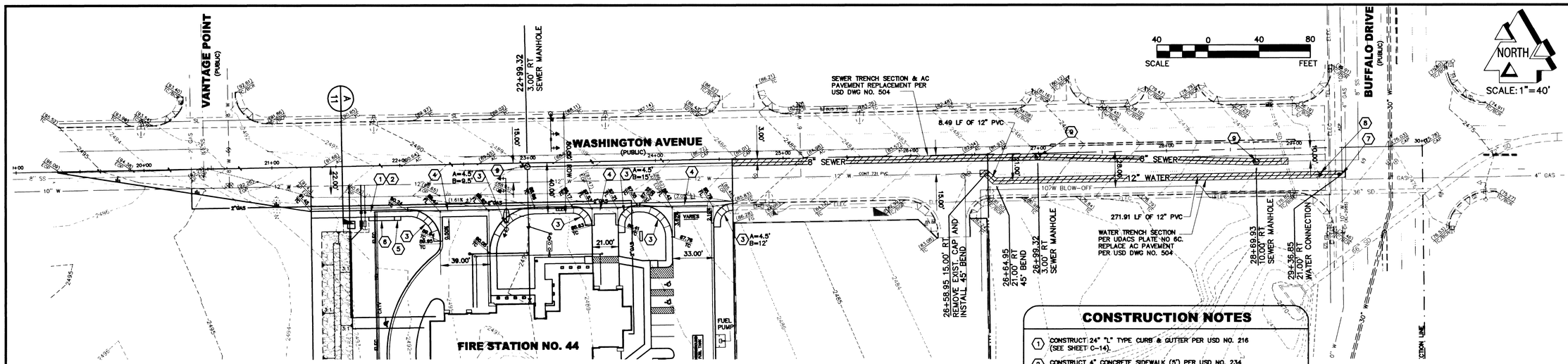


WASHINGTON AVENUE

HORIZ. 1" = 40"
VERT. 1" = 4'

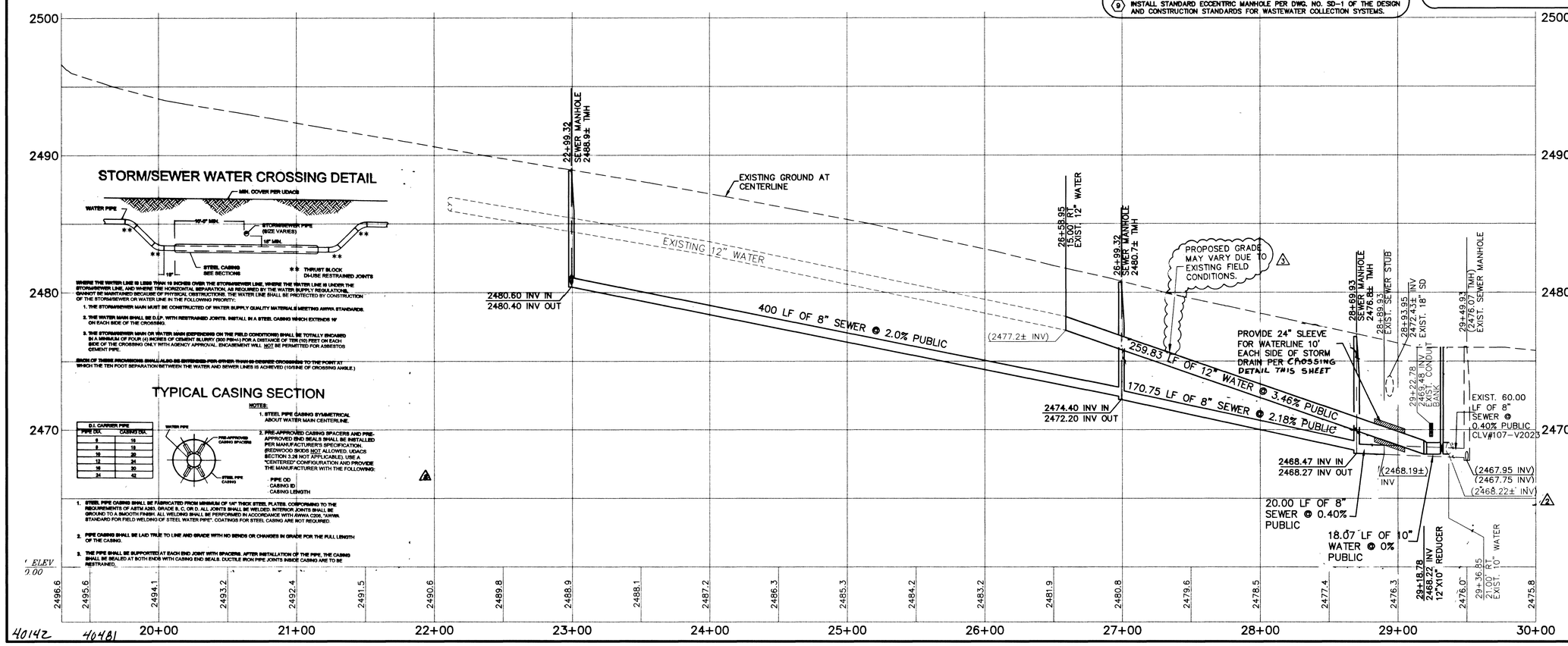
CONSTRUCTION NOTES

1. CONSTRUCT 24" "L" TYPE CURB & GUTTER PER USD NO. 216 (SEE SHEET C-14).
2. CONSTRUCT 4" CONCRETE SIDEWALK (5') PER USD NO. 234 (SEE SHEET C-14).
3. CONSTRUCT SIDEWALK RAMP PER USD NO. 235. (CASE I, A=8', B=8' UNLESS OTHERWISE NOTED) (SEE SHEET C-14).
4. CONSTRUCT COMMERCIAL DRIVEWAY PER USD NO. 222A (SEE SHEET C-14).
5. CONSTRUCT BUS STOP LOADING PAD PER USD NO. 234.2 (SEE SHEET C-16).
6. BUS SHELTER PAD TO BE CONSTRUCTED BY OTHERS.
7. CONNECT TO EXIST. 10" WATER MAIN WITH 10" 90° ELBOW & 10" GATE VALVE.
8. INSTALL 10"X12" ECCENTRIC REDUCER.
9. INSTALL STANDARD ECCENTRIC MANHOLE PER DWG. NO. SD-1 OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS.

APPROVALS

FIRST APPROVAL 9/27/01

LAS VEGAS VALLEY WATER DISTRICT — DATE 4/22/02



STORM/SEWER WATER CROSSING DETAIL

WHERE THE WATER LINE IS LESS THAN 18 INCHES OVER THE STORMSEWER LINE, WHERE THE WATER LINE IS UNDER THE STORMSEWER LINE, AND WHERE THE HORIZONTAL SEPARATION, AS REQUIRED BY THE WATER SUPPLY REGULATIONS, CANNOT BE MAINTAINED BECAUSE OF PHYSICAL OBSTRUCTIONS, THE WATER LINE SHALL BE PROTECTED BY CONSTRUCTION OF THE STORMSEWER OR WATER LINE IN THE FOLLOWING PRIORITY:

1. THE STORMSEWER MAIN MUST BE CONSTRUCTED OF WATER SUPPLY QUALITY MATERIALS MEETING AWWA STANDARDS.
2. THE WATER MAIN SHALL BE D.I.P. WITH RESTRAINED JOINTS. INSTALL IN A STEEL CASING WHICH EXTENDS 10' ON EACH SIDE OF THE CROSSING.
3. THE STORMSEWER MAIN OR WATER MAIN (DEPENDING ON THE FIELD CONDITIONS) SHALL BE TOTALLY ENCASED IN A MINIMUM OF FOUR (4) INCHES OF CEMENT SLURRY (300 PSI+/-) FOR A DISTANCE OF TEN (10) FEET ON EACH SIDE OF THE CROSSING ONLY WITH AGENCY APPROVAL. ENCASEMENT WILL NOT BE PERMITTED FOR ASBESTOS CEMENT PIPE.

EACH OF THESE PROVISIONS SHALL ALSO BE EXTENDED FOR OTHER THAN 90 DEGREE CROSSINGS TO THE POINT AT WHICH THE TEN FOOT SEPARATION BETWEEN THE WATER AND SEWER LINES IS ACHIEVED (10/SINE OF CROSSING ANGLE.)

TYPICAL CASING SECTION

O.D. CARRIER PIPE	
PIPE DIA.	CASING DIA.
6	16
8	18
10	20
12	24
16	30
24	42

NOTES:

1. STEEL PIPE CASING SYMMETRICAL ABOUT WATER MAIN CENTERLINE.
2. PRE-APPROVED CASING SPACERS AND PRE-APPROVED END SEALS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATION. (REDWOOD SKIDS NOT ALLOWED. UDACS SECTION 3.26 NOT APPLICABLE) USE A "CENTERED" CONFIGURATION AND PROVIDE THE MANUFACTURER WITH THE FOLLOWING:
   - PIPE OD
   - CASING ID
   - CASING LENGTH

1. STEEL PIPE CASING SHALL BE FABRICATED FROM MINIMUM OF 1/4" THICK STEEL PLATES, CONFORMING TO THE REQUIREMENTS OF ASTM A283, GRADE B, C, OR D. ALL JOINTS SHALL BE WELDED. INTERIOR JOINTS SHALL BE GROUND TO A SMOOTH FINISH. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C206, "AWWA STANDARD FOR FIELD WELDING OF STEEL WATER PIPE". COATINGS FOR STEEL CASING ARE NOT REQUIRED.
2. PIPE CASING SHALL BE LAID TRUE TO LINE AND GRADE WITH NO BENDS OR CHANGES IN GRADE FOR THE FULL LENGTH OF THE CASING.
3. THE PIPE SHALL BE SUPPORTED AT EACH END JOINT WITH SPACERS. AFTER INSTALLATION OF THE PIPE, THE CASING SHALL BE SEALED AT BOTH ENDS WITH CASING END SEALS. DUCTILE IRON PIPE JOINTS INSIDE CASING ARE TO BE RESTRAINED.

Avoid cutting underground utility lines. It's costly.
Call before you Dig.
1-800-227-2600
UNDERGROUND SERVICE (USA)

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!
CALL BEFORE YOU DO OVERHEAD
1-702-593-6111

REV	DESCRIPTION	BY	DATE	APP.	DATE
A	REVISED WATER NOTE REVISED WATER PROFILE	LG	5/16/02		

PROJ NO:	AZ01002
DESIGN:	RAC/LG
DATE:	10/30/01
SCALE:	AS SHOWN
FILE:	FS44_08

PROFESSIONAL ENGINEER-STATE OF NEVADA — ALLEN R. PAVELKA — CIVIL — No. 9029
STAMP DATE: 4-22-02

AZTEC ENGINEERING
3320 N Buffalo Dr. # 106, Las Vegas, NV 89129
Tel (702) 396-3426 Fax (702) 396-3758
Email: aztec@aztecengcom

CITY OF LAS VEGAS
FIRE STATION NO. 44

PLAN & PROFILE
WASHINGTON AVENUE

SHEET C-8
8 OF 20 SHEETS

CLV DRAWING NO. 630.97

40142 40481 Replot

F:\az01002\wg\fs44_08.dwg, 04/22/02 09:49:20 AM, Lizzie Grace