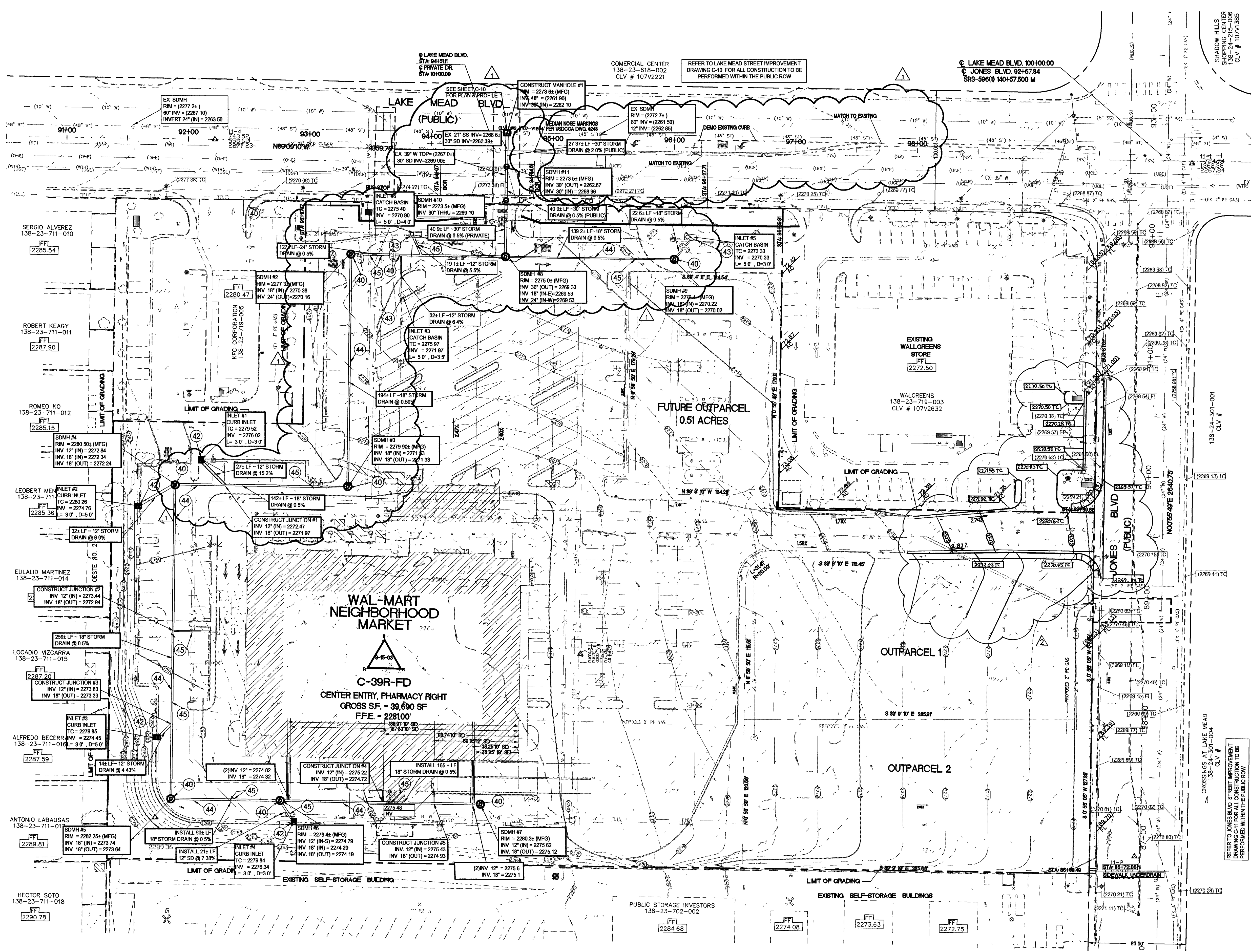




LEGEND AND ABBREVIATION

- FLOW DIRECTION AND AMOUNT
- P-STORM-COMBINATION CURB-INLET
- P-STORM-AREA-INLET
- P-STORM-CURB-INLET 5FT
- P-STORM-CURB-INLET 10FT
- P-STORM-CURB-INLET 15FT
- P-STORM-STANDPIPE
- P-STORM-INLET-TEMPORARY
- P-STORM-MH

STORM DRAIN CONSTRUCTION NOTES

- 40 CONSTRUCT STORM DRAIN MANHOLE PER DETAIL 1, CD-2.1
- 41 NOT USED
- 42 CONSTRUCT GRATED CURB INLET PER DETAIL 3, CD-2.1
- 43 CONSTRUCT CURB OPENING CATCH BASIN PER DETAIL 4, CD-2.1
- 44 INSTALL STORM DRAIN PIPE PER DETAIL 5, CD-2.1
- 45 FOR STORM / SEWER / WATER CROSSING, SEE DETAIL ON SHT C-5.0
- 46 INSTALL EXTERIOR DOWNSPOUT COLLECTOR PER BUILDING PLANS
- 47 CONSTRUCT TEMPORARY DROP INLET PER DETAIL 8, CD-2.1
- 48 INSTALL 12" TRENCH DRAIN PER DETAIL 9, CD-2.1

NOTE: HYDRAULIC CAPACITIES FOR STORMSEWER PIPES WERE CALCULATED USING A MANNING'S "n" VALUE OF 0.013.

A PARTIAL LIST OF ACCEPTABLE STORMSEWER PIPES CAPABLE OF PROVIDING THE SAME EFFICIENCY FOR THIS APPLICATION ARE AS FOLLOWS:

- A) CONTECH "D-2000" PVC STORMSEWER PIPE
- B) ADVANCED DRAINAGE SYSTEMS, INC. "N-12" H.D.P.E. STORMSEWER PIPE
- C) HANCOR "H-10" H.D.P.E. STORMSEWER PIPE
- D) REINFORCED CONCRETE PIPE CLASS III CONFORMING TO ASTM SPECIFICATION C-76. JOINTS SHALL CONFORM TO ASTM SPECIFICATION C-443.

* CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER PIPE INSTALLATION AND EMBEDMENT

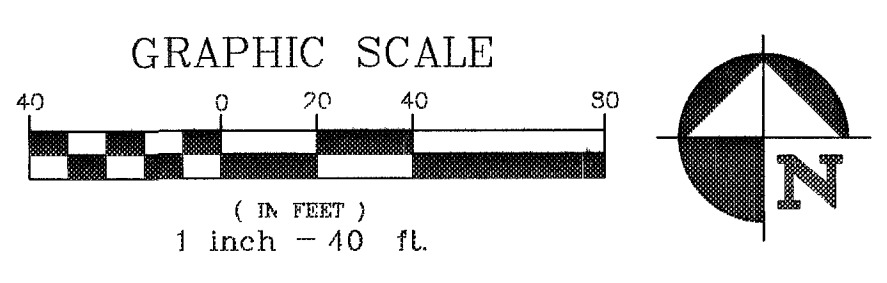
** CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER FOR THE INSTALLATION OF ALTERNATE PIPING MATERIALS

GENERAL NOTES:
1. THE ON SITE STORM DRAIN IS OWNED AND IS TO BE PRIVATELY MAINTAINED BY WAL-MART

ALL WORK DONE WITHIN JONES BLVD. REQUIRES A NEVADA DEPARTMENT OF TRANSPORTATION (NDOT) PERMIT.

An approved NDOT Occupancy Permit shall be obtained through the District (SDOT) to any construction within the NDOT right-of-way. Plans showing work in NDOT right-of-way must show NDOT stationing. The Developer assumes all liability for work conducted under the District obtained permit through warranty expiration.

I CERTIFY THAT THIS GRADING PLAN CONFORMS TO THE APPROVED DRAINAGE STUDY FOR THIS SITE ON FILE AT THE CITY OF LAS VEGAS



UTILITY NOTE:
EXISTING UTILITIES SHOWN ON THIS PLAN REFLECT ONLY THOSE UTILITIES KNOWN, LOCATED OR RESEARCHED AND DOES NOT CONSTITUTE ALL EXISTING UTILITIES ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR CORRECT LOCATION AND VERIFICATION OF ALL EXISTING UTILITIES ON SITE. IN THE EVENT OF ANY DESIGN DISCREPANCIES THE CONTRACTOR IS TO NOTIFY THE CONSTRUCTION MANAGER PRIOR TO COMMENCEMENT OF CONSTRUCTION.

BENCHMARK:
BENCHMARK # 1 LY0024W4
RIVET + PLATE IN TOP OF CURB ON SOUTHEAST CORNER OF LAKE MEAD + JONES. NAVD 88
ELEVATION = 2268.51 FEET, 694.435 METERS
BASIS OF BEARING:
SOUTH 6° 55' 49" WEST ALONG THE EAST LINE THE NORTH-EAST QUARTER (NE 1/4) OF THE SOUTHEAST QUARTER (SE 1/4) OF SECTION 23, TOWNSHIP 20 SOUTH, RANGE 60 EAST, MDD +44

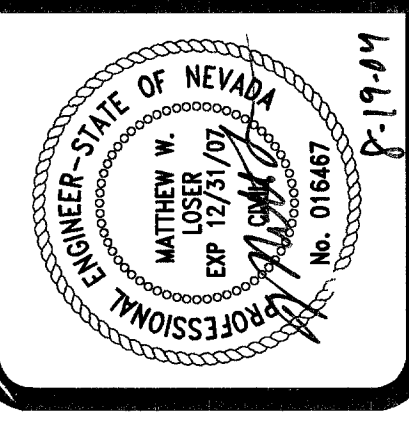
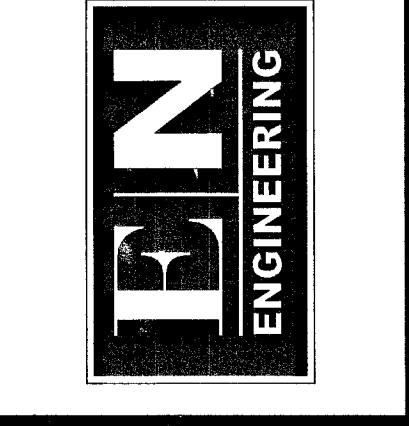
Call before you Dig. 1-800-227-2600

Call before you OVERHEAD. 1-702-227-2929

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUE DATE	8-1-04
2	ISSUE DATE	8-1-04
3	ISSUE DATE	8-1-04
4	ISSUE DATE	8-1-04
5	ISSUE DATE	8-1-04
6	ISSUE DATE	8-1-04
7	ISSUE DATE	8-1-04
8	ISSUE DATE	8-1-04
9	ISSUE DATE	8-1-04
10	ISSUE DATE	8-1-04

Planning/Civil Engineering/Surveying
1820 MAIN STREET, SUITE 200, IRVINE, CA 92614
TEL (949) 486-0777 FAX (949) 486-0779
240 E. WARM SPRINGS ROAD, SUITE 100, LAS VEGAS, NV 89119
TEL (702) 886-6004 FAX (702) 886-6005



JONES BOULEVARD AT LAKE MEAD BOULEVARD IMPROVEMENT PLANS
STORM DRAIN LAYOUT

WAL-MART NEIGHBORHOOD MARKET #5259-00 LAS VEGAS, NEVADA
WAL-MART STORES, INC. BENTONVILLE, AR

DRAWN BSN
CHECKED ML
EN JOB No. 01-541
REAL ESTATE APPROVAL DATE: 5/12/02
ORIGINAL ISSUE DATE: 10/15/03
PERMIT SET
ISSUE DATE: TBD
CONSTRUCTION SET
ISSUE DATE: TBD
SHEET C-7.0
9 OF 20 SHEETS