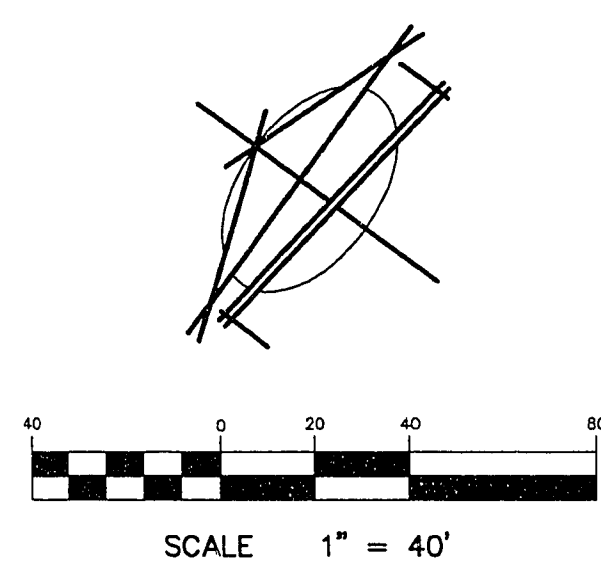
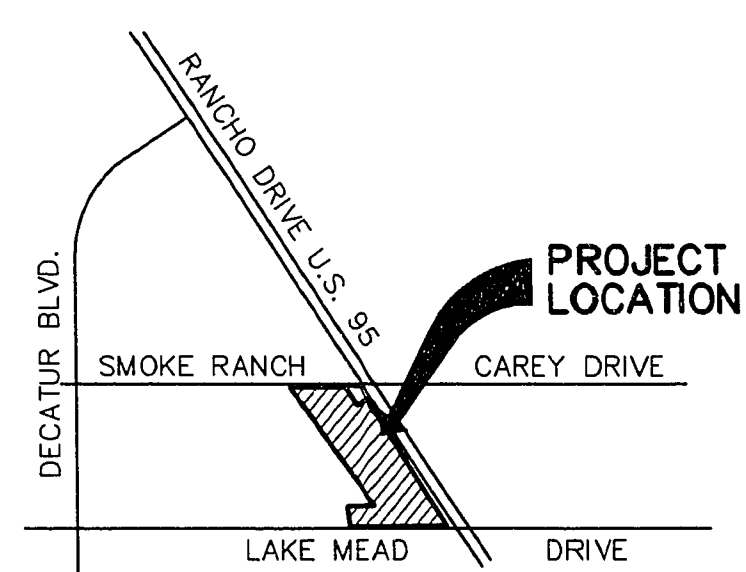
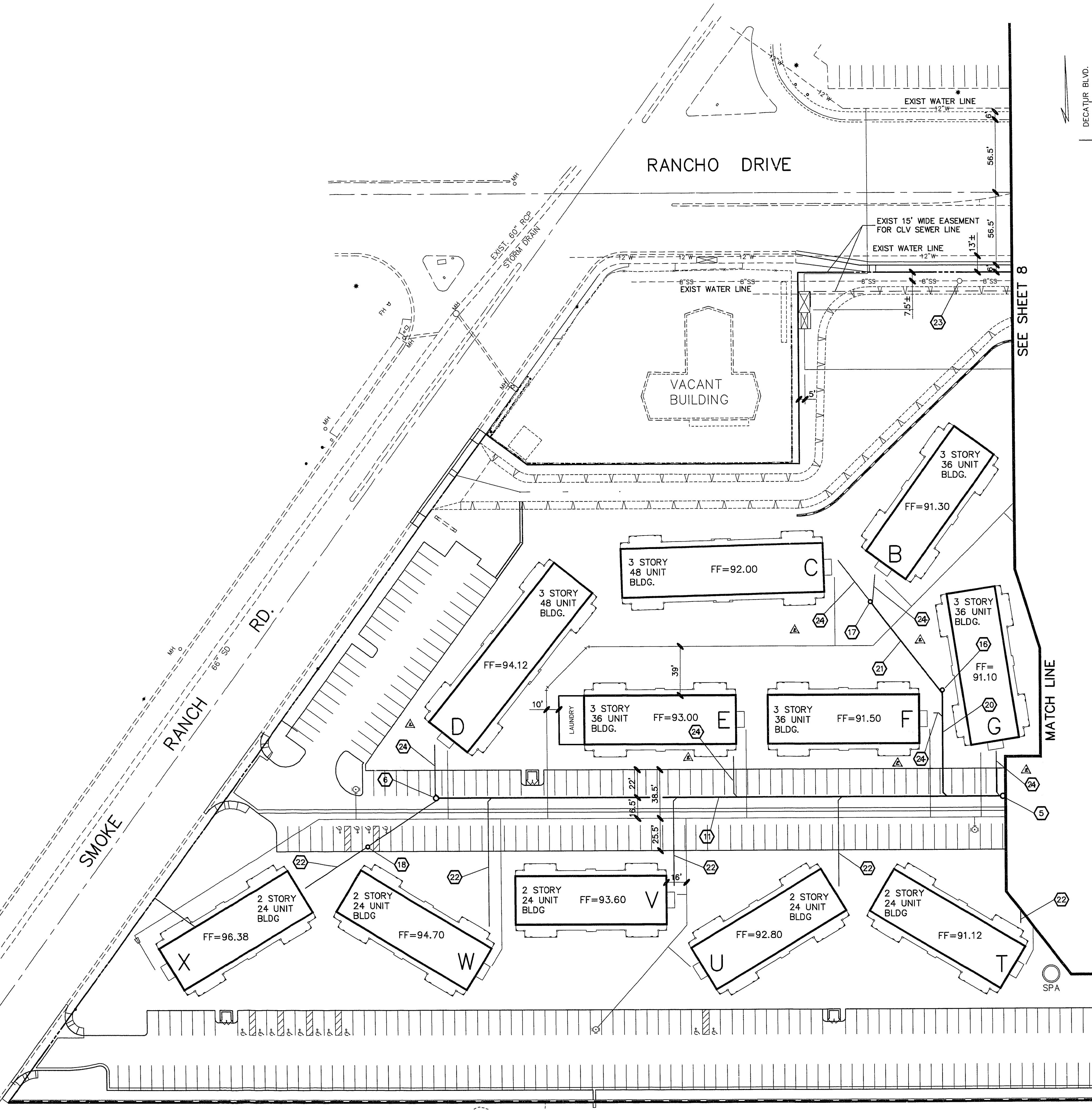


PLD: SSI 07/31/96 11:22:00



BENCH MARK
ALUMINUM PLATE WITH RIVET IN THE TOP OF CURB
LOCATED IN THE SOUTHWEST CURB RETURN OF THE
INTERSECTION OF CAREY AVE. AND RANCHO DRIVE.
CITY OF LAS VEGAS # 7C01-19NNW6
ELEVATION (667.7892 METERS NAVD 88 DATUM)
2190.90 FT

UTILITY NOTE
THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON HAS BEEN
DETERMINED FROM SURFACE EVIDENCE OF THEIR EXISTANCE OR FROM
INFORMATION OBTAINED FROM THE UTILITY COMPANIES. THE ENGINEER
ACCEPTS NO LIABILITY FOR THE EXISTENCE OR NON-EXISTENCE OF UTILITY
LINES. CONTRACTORS AND OTHERS USING THIS MAP MUST CONFIRM THE
LOCATION OF UNDERGROUND LINES OR STRUCTURES WITH THE UTILITY
COMPANIES PRIOR TO COMMENCING ANY EXCAVATION.



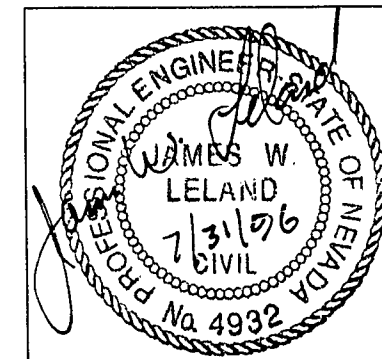
SEWER LINE NOTES

- ALL CONSTRUCTION MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IN ALL CASES, THESE STANDARDS SHALL SUPERSEDE THE UNIFORM STANDARD SPECIFICATIONS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATION BOOKS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.
- CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OR TYPE II GRAVEL.
- ALL MANHOLES IN PAVED STREETS 80' R/W AND LARGER, SHALL HAVE CONCRETE COLLARS.
- TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIA. SIZE. CONNECTIONS TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
- A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18" UNDER A WATER MAIN, MUST BE REINFORCED CONCRETE ENCASED PIPE FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.
- ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY MUST BE CLASS "A" CONTRACTORS.
- THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A DEFLECTION OF MORE THAN ONE TENTH (0.10) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED AND REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY.

ESTIMATED SEWAGE CONTRIBUTION

AVERAGE FLOW = 0.28 MGD
PEAK FLOW = 1.04 MGD

ALL ON-SITE SEWERS ARE PRIVATELY OWNED
AND MAINTAINED



PREPARED FOR : BIGELOW DEVELOPMENT CO.	
DATE 07/02/96	REVISIONS 1. CHANGE BLDG. SEWER LATERAL FROM 4" TO 6" 2. RE-ALIGN WATER LINE ACROSS RANCHO DR.
DATE 07/02/96	
DATE MAY 1996	DESIGN JWL
DATE MAY 1996	DRAWN AWM
DATE MAY 1996	CHECK SCALE 85102
BAUGHMAN & TURNER, INC. CIVIL ENGINEERS LAND PLANNERS LAND SURVEYORS 1210 HINSON STREET LAS VEGAS, NEVADA 89102 (702) 870-8771	
SEWER PLAN SECTION 19, TOWNSHIP 20 SOUTH, RANGE 61 EAST, M.D.B. & M. CITY OF LAS VEGAS SUN HARBOR - RANCHO/SMOKE RANCH	
SHEET 13 PROJ. NO. SSI	

31-2-147 107-V2547