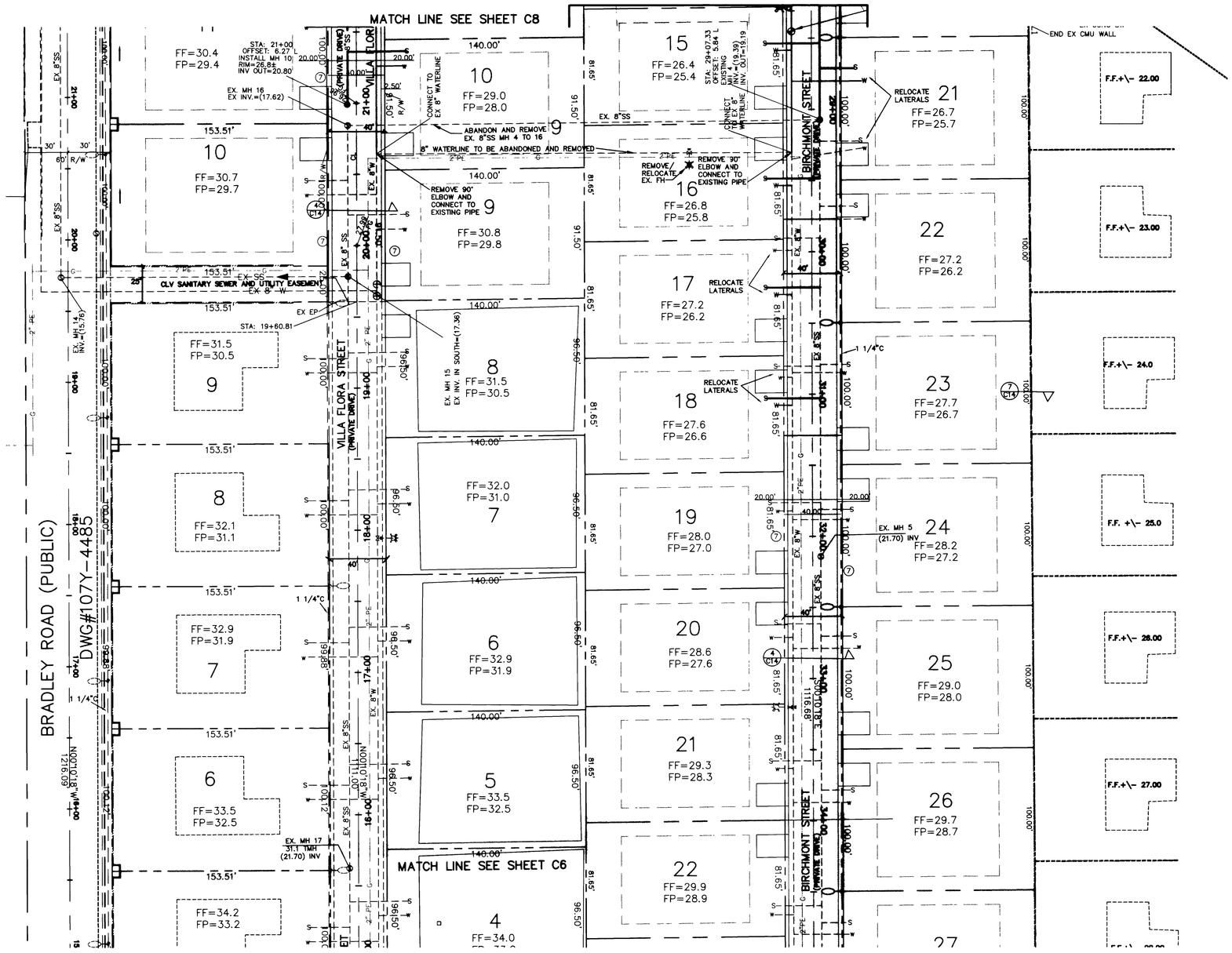

N

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft.

LAS VEGAS VALLEY WATER DISTRICT NOTES LVVWD PROJECT # 25229

1. NO WORK SHALL BEGIN UNTIL THE WATER PLANS HAVE BEEN RELEASED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, 48 HOURS NOTICE SHALL BE GIVEN TO THE LVVWD 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 LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.

2. ALL WORK SHALL CONFORM TO LVVWD 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 LVVWD.

5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE COPPER TUBING WITH LVVWD 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 LVVWD'S DISTRIBUTION SYSTEM.

11. THE CONTRACTOR MUST OBTAIN ALL METERS TWO(2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 FORTY-EIGHT(48)HOURS PRIOR TO PICKUP.

12. CONSTRUCTION MAY INTERUPT SERVICE, WITH LVVWD APPROVAL AND PROPER NOTIFICATION, BETWEEN THE HOURS OF 10 PM AND 6 AM, SUNDAY THROUGH THURSDAY. CIRCUMSTANCES MAY REQUIRE TEMPORARY SERVICES FEEDS BE INSTALLED, WITHOUT LVVWD REIMBURSEMENT. ANY TEMPORARY SERVICE FEED MUST HAVE PRIOR LVVWD APPROVAL.

13. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD'S PRE-APPROVED MATERIALS AND MANUFACTURERS LISTING FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT DATE

ESTIMATE OF PUBLIC QUANTITIES

8" W	853 LF
FH NEW COMPLETE UDACS 7	1 EA
FH RELOCATE COMPLETE UDACS 7	1 EA
NEW 3/4" WATER METER PER UDACS 1B	11 EA
RELOCATE 3/4" WATER METER UDACS 1B	12 EA
REMOVE/ABANDON 3/4" SERVICE LATERAL	7 EA
8" SS	1130 LF
MH>6'	2 EA
MH<6'	4 EA
NEW 4" SS LATERAL	18 EA
RELOCATE 4" SEWER LATERAL	4 EA
REMOVE/ABANDON 4" SEWER LATERAL	5 EA

NOTES

1. EXISTING WILLOWDALE PARK IMPROVEMENTS PER DWG#107Y-44785
2. SEE SHEET C4 FOR LINE AND CURVE TABLES.
3. ALL PRIVATE DRIVES ARE P.U.E.'S, PUBLIC SEWER EASEMENTS, AND PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED.

CONSTRUCTION NOTES

1. CONTRACTOR TO REPAIR OR REPLACE ALL EXISTING SITE ITEMS DAMAGED DURING CONSTRUCTION TO ORIGINAL CONDITION.

2. CONTRACTOR TO ADJUST ALL EXISTING METERS, VAULTS, MANHOLES AND SITE ITEMS TO FINISHED GRADE.

3. CONTRACTOR TO FIELD VERIFY LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

4. DELTA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO THE WATER, FIRE, SANITARY SEWER, TELEPHONE, POWER, GAS AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE AND THE PROJECT ENGINEER IMMEDIATELY.

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW IS: 1500 GPM AT 20 PSI RESIDUAL PRESSURE

BASED ON:	3500 SF
SQUARE FOOTAGE:	3500 SF
LARGE AREA BETWEEN 4-HR AREA SEPARATION WALLS:	3500 SF
BUILDING HEIGHT	1-STORY
NUMBER OF STORIES:	1 FLOORS
OCCUPANCY:	R-1
FULL AUTOMATIC FIRE SYSTEM:	NO
CONSTRUCTION TYPE	V-N

CITY OF LAS VEGAS FIRE DEPT. 3.26.01 DATE

BENCHMARK

CITY OF LAS VEGAS # 46, 1LV00 12N4, BEING A RIVET AND PLATE IN WATER METER PAD, 5401 W. ALEXANDER ROAD AT BRADLEY ROAD. N.A.V.D. 88 DATUM ELEVATION 681.6670 METERS (2236.4358 FEET).

BASIS OF BEARINGS

NORTH 00°10'18" WEST BEING THE BEARING OF THE WEST LINE OF THE NORTHWEST QUARTER OF SECTION 1, TOWNSHIP 20S, RANGE 60E, M.D.M., WEST LINE ALSO BEING THE CENTERLINE OF BRADLEY ROAD AS SHOWN ON BOOK 79 PAGE 9 OF PLATS OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

LEGEND

EXISTING	PROPOSED		EXISTING	PROPOSED	
		RIGHT-OF-WAY			RETAINING WALL
		PROPERTY LINE			CHAIN LINK FENCE
		CENTERLINE			GRADE BREAK
-W-	-W-	WATER LINE			WIRE FENCE
-SS-	-SS-	SANITARY SEWER LINE		FF=0.00	FINISH FLOOR
-G-	-G-	GAS LINE	(0.00) C.O. INV.	0.00 C.O. INV.	CLEANOUT INVERT ELEV.
-SD-	-SD-	STORM DRAIN		0.00	FLOW LINE
		POWER LINE/POWER POLE	(0.00) FG	0.00 FG	FINISH GRADE
		TELEPHONE LINE	(0.00) TC	0.00 TC	TOP OF CURB
		FIRE HYDRANT	(0.00) TOW	0.00 TOW	TOP OF WALL
		WATER VALVE			GATE
		METERS/PULL BOXES			SIGN
		REDUCER		STREET LIGHTS	
		MANHOLE			100 W H.P.S.
CO	CO	CLEANOUT			150 W H.P.S.
(00)		CONTOUR			200 W H.P.S.
		A.C. PAVING			250 W H.P.S.
		TYPE "L" CURB & GUTTER			
		TYPE "A" CURB			
		CONCRETE			

AVOID CUTTING UNDERGROUND UTILITY LINES. IT'S COSTLY.
Call before you Dig— 1-800-227-2600
UNDERGROUND SERVICE ALERT (U.S.A.)

AVOID OVERHEAD POWER LINE CONTACT
Call before you OVERHEAD 1-702-593-6111
NEVADA POWER ENVIRONMENT AND SAFETY SERVICES DEPARTMENT

DELTA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXIST IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT, OWNER'S REPRESENTATIVE OR ENGINEER IMMEDIATELY.

32138

REV	DATE	BY	REVISION

EMERALD DEVELOPMENT
1304 ALPINE DRIVE
BOULDER CITY, NEVADA 89005
(702) 293-1819

DELTA ENGINEERING
3137 MEADE AVENUE, SUITE D
LAS VEGAS, NV. 89102
(702) 364-9777 FAX (702) 364-9333
E-MAIL: ENGRDELTA@AOL.COM

SHEET: UTILITY PLAN SHEET

TITLE: WILLOWDALE PARK UNIT I AND II

DRAWN BY: ACADD 12/28/99
DESIGNED BY: WSC 12/28/99
CHECKED BY: PPB 12/28/99
PROJECT NO: 99082
SCALE: 1"=40'

SEAL: PROFESSIONAL ENGINEER-STATE OF NEVADA WILLIAM S. CROCKETT CIVIL No. 6777

SHEET C7
7 OF 14 SHEETS

DRAWING NO. 307Y-4670