

CONSTRUCTION KEY NOTES (ALL KEY NOTES NOT NECESSARILY SHOWN ON THIS SHEET)

1. INSTALL FIRE HYDRANT PER U.D.S. PLATE NO. 7. PROVIDE A MINIMUM OF 3' CLEARANCE AROUND FIRE HYDRANT.
2. INSTALL 8" DOUBLE CHECK DETECTOR ASSEMBLY ABOVE FG, ON A 4"x63"x151" CONCRETE PAD, PER U.D.S. PLATE NO. 20B.
3. INSTALL 2-2" METERS PER PLATE 1D (POTABLE METERS).
4. CONSTRUCT STANDARD ECCENTRIC MANHOLE PER SD-1 (UDCS).
5. PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE BETWEEN SEWER AND WATER LINES.
6. EXISTING MANHOLE TO BE VERTICALLY ADJUSTED TO PROPOSED AC ELEVATION. ADJUSTMENT TO BE PER GOVERNING AGENCY AND APPROVED BY AGENCY INSPECTOR.
7. 8" MECHANICAL JOINT TAPPING SLEEVE AND VALVE PER LVWD STD. PLATE NO. 22.
8. EXISTING 30" PUBLIC SS TO BE ENCASED IN REINFORCED CONCRETE PER DESIGN AND CONSTRUCTION STDS. FOR WASTEWATER COLLECTION SYSTEMS SD-11.
9. INSTALL 2-2" RPPA PER U.D.S. PLATE 11A.
10. INSTALL 2-2" RPPA PER UDS PLATE 11A. (LANDSCAPE ONLY)
11. INSTALL 2-2" METERS PER PLATE 11A. (LANDSCAPE METERS)

FIRE FLOW CALCULATIONS

FIRE FLOW REQUIREMENT IS: 2625 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON:

- SQUARE FOOTAGE: 59396 SQUARE FEET
- LARGEST AREA BETWEEN 4-HOUR AREA SEPARATION WALLS: NA SQUARE FEET
- BUILDING HEIGHT: 28'-10" FEET
- TYPE OF CONSTRUCTION: ONE FLOOR
- OCCUPANCY: 11 N
- FULL AUTOMATIC FIRE SPRINKLER SYSTEM: 550

REVIEWED BY: *[Signature]*
DATE: 5-6-96

LAS VEGAS VALLEY WATER DISTRICT STANDARD NOTES

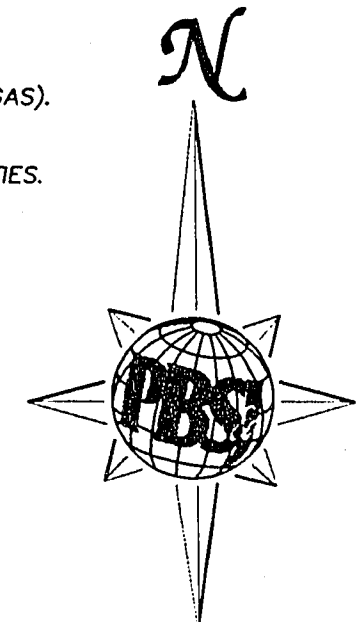
1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVWD. FOLLOWING WATER PLAN APPROVAL, 48 HOUR NOTICE SHALL BE GIVEN TO THE LVWD COMMUNICATION SUPPORT CENTER (258-7171) PRIOR TO THE START OF CONSTRUCTION. NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO A LVWD INSPECTION.
2. ALL WORK SHALL CONFORM TO LVWD STANDARD PLATES, DRAWINGS AND SPECIFICATIONS AND THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS), LATEST EDITION.
3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2, SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENT, CLARK COUNTY AREA.
4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVWD.
5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVWD APPROVED SERVICE SADDLES.
6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
8. THE FOLLOWING REQUIREMENTS MUST BE MET IN THE EVENT A WATER LINE AND SANITARY OR STORM SEWER LINE CROSS:
 - A. MINIMUM EIGHTEEN (18) INCH VERTICAL SEPARATION (OUTSIDE TO OUTSIDE) MUST BE MAINTAINED WHEN THE WATER LINE IS INSTALLED OVER THE SANITARY OR STORM SEWER LINE. IF THE VERTICAL SEPARATION CANNOT BE MAINTAINED OR THE WATER LINE MUST BE PLACED UNDER THE SANITARY OR STORM SEWER LINE, THE SANITARY OR STORM SEWER LINE MUST BE CONSTRUCTED WITH ONE OF THE FOLLOWING OR, AS SHOWN ON THESE PLANS:
 - A. POTABLE WATER SUPPLY QUALITY MATERIAL.
 - B. ENCASEMENT, WITH FOUR (4) INCH CONCRETE (MINIMUM)
 - C. SLEEVING WITH POTABLE WATER SUPPLY QUALITY PIPE.
 - EACH PROVISION MUST EXTEND ALONG THE SANITARY OR STORM SEWER, ON EITHER SIDE OF THE MAIN, A MINIMUM 10 FOOT DISTANCE PERPENDICULAR TO THE WATER MAIN EXTERIOR.
9. WARNING TAPE SHALL BE REQUIRED OVER ALL MAINS, ALL SIX (6) INCH DIAMETER AND LARGER SERVICE LATERALS, AND ANY SERVICE LATERAL NOT INSTALLED PERPENDICULAR TO THE MAIN IN ACCORDANCE WITH STANDARD PLATE NO. 27.
10. ALL WATER FACILITIES SHALL BE FILLED, DISINFECTED, PRESSURE TESTED, FLUSHED, FILLED AND AN ACCEPTABLE WATER SAMPLE OBTAINED, PRIOR TO CONNECTION TO THE LVWD'S DISTRIBUTION SYSTEM.
11. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT (48) HOURS PRIOR TO PICKUP.
12. CONSTRUCTION MAY INTERRUPT SERVICE, WITH LVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10 PM AND 6 AM, SUNDAY THROUGH THURSDAY. CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICE FEES BE INSTALLED, WITHOUT LVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEES MUST HAVE PRIOR LVWD APPROVAL.
13. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVWD'S PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

GENERAL UTILITY CONSTRUCTION NOTES

1. WATER LINES TO HAVE THRUST BLOCKS CONSTRUCTED PER UDS PLATE NO. 5.
2. WET TAPS TO BE CONSTRUCTED IN CONFORMANCE WITH UDS PLATE NO. 62.
3. TRENCH BACKFILL FOR WATER LINES TO BE CONSTRUCTED PER UDS PLATE NO. 6B.
4. TRENCH BACKFILL FOR SEWER LINES TO BE CONSTRUCTED PER SWCS SD-16A.
5. CONTRACTOR TO LOCATE AND VERIFY SIZE, LINETYPE, CONDITION, DEPTH, PRESSURE, AND LOCATION OF ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA PRIOR TO CONSTRUCTION. THE CIVIL ENGINEER SHALL BE CONTACTED ONCE THE UTILITY LINE IS LOCATED.
6. THESE DRAWINGS MAY NOT INDICATE ALL EXISTING BURIED UTILITY LINES. CONTRACTOR IS TO EXERCISE GREAT CARE DURING EXCAVATION IN ORDER TO AVOID MAKING CONTACT WITH ANY EXISTING UTILITY LINES. IF UTILITY LINES ARE DAMAGED BY THE CONTRACTOR, SUCH DAMAGE SHALL BE REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR TO SAWCUT AND REMOVE EXISTING ASPHALT AND CONCRETE AS NECESSARY FOR UTILITY TRENCHES, BACKFILL AND PATCH ALL TRENCHES AS INDICATED IN DETAILS AND /OR ACCORDING TO THE GOVERNING ENTITY (CITY OF LAS VEGAS).
8. INSTALLATION OF ALL UTILITY LINES SHALL BE COORDINATED WITH THE CLARK COUNTY SCHOOL DISTRICT TO MINIMIZE DISRUPTION OF LUNT ELEMENTARY SCHOOL ACTIVITIES.
9. CONTRACTOR/OWNER TO OBTAIN A C.L.V. OFF-SITE IMPROVEMENT PERMIT FOR ALL WORK WITHIN PUBLIC RIGHT-OF-WAY.
10. TURF AREA SPRINKLERS THAT ARE DISTURBED BY THE CONTRACTOR SHOULD BE COORDINATED WITH CLARK COUNTY SCHOOL DISTRICT LANDSCAPING AND GROUNDS FOR ANY NECESSARY REVISED LAYOUTS. CONTRACTOR TO IMMEDIATELY RELOCATED SPRINKLER IRRIGATION LINES OR SUPPLY WATER PUMPS AND ASSOCIATED ELECTRICAL TO ENSURE THE TURF AREAS ARE WATERED THROUGH OUT THE DURATION OF THE PROJECT.
11. AN OFF-SITE PERMIT IS REQUIRED PRIOR TO WORK COMMENCING WITHIN PUBLIC RIGHT-OF-WAY.

SANITARY SEWER CONTRIBUTION (ESTIMATE)

AVERAGE DAILY FLOW = 0.0719 CFS
PEAK FLOW = 0.248 CFS



GRAPHIC SCALE

(IN FEET)

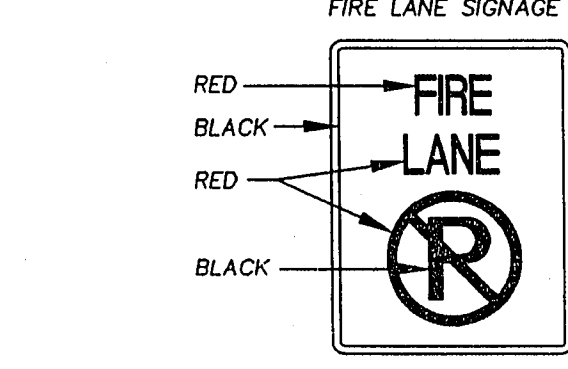
1 inch = 30 ft.

NOT A PART
WASHINGTON ADDITION NO. 2
(BOOK 7, PAGE 48)

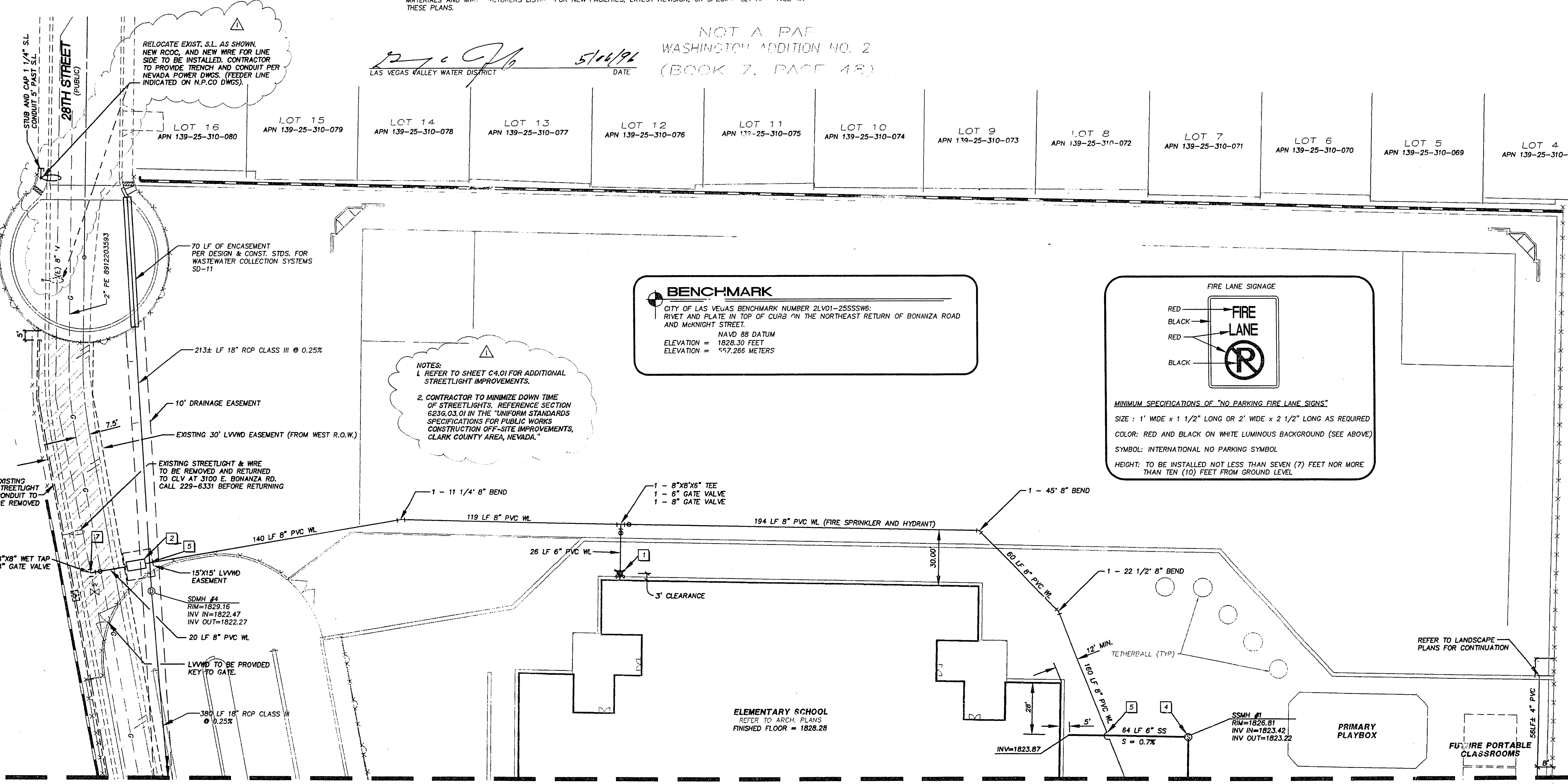
5/6/96
DATE

BENCHMARK

CITY OF LAS VEGAS BENCHMARK NUMBER 2LV01-2555SW:
RIVET AND PLATE IN TOP OF CURB ON THE NORTHEAST RETURN OF BONANZA ROAD AND MCKNIGHT STREET.
NAVD 88 DATUM
ELEVATION = 1828.30 FEET
ELEVATION = 557.266 METERS



MINIMUM SPECIFICATIONS OF "NO PARKING FIRE LANE SIGNS"
SIZE: 1' WIDE x 1 1/2' LONG OR 2' WIDE x 2 1/2' LONG AS REQUIRED
COLOR: RED AND BLACK ON WHITE LUMINOUS BACKGROUND (SEE ABOVE)
SYMBOL: INTERNATIONAL NO PARKING SYMBOL
HEIGHT: TO BE INSTALLED NOT LESS THAN SEVEN (7) FEET NOR MORE THAN TEN (10) FEET FROM GROUND LEVEL



MATCHLINE SEE SHEET C5.02

REVISIONS

REV	DESCRIPTION	DATE	BY
1	STREETLIGHT AND SL NOTE REVISIONS PER CLV	5/22/96	VRH

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SEAL

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CLARK COUNTY SCHOOL DISTRICT
CONSTRUCTION MANAGEMENT
4828 PEARL ST.
LAS VEGAS, NEVADA 89121

28TH AND HARRIS
ELEMENTARY SCHOOL
UTILITY PLAN

SHEET NO.
C5.01
SHEET 14 OF 17
JOB NO. F1843
FILE NO. 843UT.DWG BR-1T1

715-92