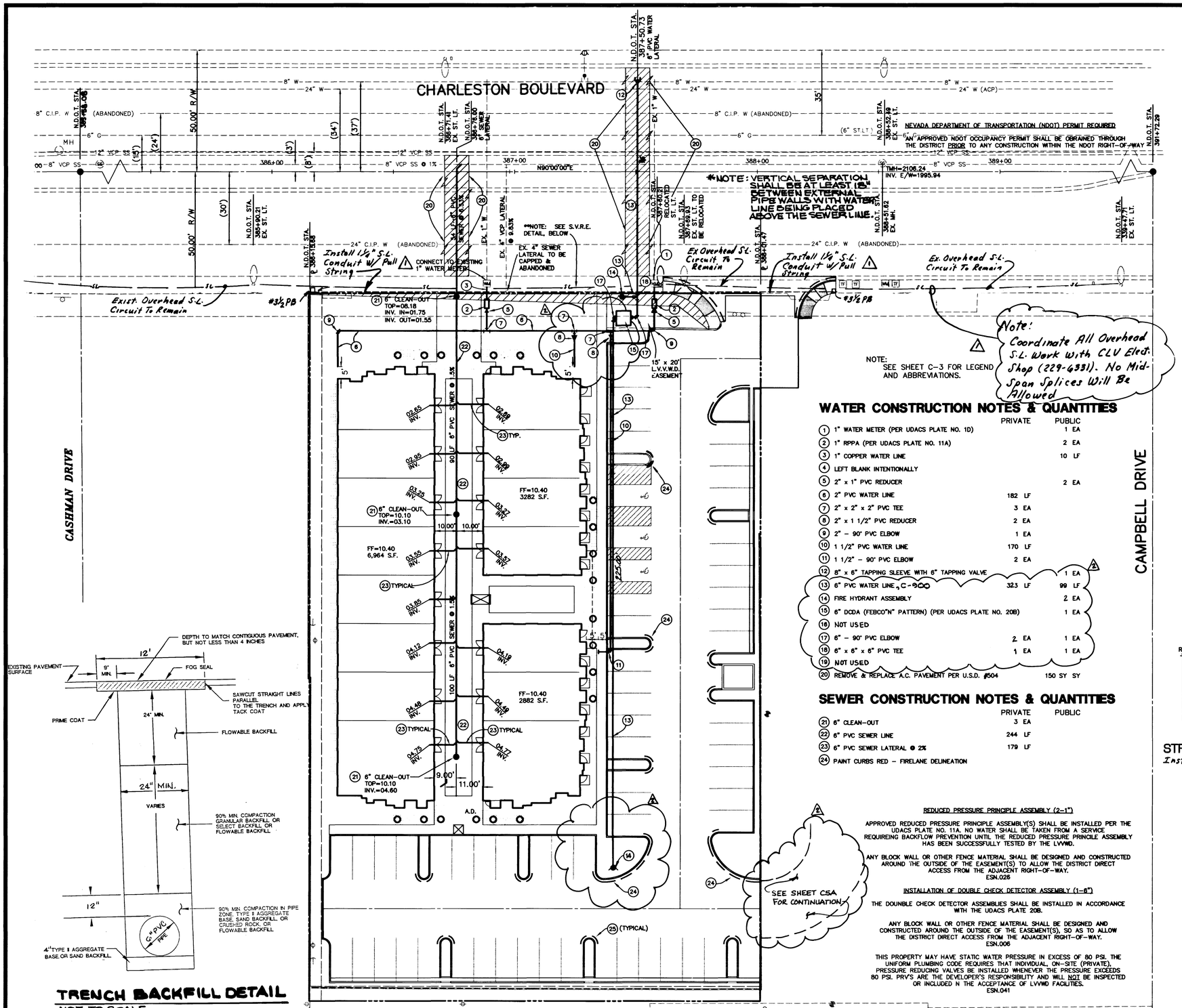


NOTE:
SEE SHEET C-3 FOR LEGEND AND ABBREVIATIONS.

WATER CONSTRUCTION NOTES & QUANTITIES

		PRIVATE	PUBLIC
1	1" WATER METER (PER UDACS PLATE NO. 1D)		1 EA
2	1" RPPA (PER UDACS PLATE NO. 11A)		2 EA
3	1" COPPER WATER LINE		10 LF
4	LEFT BLANK INTENTIONALLY		
5	2" x 1" PVC REDUCER		2 EA
6	2" PVC WATER LINE	182 LF	
7	2" x 2" x 2" PVC TEE	3 EA	
8	2" x 1 1/2" PVC REDUCER	2 EA	
9	2" - 90° PVC ELBOW	1 EA	
10	1 1/2" PVC WATER LINE	170 LF	
11	1 1/2" - 90° PVC ELBOW	2 EA	
12	8" x 6" TAPPING SLEEVE WITH 6" TAPPING VALVE		1 EA
13	6" PVC WATER LINE, C-900	323 LF	99 LF
14	FIRE HYDRANT ASSEMBLY		2 EA
15	6" DCDA (FEBCO"N" PATTERN) (PER UDACS PLATE NO. 20B)		1 EA
16	NOT USED		
17	6" - 90° PVC ELBOW	2 EA	1 EA
18	6" x 6" x 6" PVC TEE	1 EA	1 EA
19	NOT USED		
20	REMOVE & REPLACE A.C. PAVEMENT PER U.S.D. #504		150 SY SY

SEWER CONSTRUCTION NOTES & QUANTITIES

		PRIVATE	PUBLIC
21	6" CLEAN-OUT	3 EA	
22	6" PVC SEWER LINE	244 LF	
23	6" PVC SEWER LATERAL @ 2%	179 LF	
24	PAINT CURBS RED - FIRELANE DELINEATION		

REDUCED PRESSURE PRINCIPLE ASSEMBLY (2-1")

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIREING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCILE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.
ESN.028

INSTALLATION OF DOUBLE CHECK DETECTOR ASSEMBLY (1-6")

THE DOUBLE CHECK DETECTOR ASSEMBLIES SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE 20B.

ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S), SO AS TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY.
ESN.006

THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THAT INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRV'S ARE THE DEVELOPER'S RESPONSIBILITY AND WILL NOT BE INSPECTED OR INCLUDED N THE ACCEPTANCE OF LVVWD FACILITIES.
ESN.041

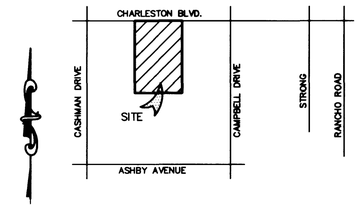
PROJECT NAME: OFFICE PROJECT @ Charleston/Campbell Dr - Pg C-5
This project water plan complies with the Las Vegas Valley Water District's technical requirements. However, this water plan is
NOT APPROVED FOR CONSTRUCTION
at this time and this signature does not provide or imply a water commitment.

LVVWD — DATE 9-16-98

BASIS OF BEARINGS

THE NORTH LINE OF THE NORTHEAST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER OF SECTION 5, TOWNSHIP 21 SOUTH, RANGE 61 EAST, M.D.M., ALONG THE 5th STANDARD PARALLEL SOUTH WHICH BEARS DUE EAST AS RECORDED ON THE RESUBDIVISION OF BLOCKS ONE (1), TWO (2), AND THREE (3), OF McNEIL TRACT, LAS VEGAS, NEVADA IN BOOK 2 OF PLATS, PAGE 93 OF CLARK COUNTY, NEVADA OFFICIAL RECORDS.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.



LOCATION

8" SEWER DISCHARGES INTO 45" SEWER AT CHARLESTON BLVD. AND RANCHO ROAD
SEE LOCATION MAP

SEWER CONTRIBUTION

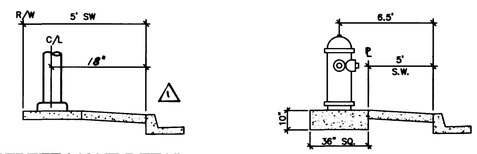
AVERAGE FLOW = 0.0029 MGD
PEAK FLOW = 0.0103 MGD

LAS VEGAS FIRE DEPARTMENT

FIRE FLOW IS 2250 GPM AT 20 PSI RESIDUAL PRESSURE

BASED ON:	TYPE V-N CONSTRUCTION-6,964 SF
SQUARE FOOTAGE:	13,128 SF TOTAL
AREA BETWEEN 4 HOUR AREA SEPARATION WALLS:	6,964 SF
BUILDING HEIGHT:	22'-4" MAX.
NUMBER OF STORIES:	1 STORY
OCCUPANCY:	OFFICE
FULL AUTOMATIC FIRE SYSTEM:	NO

CITY FIRE MARSHALL — DATE 9-16-98



STREET LIGHT DETAIL
Install Relocated Pole @ 18" BC

FIRE HYDRANT DETAIL

CONSTRUCTION NOTE:

ALL EXISTING UTILITY STRUCTURES WITHIN CONSTRUCTION AREA SHALL BE ADJUSTED TO MATCH FINISH GRADE (I.E. WV, BOX, WMH, ANNODE BOX, FH, TEL BOX, ETC.

NOTE:

ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.

CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND TO NOTIFY THE DESIGN ENGINEER IMMEDIATELY ON ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT — DATE 11/20/98

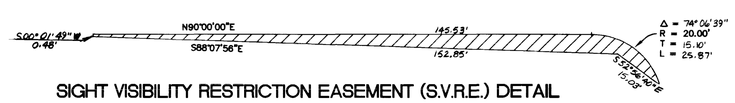
DISCLAIMER NOTE

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 LOCATION.

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

Avoid overhead power line contact Call before you OVERHEAD 1-702-593-6111 NEVADA POWER DEPARTMENT AND SAFETY SERVICES DEPARTMENT

TRENCH BACKFILL DETAIL
NOT TO SCALE



SIGHT VISIBILITY RESTRICTION EASEMENT (S.V.R.E.) DETAIL

REV	DATE	BY	REVISION
1	1-29-99		Lat. Add S.L. conduit & Ohd.
2	4/19/99		REVISED FIRE SPRINKLER SYSTEM AND S.L.

TERRA WEST DEVELOPMENT
2685 S. RAINBOW #201
LAS VEGAS, NV 89102
(702) 362-1004 / 362-8252

L. R. NELSON CONSULTING ENGINEERS, INC.
3035 East Patrick Lane Suite 6
Las Vegas, Nevada 89120
(702) 798-7978
(702) 451-2258 FAX
• STRUCTURAL
• CIVIL
• SURVEY

SHEET: MASTER UTILITY PLAN
TITLE: OFFICE PROJECT CHARLESTON / CAMPBELL

DRAWN BY: SLB/JSG
DESIGNED BY: PK
CHECKED BY:
PROJECT NO: 554-040-982
SCALE: 1" = 20'

SEAL

SHEET C5
5 OF 9 SHEETS
DRAWING NO. 107-V2912

11555 13450 15434

CHARLESTON BOULEVARD

CAPRELL DRIVE

BASIS OF BEARINGS

GRAPHIC SCALE

LOCATION

WATER CONSTRUCTION NOTES & QUANTITIES

SEWER CONSTRUCTION NOTES & QUANTITIES

SEWER CONNECTION

LAS VEGAS FIRE DEPARTMENT

STREET LIGHT DETAIL

FIRE HYDRANT DETAIL

CONSTRUCTION NOTE

DISCLAIMER NOTE

TRENCH BACKFILL DETAIL

RIGHT VISIBILITY RESTRICTION EASEMENT (SV/RE) DETAIL

TENTATIVE MAP DEVELOPMENT

SANITARY SEWER PLAN

CAPRELL PROJECT

CHARLESTON / CAPRELL

L.L. WILSON CONSULTING ENGINEERS, INC.