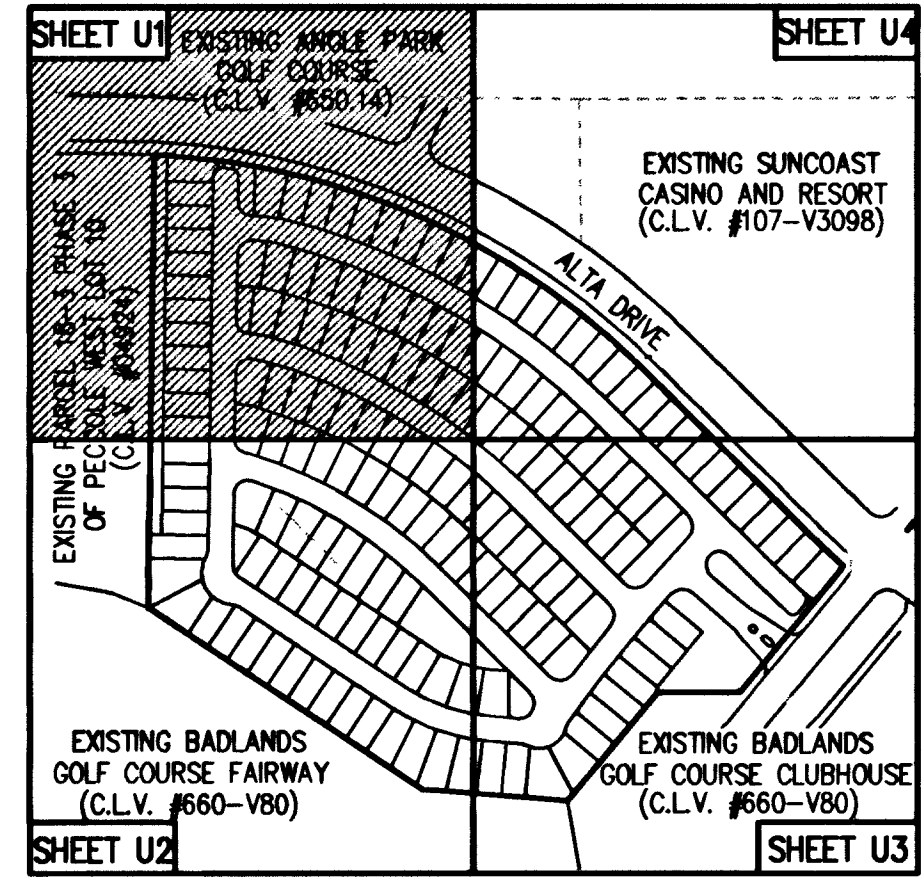


EXISTING ANGEL PARK GOLF COURSE (PER C.L.V. #650.14)



LOCATION MAP

SEWER MANHOLE CONTROL TABLE

EXISTING M.H. NUMBER	EXISTING TOP OF M.H.	EXISTING INV. (IN)	EXISTING INV.(OUT)	
#1	(2754.00)	(2744.22)	(2744.02)	
#2	(2754.95)	(2742.40)	(2742.20)	
#3	(2755.92)	-----	(2745.03)	
M.H. NO.	DIA.	TOP OF M.H.	INV.(IN)	INV.(OUT)
#1	48"	2757.60	2747.80	2747.60
#2	48"	2760.42	2753.62	2753.42
#3	48"	2764.32	2757.52	2757.32
#4	48"	2768.55	2761.75	2761.55
#5	48"	2772.83	2766.03	2765.83
#6	48"	2773.54	2766.74	2766.54
#7	48"	2773.62	-----	2767.30
#8	48"	2772.62	2765.61	2765.41
#9	48"	2772.43	2765.13	2764.93
#10	48"	2769.32	2762.52	2762.32
#11	48"	2766.20	2759.40	2759.20
#12	48"	2762.22	2755.42	2755.22
#13	48"	2764.18	2757.38	2757.18
#14	48"	2768.24	2761.44	2761.24
#15	48"	2771.53	2764.15	2763.95
#16	48"	2771.70	2764.49	2764.29
#17	48"	2770.68	2763.37	2763.17
#18	48"	2767.53	2760.73	2760.53
#19	48"	2766.01	2759.21	2759.01
#20	48"	2764.76	2757.96	2757.76

SCALE: 1"=30'



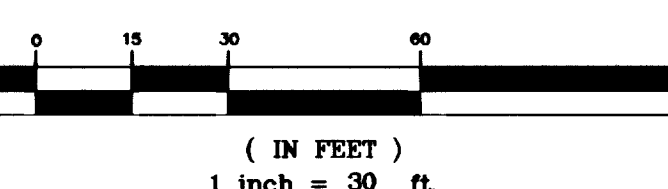
LEGEND

- EX.2"PE--- EXIST. GAS MAIN
- EX.8"S--- EXIST. SEWER MAIN
- EX.8"W--- EXIST. WATER MAIN
- 8"S--- PROP. SEWER MAIN
- 8"W--- PROP. WATER MAIN
- 1"--- PROP. 1" WATER SERVICE LATERAL (COPPER PIPE)
- 4"--- PROP. 4" SEWER SERVICE LATERAL (PVC PIPE)
- 8"--- EXIST. SEWER MANHOLE
- 8"--- PROP. SEWER MANHOLE
- 8"--- EXIST. FIRE HYDRANT W/ASSEMBLY
- 8"--- PROP. FIRE HYDRANT W/ASSEMBLY
- BWV--- BACK WATER VALVE REQUIRED
- SL--- PROP. STREET LIGHT
- SL--- EXIST. STREET LIGHT

CONSTRUCTION NOTES

- INSTALL FIRE HYDRANT W/ASSEMBLY PER UDS PLATE NO. 7
- INSTALL 8"x8" TEE W/THRUST BLOCK PER UDS PLATE NO. 5
- INSTALL 8"x6" TEE W/THRUST BLOCK PER UDS PLATE NO. 5
- INSTALL 11 1/4" ELBOW W/THRUST BLOCK PER UDS PLATE NO. 5
- INSTALL 22 1/2" ELBOW W/THRUST BLOCK PER UDS PLATE NO. 5
- INSTALL 45" ELBOW W/THRUST BLOCK PER UDS PLATE NO. 5
- INSTALL 90" ELBOW W/THRUST BLOCK PER UDS PLATE NO. 5
- INSTALL 8" GATE VALVE PER UDS PLATE NO. 3 & 8
- INSTALL 5/8" METER PER UDS PLATE NO. 18
- INSTALL CAP W/2" BLOW-OFF ASSEMBLY PER UDS PLATE NO. 4
- INSTALL 5/8" IRRIGATION METER W/1" RPPA PER UDS PLATE NO. 10 & 11A

NOTE:
FOR TYPICAL WATER AND SEWER LATERAL LOCATIONS SEE SHEET 13 OF 30



BASIS OF BEARING

THE BASIS OF BEARING FOR THIS PROJECT IS THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 31, TOWNSHIP 20 SOUTH, RANGE 60 EAST, M.D.B.M. WHICH BEARS NORTH 89°40'03" EAST AS SHOWN ON FILE #1, PAGE 27 OF PARCEL MAPS RECORDED IN THE COUNTY RECORDERS OFFICE OF CLARK COUNTY, NEVADA.

UTILITY INFORMATION

SEWAGE GENERATED: AVG. FLOW = 0.042 MGD
PEAK FLOW = 0.145 MGD
WATER PRESSURE ZONE: 2975 PZ

FIRE FLOW DATA

BUILDING HEIGHT (IN FEET)	28'-0"
OCCUPANCY CLASSIFICATION	GROUP R
CONSTRUCTION CLASSIFICATION	N/A
TOTAL FLOOR AREA OF ALL LEVELS	2,486 SQ.FT.
FLOOR AREA OF THREE LARGEST SUCCESSIVE FLOORS	2,486 SQ.FT.
ESTIMATED FIRE FLOW	1,000

BENCHMARK

CITY OF LAS VEGAS BENCHMARK #00LV00 32NWM6 RIVET & PLATE IN TOP OF CURB @ NW CORNER OF ALTA & WEST EXIT TO SUNCOAST RESORT PARKING LOT.
METERS = 844.0507
U.S. SURVEY FEET = 2769.19
NAVD 88, DATUM

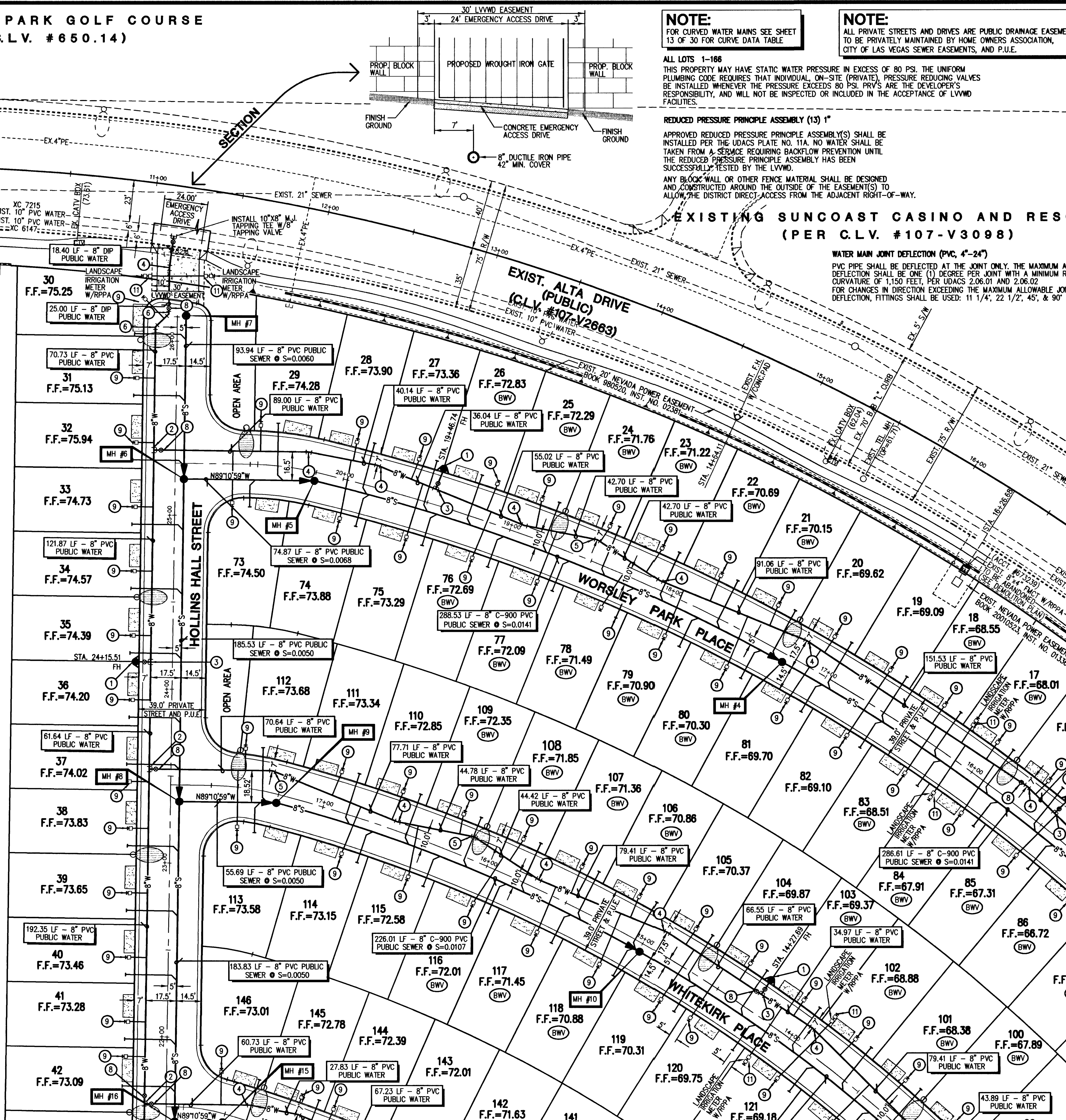
OWNER/DEVELOPER

CRESTDALE ASSOCIATES, LTD
1063 LAS PALMAS ENTRADA AVE.
HENDERSON, NEVADA 89012

NOTE:
INSTALL PIPELINE MARKER BALLS IN THE TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE NO. 27

EXISTING PARCEL 18-3 PHASE 3
OF PECOLE WEST LOT 10
(PER C.L.V. #04924)

106 EX FF=849
105 EX FF=845
104 EX FF=842
103 EX FF=838
102 EX FF=835
101 EX FF=831
100 EX FF=827



NOTE:
FOR CURVED WATER MAINS SEE SHEET 13 OF 30 FOR CURVE DATA TABLE

NOTE:
ALL PRIVATE STREETS AND DRIVES ARE PUBLIC DRAINAGE EASEMENTS TO BE PRIVATELY MAINTAINED BY HOME OWNERS ASSOCIATION, CITY OF LAS VEGAS SEWER EASEMENTS, AND P.U.E.

ALL LOTS 1-166
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. PRIVATE ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVWD FACILITIES.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (13) 1"
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 11A. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCED PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVWD.
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.

EXISTING SUNCOAST CASINO AND RESORT (PER C.L.V. #107-V3098)

WATER MAIN JOINT DEFLECTION (PVC 4"-24")
PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.06.01 AND 2.06.02 FOR CHANGES IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION, FITTINGS SHALL BE USED: 11 1/4", 22 1/2", 45", & 90"

FOR CONTINUATION SEE SHEET 11 OF 30

APPROVAL

APPROVED FOR CONSTRUCTION

CITY FIRE MARSHAL

LAS VEGAS VALLEY WATER DISTRICT

CRESTDALE ASSOCIATES, LTD
1063 LAS PALMAS ENTRADA AVE.
HENDERSON, NEVADA 89012

UTILITY PLAN (1)

WINDSOR AT QUEENSRIDGE

SHEET

02/03

DESIGNED BY:

02/03

CHECKED BY:

02/03

PROJECT NO:

086-0860

SCALE: 1"=30'

DATE

1074263

10 of 30 SHEETS

DRAWING NO.

1074263

DATE

1074263

DATE

DATE