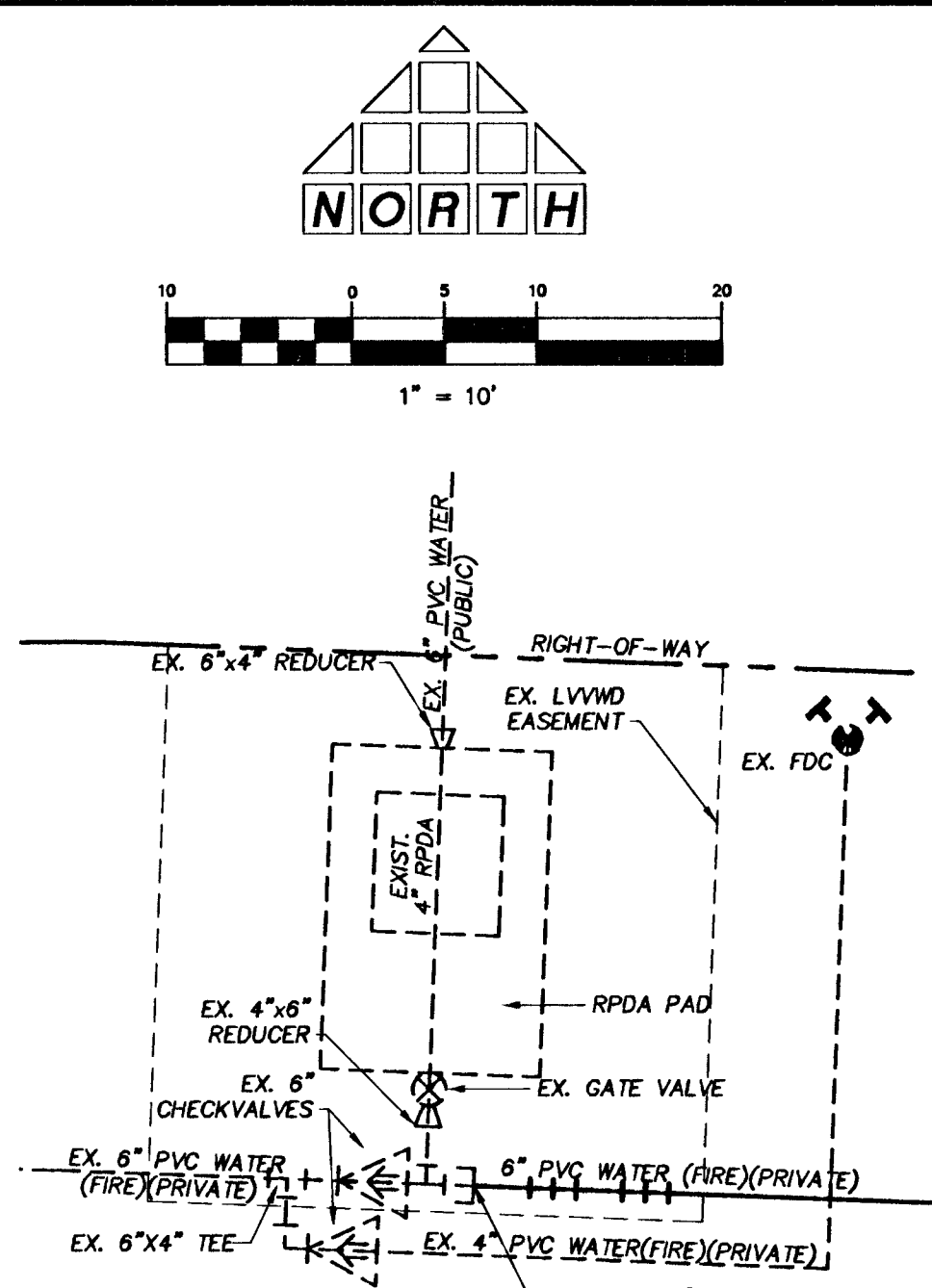
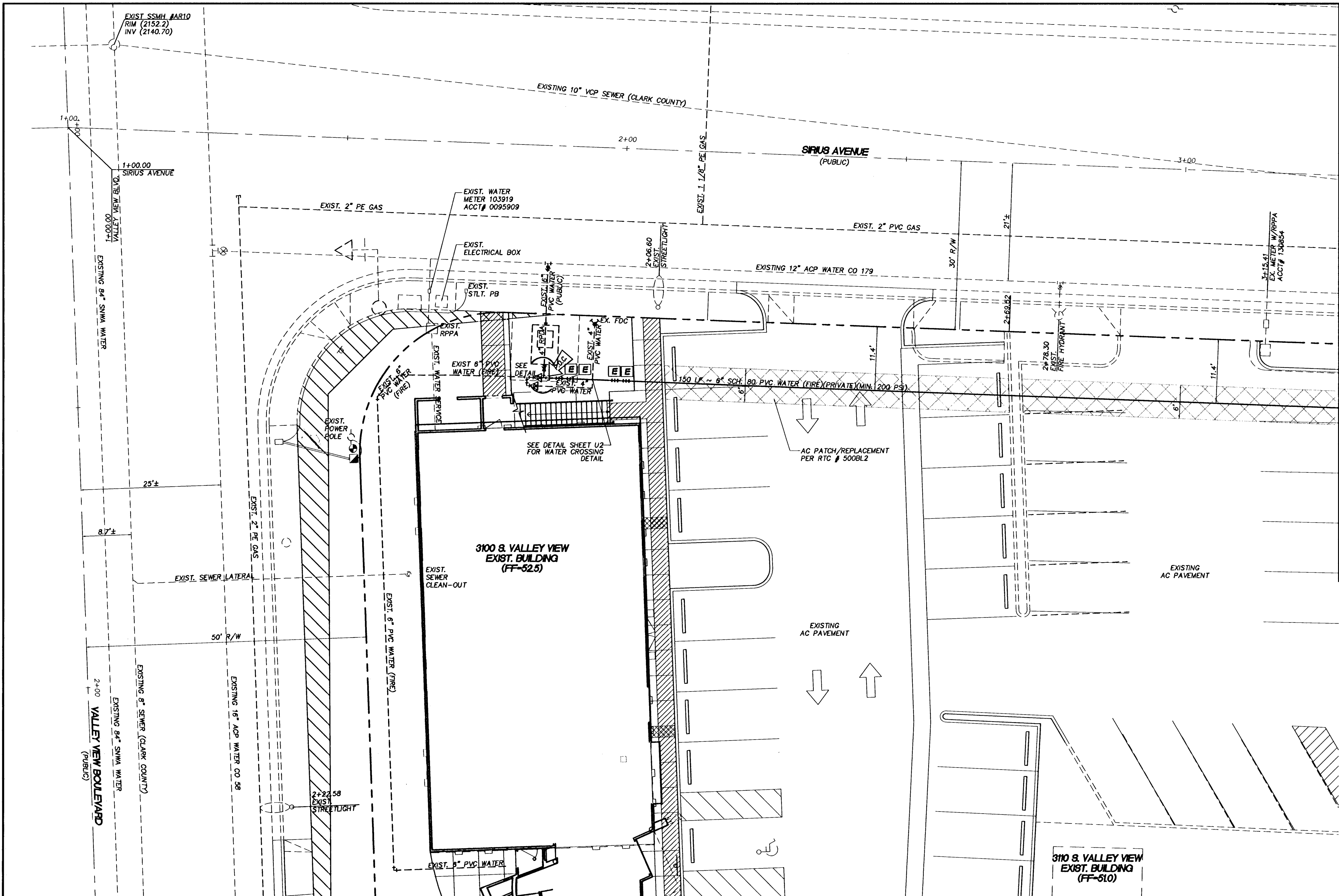




- LEGEND:**
- (S)— PROPOSED PVC SEWER MAIN WITH 4\"/>

**DISCLAIMER NOTE**

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATIONS.

NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES ARE ENCOUNTERED.

- UTILITY NOTES**
1. NOTIFY THOMASON CONSULTING ENGINEERS IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD.
  2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND VERIFY SIZE, MATERIAL, DEPTH, CONDITION, PRESSURE, AND LOCATION OF ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. THOMASON CONSULTING ENGINEERS SHALL BE CONTACTED ONE THE UTILITIES ARE LOCATED.
  3. PLANS MAY NOT INDICATE ALL EXISTING UTILITY LINES. CONTRACTOR IS TO EXERCISE EXTREME CAUTION DURING EXCAVATION IN ORDER TO AVOID DAMAGING ANY EXISTING UTILITY LINES. IF THE UTILITY LINES ARE DAMAGED BY THE CONTRACTOR, SUCH DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.
  4. CONTRACTOR TO SAWCUT AND REMOVE EXISTING ASPHALT AND CONCRETE AS NECESSARY FOR UTILITY TRENCHES, BACKFILL AND PATCH ALL TRENCHES ACCORDING TO CLARK COUNTY STANDARDS.
  5. ALL WATER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR DISTRIBUTIONS" (UDACS), LATEST EDITION.
  6. CONTRACTOR TO FIELD VERIFY LOCATION AND INVERT OF MANHOLE PRIOR TO CONSTRUCTION. THOMASON CONSULTING ENGINEERS SHALL BE CONTACTED ONCE THIS INFORMATION HAS BEEN OBTAINED.

**APPROVALS**

*[Signature]* 8/2/10  
 LAS VEGAS FIRE DEPARTMENT DATE

*[Signature]* 3RD UDACS  
 LAS VEGAS VALLEY WATER DISTRICT  
 ENGINEERING SERVICES MANAGER

DATE: 10/17/10 PROJECT # 116396

| WATER CONSTRUCTION NOTES AND QUANTITIES               |                                                                                           | PUBLIC | PRIVATE |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------|--------|---------|
| [A]                                                   | INSTALL FIRE HYDRANT ASSEMBLY PER UDACS STD. PLATE 40                                     | 1 EA   |         |
| [B]                                                   | INSTALL 6" CAP PER STD. PLATE 31                                                          |        | 1 EA    |
| [C]                                                   | INSTALL 6" TEE WITH THRUST BLOCKS PER UDACS STD. PLATE 31                                 |        | 3 EA    |
| [D]                                                   | INSTALL FIRE DEPARTMENT CONNECTION (FDC) PER CLV FIRE DEPARTMENT STANDARDS                |        | 2 EA    |
| [E]                                                   | INSTALL 6" 45° VERTICAL BEND WITH THRUST BLOCKS PER UDACS STD. PLATE 31                   |        | 8 EA    |
| [F]                                                   | INSTALL 6" 90° BEND WITH THRUST BLOCKS PER UDACS STD. PLATE 31                            |        | 4 EA    |
| [G]                                                   | INSTALL 6"x4" REDUCER WITH THRUST BLOCKS PER UDACS STD. PLATE 30                          |        | 2 EA    |
| [H]                                                   | INSTALL 6" CHECK VALVE PER UDACS STD. PLATE 39                                            |        | 2 EA    |
| [I]                                                   | INSTALL 4" CHECK VALVE PER UDACS STD. PLATE 39                                            |        | 2 EA    |
| [J]                                                   | INSTALL 4" 90° BEND WITH THRUST BLOCKS PER UDACS STD. PLATE 31                            |        | 2 EA    |
| [K]                                                   | INSTALL 4" 45° BEND WITH THRUST BLOCKS PER UDACS STD. PLATE 31                            |        | 2 EA    |
| [L]                                                   | INSTALL 6" POST INDICATOR VALVE (PIV) PER UDACS STD. PLATE 39                             |        | 2 EA    |
| [M]                                                   | INSTALL 12"x6" MJ OR APPROVED EQUAL TAPPING SLEEVE W/ 6" TAPPING VALVE PER UDACS PLATE 34 | 1 EA   |         |
| 6" SCHEDULE 80 PVC WATER LINE (MINIMUM 200 PSI RATED) |                                                                                           |        | 444 LF  |
| 4" PVC WATER LINE (MINIMUM 200 PSI RATED)             |                                                                                           |        | 10 LF   |

**CITY OF LAS VEGAS GENERAL NOTE**

"ALL ABOVE GROUND UTILITY APPURTENANCES SHALL CONFORM TO THE REQUIREMENTS OF TITLE 19.12.040."

DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH AWWA, LOCAL, STATE AND FEDERAL REGULATIONS

**SNWA CONSTRUCTION NOTE:**

CONTRACTOR SHALL FIELD LOCATE AND PROTECT ALL SNWA/SNWS APPURTENANCES INCLUDING, BUT NOT LIMITED TO AV/AR, ACCESS MANWAYS AND CATHODIC PROTECTION SYSTEMS. ALL ABOVE GROUND STRUCTURES AND AT GRADE STRUCTURES MUST BE ADJUSTED TO NEW GRADE AT CONTRACTOR'S EXPENSE. CATHODIC PROTECTION TEST STATIONS, RECTIFIERS, AND AV/AR'S MUST BE RELOCATED TO THE SIDEWALK PER SNWA STANDARDS AND AT THE CONTRACTOR'S EXPENSE. CONTRACTOR TO NOTIFY SOUTHERN NEVADA WATER AUTHORITY, DEVELOPMENT PLAN REVIEW, AT (702) 882-3444 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY.

*[Signature]* 9/28/10  
 SOUTHERN NEVADA WATER AUTHORITY

SNWA APPROVAL IS VALID FOR ONE (1) YEAR FROM THE SIGNATURE DATE. IF CONSTRUCTION WITHIN THE EASEMENT OR RESTRICTED PIPE SAFETY ZONE IS NOT COMPLETE, PLANS MUST BE RESUBMITTED TO SNWA FOR APPROVAL.

**BENCHMARK**

CITY OF LAS VEGAS BENCHMARK # 1LV11 8SW16 BEING A RIVET & PLATE IN TOP OF CURB @ THE NORTHEAST CORNER OF VALLEY VIEW AND SIRIUS.

ELEVATION: 655.9883 (FEET)  
 2152.19 (METERS)

NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

**BASIS OF BEARING**

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE WEST LINE OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER OF SECTION 8, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M. WHICH BEARS NORTH 02°04'21" WEST AS DETERMINED BY GLOBAL POSITIONING SYSTEM OBSERVATIONS WITH RESPECT TO THE SOUTHERN NEVADA HIGH ACCURACY NETWORK (HARN).

Call before you Dig  
 Avoid cutting underground utility lines. It's costly.

Call before you Overhead  
 Avoid overhead power line contact.

Call before you UnderGround  
 Avoid underground utility lines. It's costly.

1-800-227-2600  
 CLARK COUNTY TRAFFIC OPERATIONS  
 1-702-445-7544  
 NEVADA POWER ENVIRONMENT  
 SAFETY SERVICES DEPARTMENT

**FIRE FLOW CALCULATIONS**

FIRE FLOW REQUIREMENT IS: 1500 GALLONS PER MINUTE AT 20 PSI RESIDUAL PRESSURE.

BASED ON:

SQUARE FOOTAGE: 9280 SQUARE FEET

LARGEST AREA BETWEEN 4'-HOUR

AREA SEPARATION WALLS: SQUARE FEET

BUILDING HEIGHT: 35 FEET

NUMBER OF STORIES: 2 FLOORS

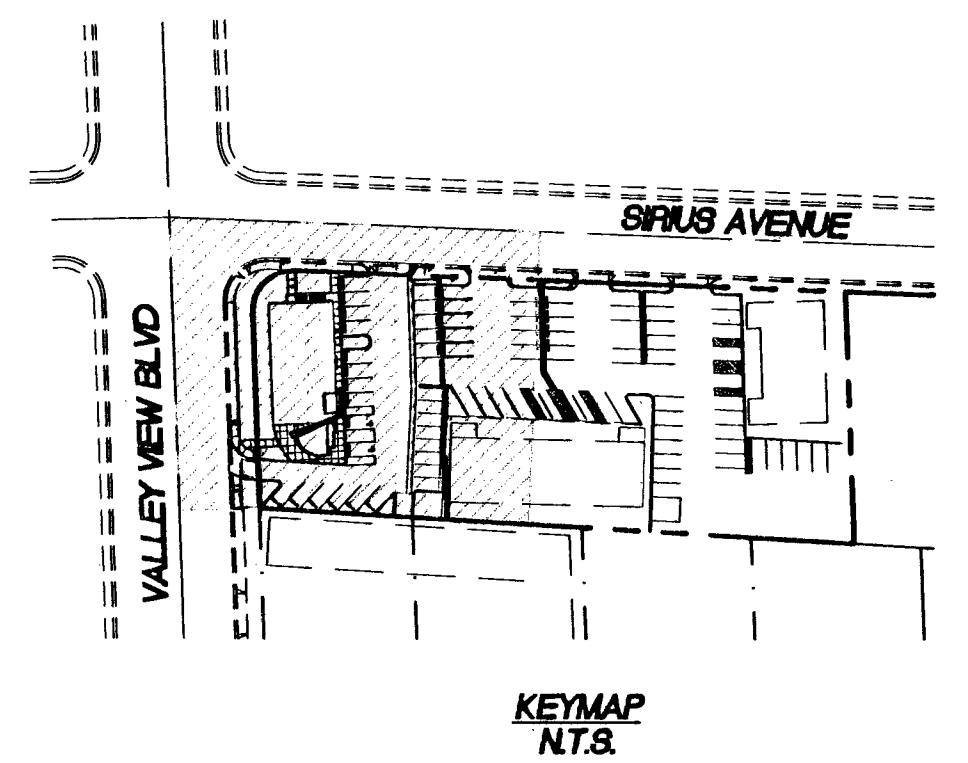
TYPE OF CONSTRUCTION: II-B

OCCUPANCY: COMMERCIAL

FULL AUTOMATIC FIRE SPRINKLER SYSTEM: YES

REVIEWED BY:

DATE:



THOMASON CONSULTING ENGINEERS

3277 E. WARM SPRINGS ROAD, SUITE 400  
 LAS VEGAS, NEVADA 89120  
 702-932-6125 FAX: 702-932-6129

WORLD WELLNESS GROUP, LLC

3010 LA MESA DRIVE, HENDERSON, NV 89014

PH: (702) 595-4761

WORLD WELLNESS TENANT IMPROVEMENTS

UTILITY PLAN

KURT R. JOHANSEN  
 Exp. 6-30-11  
 CIVIL

SHEET

**U1**

4 OF 5

DRAWING NO. 107V5523

HH 3784

DESIGNED BY: BP 12-25-10

CHECKED BY: BP 12-25-10

COMMENTS ADDRESSED BY:

PROJECT NO. 081.10002

REV. DATE BY

REVISION