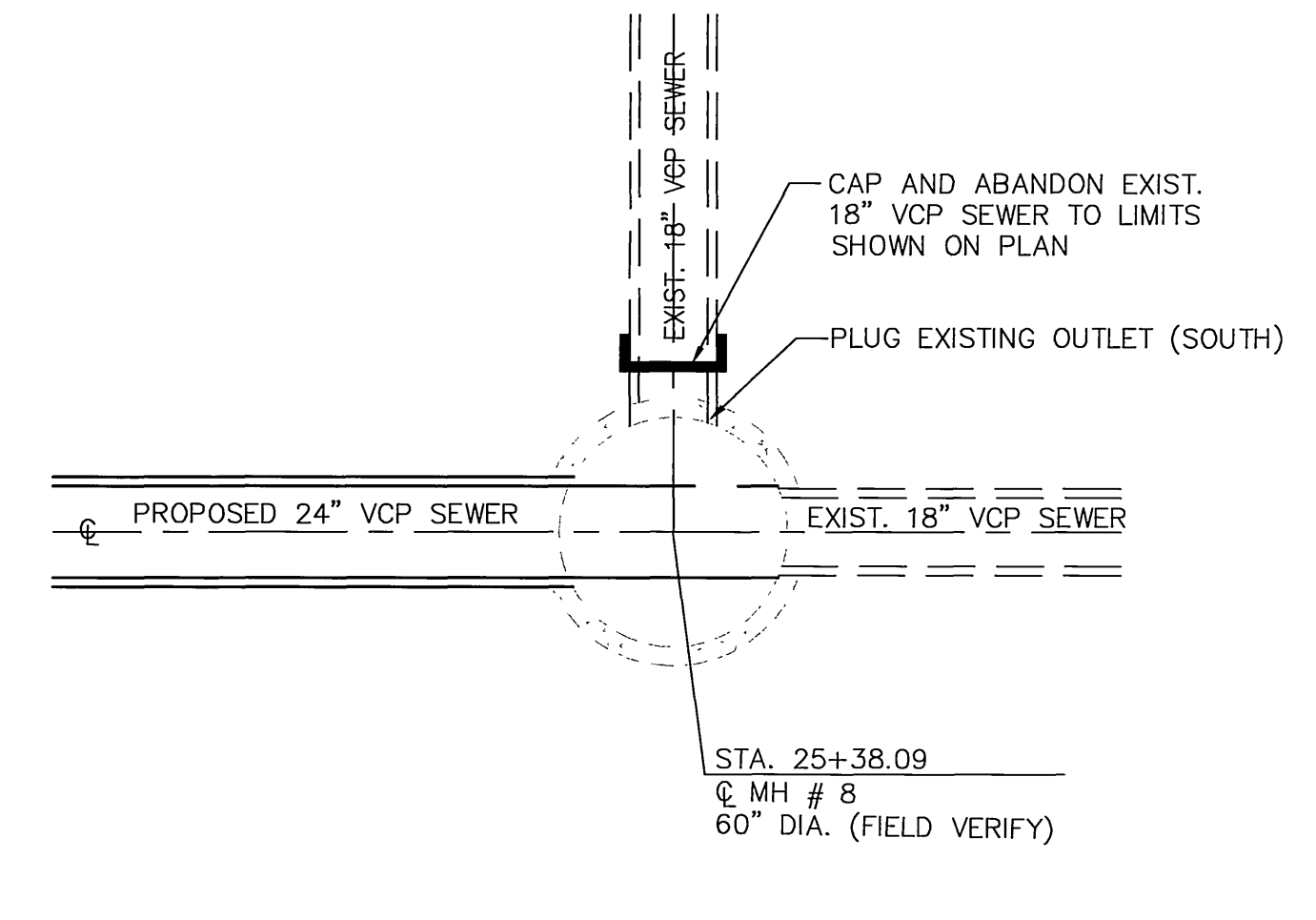
- SKIDS SHALL BE REDWOOD, 30" LONG, 4" WIDE, AND OF SUFFICIENT HEIGHT TO PROVIDE A MINIMUM 2" CLEARANCE BETWEEN INVERT OF CASING AND BELL OF VCP. ALL SKIDS SHALL BE OF EQUAL DIMENSIONS AND POSITIONED UNIFORMLY.
- ALL STEEL CASING PIPE JOINTS SHALL BE WELDED WITH A CONTINUOUS CIRCUMFERENTIAL WELD.
- CARRIER PIPE SHALL BE AIR TESTED PRIOR TO SLURRY BACKFILLING AND SEALING CASING.
- VOID BETWEEN CASING AND CARRIER PIPE SHALL BE FILLED WITH A ONE SACK PCC SLURRY MIX.
- UPSTREAM AND DOWNSTREAM ELEVATIONS TO BE VERIFIED PRIOR TO SEALING CASING.
- ENDS OF CASING TO BE SEALED WITH BRICK AND MORTAR. PLACE 1" # MINIMUM PVC PIPE AT INVERT OF CASING (THROUGH BRICK) AND SURROUND WITH 2 CUBIC FEET CRUSHED ROCK.
- SEE SPECS. FOR ADDITIONAL REQUIREMENTS.



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



MANHOLE NO. 1 RE-CHANNELING DETAIL
SCALE: 1"=4'



MANHOLE NO. 8 RE-CHANNELING DETAIL
SCALE: 1"=4'

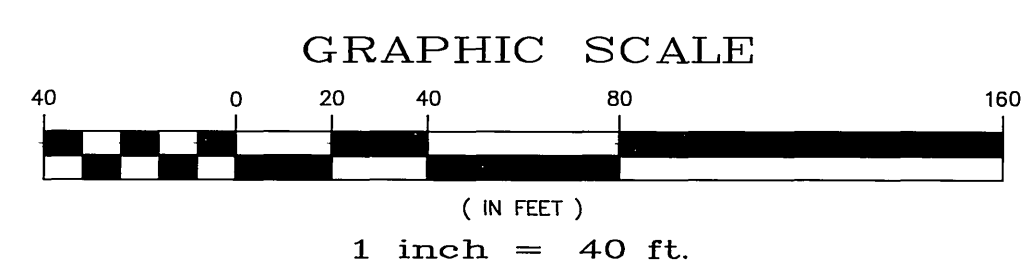
SPECIFIC CONSTRUCTION NOTES:

- ABANDON EXISTING SEWER IN PLACE
- EXISTING SEWER TO REMAIN IN SERVICE

BENCHMARK:

CALIFORNIA DIVISION OF HIGHWAYS BRASS DISK IN A DOCUMENT AT THE CENTERLINE INTERSECTION OF OAKLEY ST AND MAIN ST. NAVD 1929 ELEV.=825.448 FT.

*AS BUILT 5/14/03



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MATTHEW H. LITCHFIELD DATE 5-21-03
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CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
APPROVED BY: *[Signature]* DATE: 5/23/03
PRINCIPAL ENGINEER: *[Signature]*
INSPECTION SECTION: *[Signature]*
SURVEYOR: *[Signature]*

SPRUCE STREET TRUNK SEWER
FROM STA. 22+00 TO STA. 25+38.09
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

ACCT. NO. 9713523203-440301XX
S-1787
SHEET 4 OF 4
FILE NO.

INDEXED S-27-03 LFL