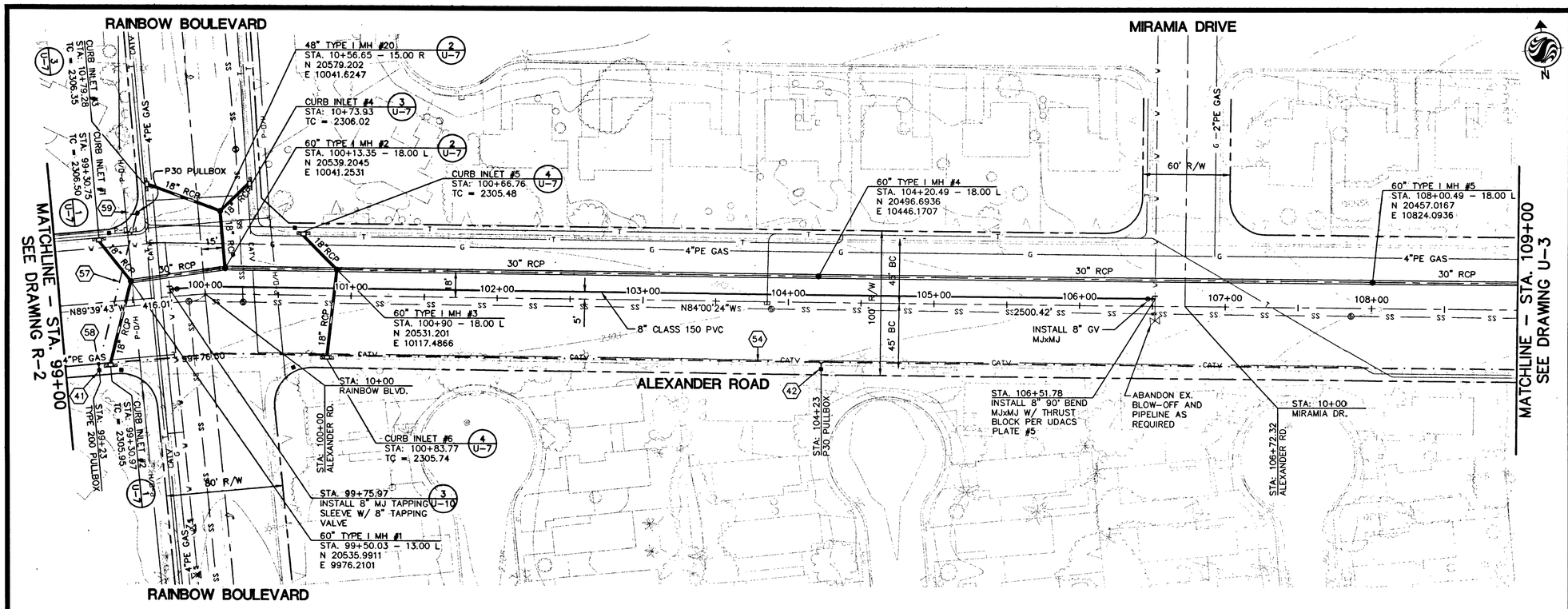

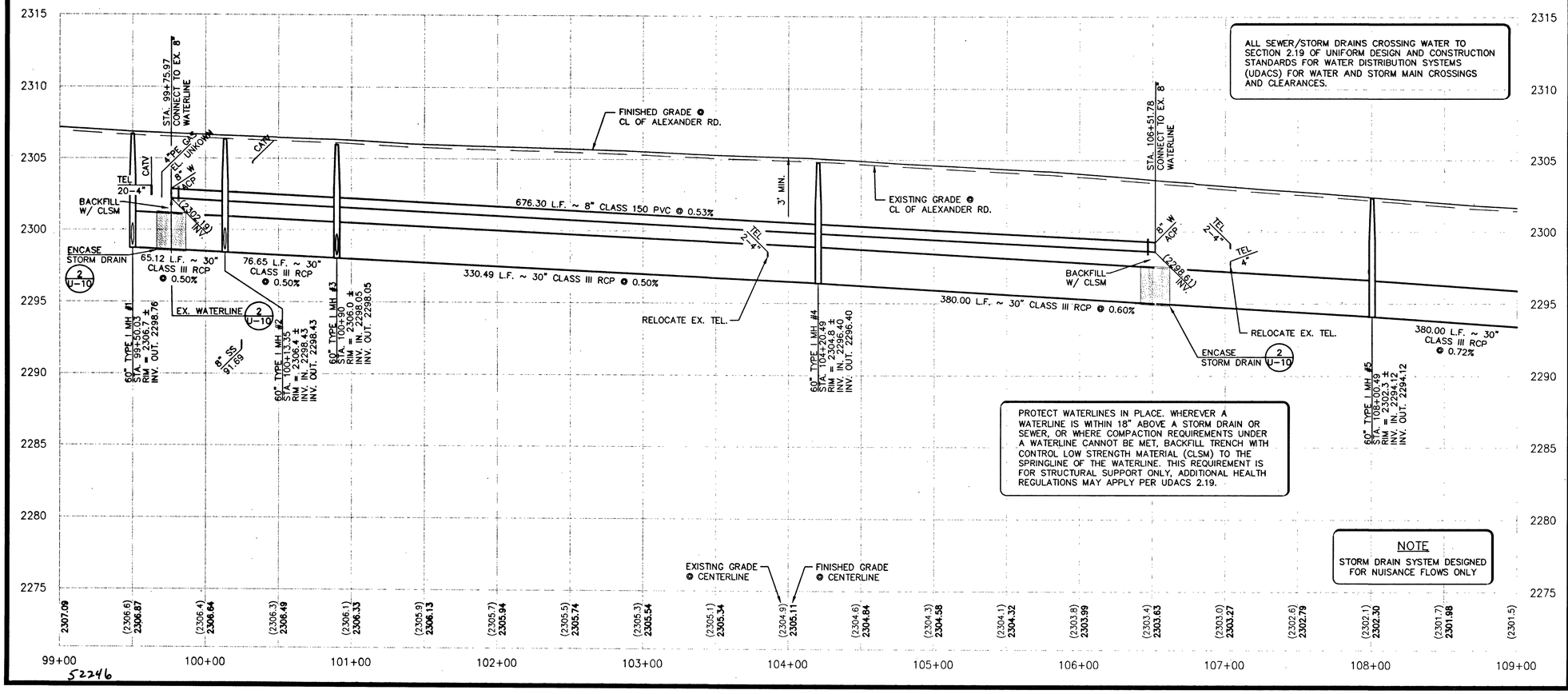

ALL SEWER/STORM DRAINS CROSSING WATER TO SECTION 2.19 OF UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.

PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS WITHIN 18" ABOVE A STORM DRAIN OR SEWER, OR WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CONTROL LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY, ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.19.

NOTE
STORM DRAIN SYSTEM DESIGNED FOR NUISANCE FLOWS ONLY

52246

Stantec Consulting Inc.
6763 W. Charleston Blvd.
Las Vegas NV U.S.A.
89146-1049
Tel. 702.258.0115
Fax. 702.258.4956
www.stantec.com

NOTES:

1. TIE BRANCH FIBER OPTIC INTO EXISTING CONTROLLER USING A FIBER OPTIC TRANCEIVER.

CONSTRUCTION NOTES:

- (41) TYPE 200 PULLBOX
- (42) P30 PULLBOX
- (54) 4" INTERCONNECT CONDUIT W/ 72 STRAND FIBER OPTIC WIRE
- (57) 3" INTERCONNECT CONDUIT W/ 12 STRAND FIBER OPTIC WIRE
- (58) FIBER OPTIC SPLICE
- (59) TIE BRANCH FIBER OPTIC INTO EXISTING CONTROLLER USING A FIBER OPTIC TRANCEIVER

LVVWD NOTES:

WHEN A WATER LINE IS LESS THAN EIGHTEEN (18) INCHES ABOVE A SEWER OR STORM DRAIN LINE OR ANYTIME A WATER LINE IS BELOW A SEWER OR STORM DRAIN LINE THE FOLLOWING PROVISIONS SHALL APPLY:

1) A REASONABLE EFFORT MUST BE MADE TO PLACE WATER AND SEWER PIPELINE JOINTS AN EQUAL DISTANCE FROM THE CROSSING POINT. THIS REQUIREMENT DOES NOT APPLY TO WELDED JOINTS.

2.) A MINIMUM VERTICAL SEPARATION OF SIX (6) INCHES MUST BE MAINTAINED AND STRUCTURAL SUPPORT IN THE FORM OF A CEMENT SLURRY ENCASEMENT WHICH WILL EXTEND UPWARD FROM THE SEWER/STORM DRAIN LINE TO THE SPRINGLINE OF THE WATER LINE.

3) THE CROSSING SHALL BE CONSTRUCTED USING ONE OF THE FOLLOWING OPTIONS:

a) THE SEWER LINE MUST BE CONSTRUCTED OF WATER SUPPLY QUALITY MATERIALS MEETING AWWA STANDARDS

b) THE SEWER OR WATER LINE SHALL BE TOTALLY ENCASED BY A MINIMUM FOUR (4) INCH THICK, 300 PSI CEMENT SLURRY, A DISTANCE OF TEN FEET ON EACH SIDE OF THE CROSSING MIDPOINT. THIS OPTION IS NOT AVAILABLE FOR ACP.

c) THE SEWER OR WATER LINE SHALL BE INSTALLED IN A SLEEVE OF WATER QUALITY PIPE OR STANDARD CASING, WITHOUT JOINTS, TEN FEET ON EACH SIDE.

LVVWD 4/14/03 DATE

1:40H 0 40' 60' 80'
1:4V 0 4' 6' 8'

Avoid overhead power line contact. It's costly.
Call before you OVERHEAD
1-702-593-6111

Avoid cutting underground utility lines. It's costly.
Call before you Dig
1-800-227-2600

NO.	DATE:	DESCRIPTION	APP'D
		REVISIONS	

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DESIGN SECTION
CITY ENGINEER: CHARLES KAJKOWSKI JR, P.E.
DESIGNED BY: JO,DD
DRAWN BY: DD
CHECKED BY: MW
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'
DATE: 06/11/02

TITLE: ALEXANDER ROAD
US 95 TO RANCHO DRIVE

SHEET: UTILITY PLAN + PROFILE
STA. 99+00 TO STA. 109+00

PROFESSIONAL ENGINEER - STATE OF NEVADA
MYRON R. WELSH
Exp. 06/30/04
CIVIL
No. 2646
4/14/03

Sheet U-2
20 of 35
DRAWING NO. 107-V3634