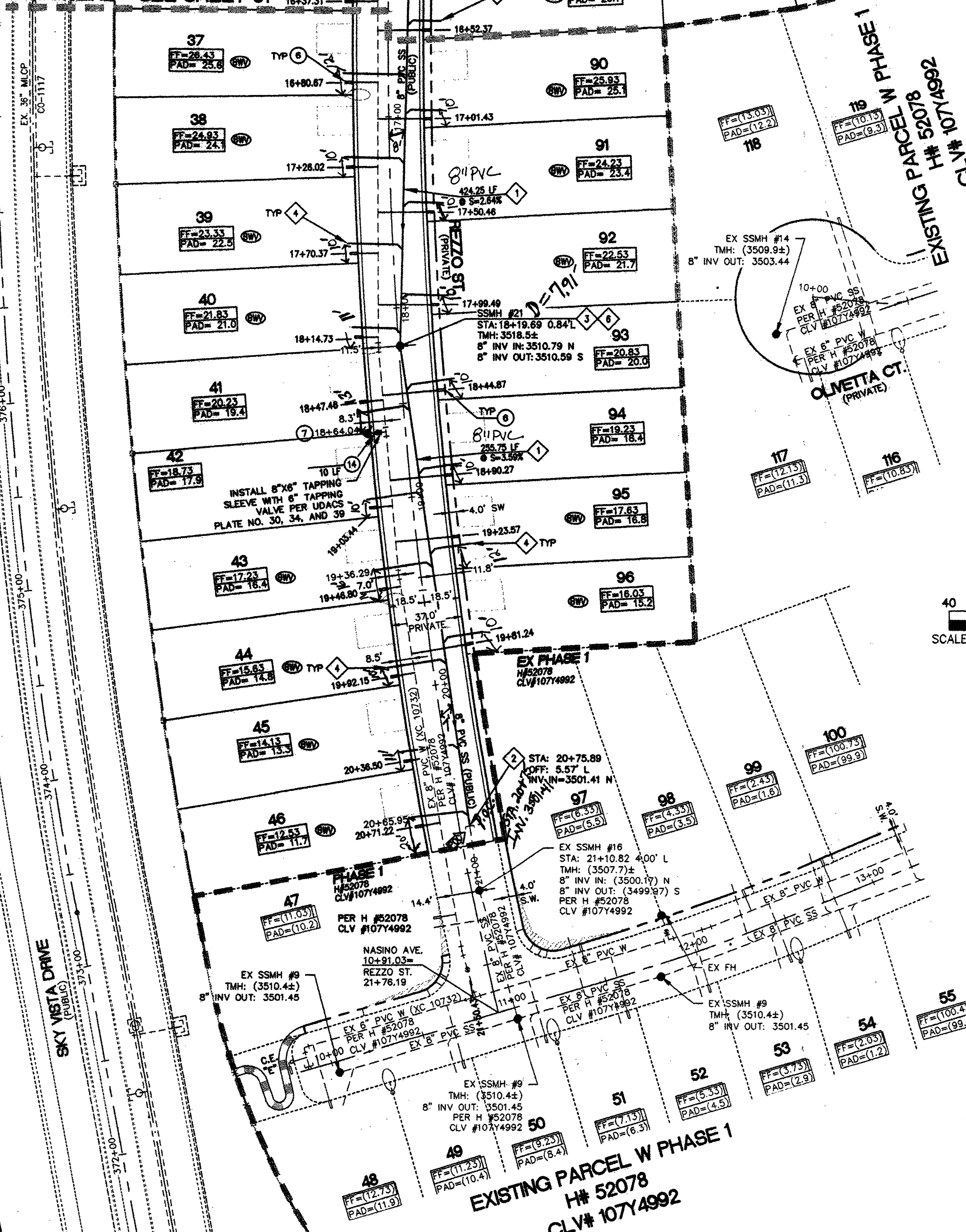


CLV- SEWER AS-BUILTS

MATCHLINE - SEE SHEET U1

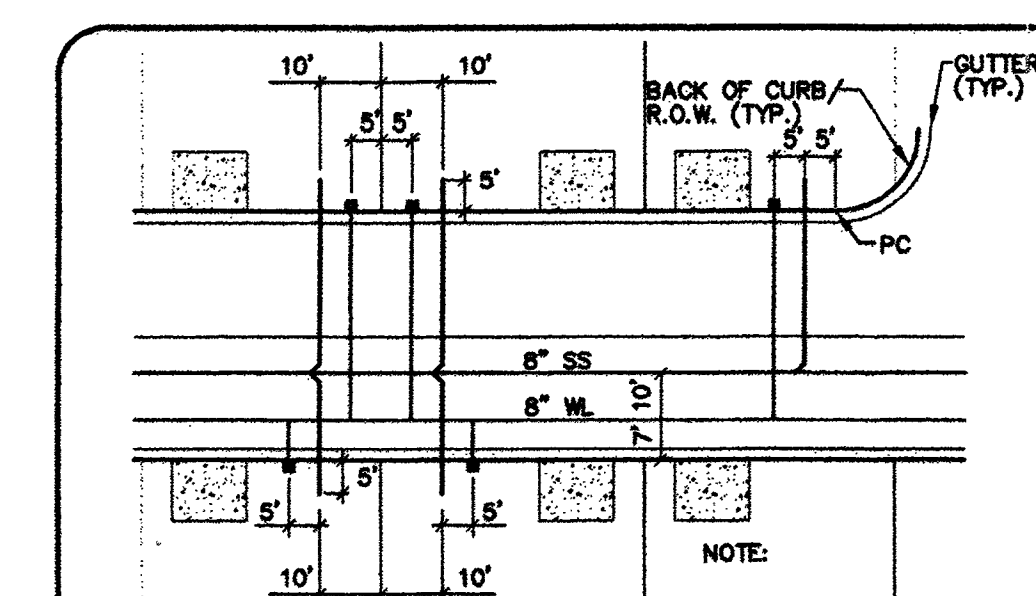
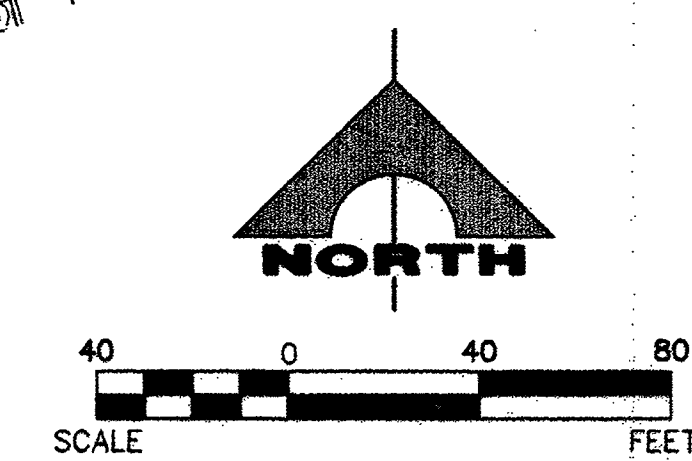
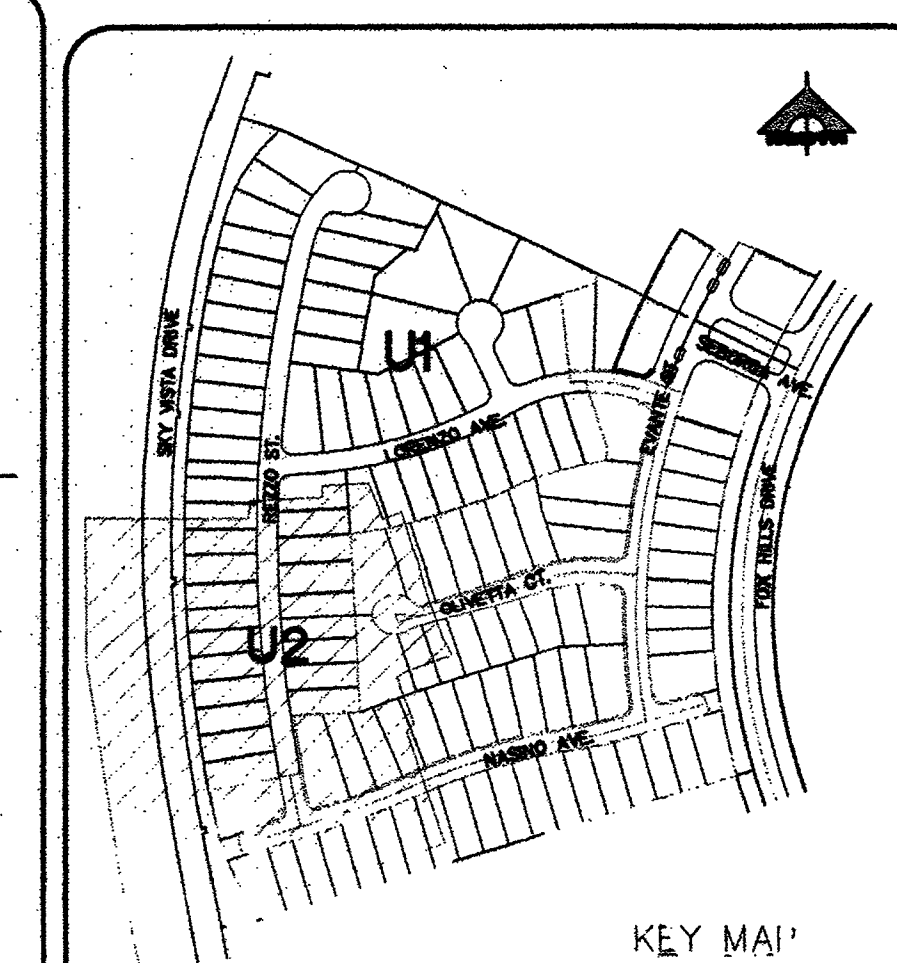
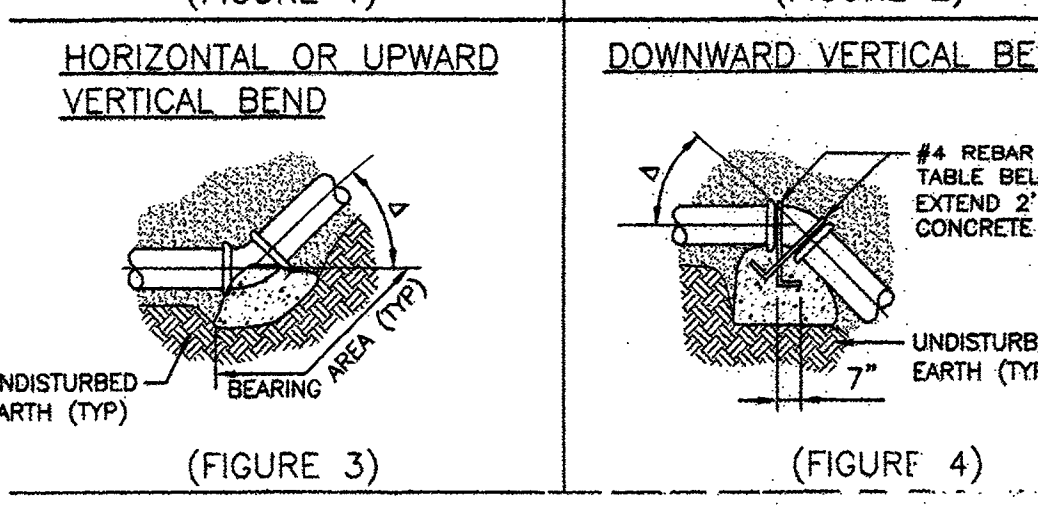
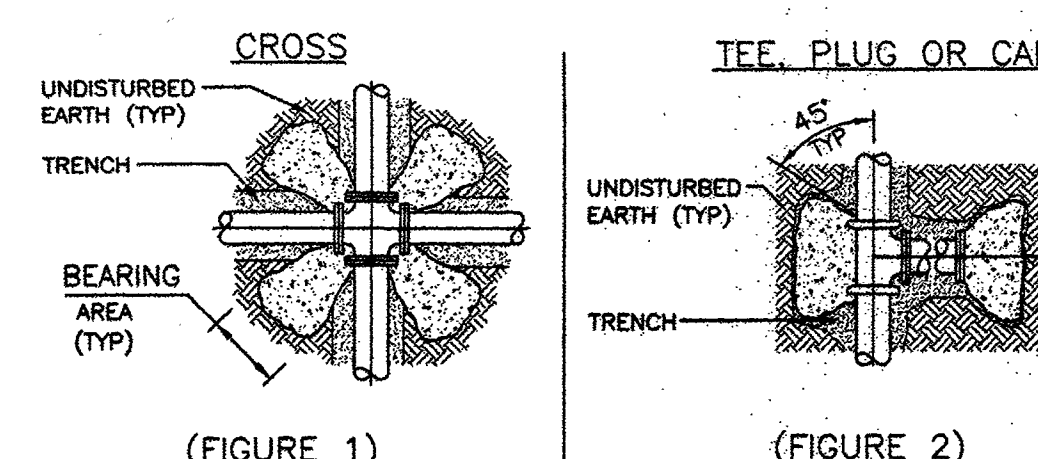


BEARING AREA IN SQ FT				CONC/CU YDS			
PIPE ID	FIGURE	FIGURE	FIGURE 3, Δ	FIGURE 4, Δ	FIGURE 4, Δ	FIGURE 4, Δ	FIGURE 4, Δ
4"	1	2	90°	45°	22.5°	11.25°	11.25°
6"	2	3	2	1	1.0	0.5	0.5
8"	3	4	2	1	1.5	1.0	0.5
10"	4	5	7	4	2	1.0	1.5
12"	5	6	11	8	3	2	4.0
					6.0	3.0	1.5
					10.5	6.0	3.0
					13.5	7.5	3.5
					16.0	9.0	4.5
					23.5	12.5	6.5

NOTE:
COAT AND WRAP ALL METAL SURFACES IN ACCORDANCE WITH SECTION 09965 OF THE LVWD SPEC. PROTECTIVE COATINGS ALL CONCRETE SHALL BE 3000 PSI MINIMUM, 28 DAYS COMPRESSIVE STRENGTH. CONCRETE IS TO BE PLACED AGAINST UNDISTURBED EARTH. TABLE BELOW DENOTES MINIMUM BEARING AREA OR VOLUME OF THRUST BLOCK. SPECIAL DESIGN CALCULATIONS ARE TO BE SUBMITTED TO LVWD FOR APPROVAL IF ALLOWABLE SOIL BEARING CAPACITY IS LESS THAN 3000 PSF. ALL VERTICAL SURFACES NOT BEARING AGAINST UNDISTURBED EARTH SHALL BE FORMED.

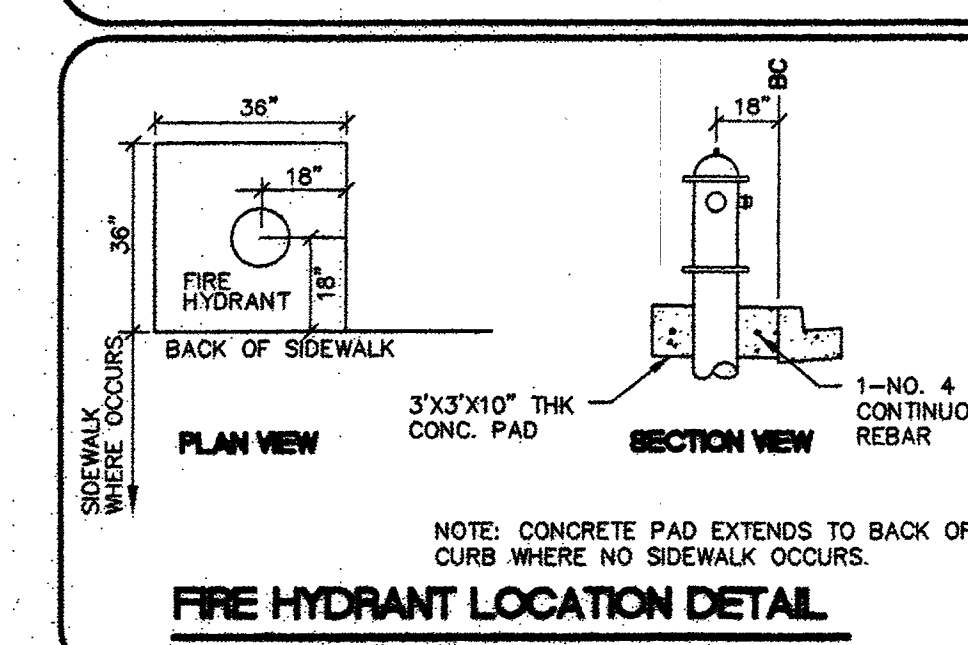
NOTE:
USE OF THRUST BLOCKS FOR PIPE DIAMETERS GREATER THAN 12" REQUIRES PRIOR DISTRICT APPROVAL AND WILL BE EVALUATED ON A CASE BY CASE BASIS.

THRUST BLOCK INSTALLATION



TYPICAL WATER AND SEWER SERVICE LOCATIONS

SERVICE LATERALS FOR LOTS: 35 THRU 45, 78, 88 THRU 96, AND 3/4" IRRIGATION METER WILL BE TAPPED ON EXISTING MAIN BY OWNERS CONTRACTOR UNDER DIRECTION OF THE LVWD.



FIRE HYDRANT LOCATION DETAIL

CONSTRUCTION NOTES

- REMOVE CAP & BLOW-OFF PER UDACS PLATE NO. 36 AND CONNECT TO EXISTING 8" MAIN.
- INSTALL 8"x6" TEE PER UDACS PLATE NO. 31.
- INSTALL 8"-5" WITH RESTRAINED JOINTS.
- INSTALL 6"-11.25" BEND PER UDACS PLATE NO. 31.
- INSTALL 6"-90° HORIZONTAL BEND PER UDACS PLATE NO. 31.
- INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 2.
- INSTALL FIRE HYDRANT, VALVES, TEE, & 6" WATER LINE PER UDACS PLATE NO. 40.
- INSTALL 8"x6" REDUCER PER UDACS PLATE NO. 30.
- INSTALL 8"-11.25" BEND PER UDACS PLATE NO. 31.
- INSTALL 6"-22.5" BEND PER UDACS PLATE NO. 31.
- INSTALL 1" WATER SERVICE WITH 3/4" IRRIGATION METER WITH 1" RPPA PER UDACS PLATES NO. 4 AND 8.
- ADJUST WATER VALVE BOX TO FINISHED GRADE PER UDACS PLATE NO. 39.
- VALVE SHALL BE ACCESSIBLE AT ALL TIMES.
- INSTALL 8" PVC WATER PIPE.
- INSTALL 6" PVC WATER PIPE.
- INSTALL 1" WATER SERVICE WITH 3/4" WATER METER PER UDACS PLATE NO. 4 - LOTS 5, 6, 7, AND 8.
- INSTALL 6" CAP & 2" BLOW-OFF PER UDACS PLATE NO. 36.
- ADJUST TO GRADE.
- CONSTRUCT VEHICULAR PROTECTION BOLLARD PER UDACS PLATE NO. 75.

NOTE: SEE SHEET C1 & C2 FOR ABBREVIATIONS AND QUANTITIES

CONSTRUCTION NOTES

- INSTALL 8" PVC SANITARY SEWER PIPE.
- REMOVE CAP AND CONNECT TO EXISTING 8" SEWER STUB. CONTRACTOR TO VERIFY LOCATION AND ELEVATION.
- INSTALL 48" DIAMETER SANITARY SEWER MANHOLE PER DCSWCS SD-1A.
- INSTALL SEWER LATERAL PER DCSWCS SD-22 (TYP).
- INSTALL 4" CPVC SEWER LATERAL WITH 6" MINIMUM VERTICAL SEPARATION FROM WATER MAIN PER DCSWCS SD-22 AND 3.17.2 (LOT 78).
- INSTALL SANITARY SEWER MANHOLE WITH WATER TIGHT JOINTS USING LVWD APPROVED ELASTOMERIC JOINT SEALANT.

NOTE: SEE SHEET C1 & C2 FOR ABBREVIATIONS AND QUANTITIES

REDUCED PRESSURE PRINCIPLE ASSEMBLY, (3)-1"

APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE NO. 8. 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.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 122972 DATE: 11/13/14
LVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL

ESTIMATE WASTEWATER DEMAND

63 UNITS X 250 GPD/UNIT = 15,750 GPD
TOTAL AVERAGE CONTRIBUTION = 15,750 GPD = 0.0158 MGD
TOTAL PEAK FLOW = 0.0158 MGD X 3.3 (PEAK FACTOR) = 0.0521 MGD

BENCHMARK

BM #	DESCRIPTION	NAVD 88 DATUM	NAVD 88 DATUM
34NE6	RIVET AND PLATE IN TOP OF CURB @ NORTHEAST CORNER OF DESERT FOOTHILLS AND ALTA DRIVE	3304.45 (FEET)	1007.197 (METERS)

BASIS OF BEARINGS

NORTH 89°45'06" EAST BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 35, TOWNSHIP 20 SOUTH, RANGE 59 EAST, W.D.M., AS SHOWN BY MAP ON FILE IN FILE 91, PAGE 28 OF PARCEL MAPS IN THE CLARK COUNTY RECORDER'S OFFICE, CLARK COUNTY, NEVADA

APPROVED FOR CONSTRUCTION

LAS VEGAS FIRE AND RESCUE
DATE: 11/18/14

GENERAL NOTES

- REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS AND/OR PAVEMENT MARKINGS), UNDER CLARK COUNTY'S JURISDICTION THAT ARE DESTROYED, DAMAGED, MOVED OR MODIFIED BY TRADING ACTIVITIES TO CLARK COUNTY'S SATISFACTION. ALL MATERIAL USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS OR WILL BE AN APPROVED EQUIVALENT.
- IN THE EVENT THAT THE TRAFFIC SIGNAL CONDUITS, LOOP DETECTORS OR ASSOCIATED EQUIPMENT ARE DAMAGED BY CONTRACTOR, THE CONTRACTOR WILL HIRE AN MSA LEVEL II ELECTRICAL CONTRACTOR TO MAKE REPAIRS PER UNIFORM SPECIFICATION NO. 623.01.02.
- ALL SEWER / STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 222 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
- THE CONTRACTOR IS TO VERIFY THE ACTUAL FIELD CONDITIONS OF ALL LOTS AND INSTALL SEWER CHECK VALVES WHERE REQUIRED PER THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
- FITTINGS SHALL NOT FALL UNDER CURBS, GUTTERS OR SIDEWALK.

ALL NEW MANHOLES TO HAVE PRE-CAST BASES

INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING PER UDACS PLATE NO. 15.

NOTE TO CONTRACTOR

EXISTING UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND 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.

CONTRACTOR NOTE:

G.C. WALLACE, INC. ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN OR NOT SHOWN. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM RECORD INFORMATION AND ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND DEPTH OF ALL RELEVANT UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF A CONFLICT OR DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING IMMEDIATELY.

WATER MAIN JOINT DEFLECTION (FIG. 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 2.07.01 AND 2.07.02.

EASEMENTS WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALL, OR FENCES

TREES, SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.

PROJECT NO. 764-A09-005
DESIGN: ALB
CHECK: ALB
DATE: 11-08-14
PLOT DATE: 11-08-14
PLOT TIME: 15:24:28

G.C. WALLACE COMPANIES
ENGINEERS | PLANNERS | SURVEYORS
1702 BAYVIEW BLVD LAS VEGAS, NV 89104
702.894.2000 F 702.894.2099 G@WALLACE.COM

PULTE HOMES
SUMMIT VILLAGE 23B PARCEL W PHASE 2
UTILITY PLAN II

DRAWING U2
16 OF 18 SHTS

Call before you Dig
UnderGround
1-702-455-6000
1-702-229-6611

Call before you Dig
UnderGround
1-800-227-2600
1-702-455-6000

Call before you Dig
UnderGround
1-702-227-2929