










SANITARY SEWER SERVICES			
LOT ID	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (W/RISER)
23	31+19.34, 0.02'LT	23.53'	5412.28 (7')
24	31+64.74, 0.14'RT	23.37'	5412.05 (7')
25	32+10.14, 0.58'RT	22.92'	5411.52 (7')

NOTE: WATER METER LOCATIONS ARE DESIGNATED BY STATIONING AT PROPERTY CORNERS.

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. CONTRACTOR SHALL COORDINATE RELOCATION OF UTILITY LINES WITH UTILITY COMPANIES AS REQUIRED.
2. ALL CURVE DATA AND DIMENSIONS ARE CALCULATED FROM CENTERLINE OF PIPE OR MANHOLE. ALL SALS & SD SLOPES ARE CALCULATED TO TRUE PIPE DIMENSIONS FROM INVERT TO INVERT. (PAY ITEMS ARE SHOWN IN PARENTHESES)
3. GRADE ELEVATIONS, WHERE NOTED, ARE FOR FLOWLINE OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
4. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND E.M.S. AT THE END OF EACH SANITARY SEWER SERVICE.
5. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL DAMAGED EXISTING UTILITY CONDUITS AND EXISTING LINES.
6. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
7. CONTRACTOR SHALL PROVIDE THE INSPECTORS WITH THE PROPOSED TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
8. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, LANDSCAPING, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
9. MH RIMS & CATCH BASIN INLET ELEVATIONS, FIRE HYDRANT & FLANGE ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT OR SURFACE GRADATIONS.
10. SALS, STORM DRAIN AND WATERLINE STATIONING FOLLOWS CL OF ROAD, UNLESS OTHERWISE NOTED.
11. STATIONING OF DROP INLET IS TO MIDDLE OF DOWN HILL GRATE AT FACE OF CURB.
12. FLOWLINE ELEVATIONS FOR DROP INLETS ARE TAKEN FROM FLOWLINE OF STANDARD CURB TO MIDDLE OF DOWNHILL GRATE.
13. RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY REVIEW.
14. ALL WATERLINE FITTINGS, VALVES, BENDS, TEES, CROSSES AND APPURTENANCES SHALL USE RESTRAINED JOINTS UNLESS OTHERWISE NOTED ON THE PLANS.
15. AT UTILITY CROSSINGS WHERE LESS THAN 18" OF SEPARATION FROM STORM DRAIN PIPE OR MANHOLE IS PRESENT LEAN FILL IS TO BE USED 1) FOR A DISTANCE OF 5 FEET ON EACH SIDE OF THE SD & FROM TOP OF STORM DRAIN TO BOTTOM OF SANITARY SEWER OR WATER LINE OR 2) FOR 10 FEET ALONG SANITARY SEWER OR WATER LINE CENTERED ON THE MANHOLE WITH DEPTH EQUAL TO 2X SEWER OR WATER LINE DIAMETER.
16. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
17. STORM DRAIN GRATES PER MODIFIED CSA STD DWG 2220 PER DETAIL SHEET 18.

	DOUBLE WATER METER
	SINGLE WATER METER
	WATER LINE SHUTOFF VALVE
	SAS LATERAL
	SAS MANHOLE
	STORM DRAIN MANHOLE
	STORM DRAIN INLET
	PROPOSED FIRE HYDRANT
	EXISTING WATER VALVE

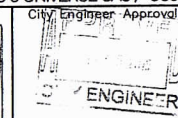
★ PROPOSED STREET LIGHT
"AS-BUILT" LOCATION OF MANHOLES & VALVES

NOTE: TO BE COMPLETED BY CONTRACTOR PRIOR TO ACCEPTANCE

Bohannon  Huston
www.bhinc.com 800.877.5332



TIERRA VISTA UNIT 3 AT THE TRAILS
UTILITY PLAN AND PROFILE
CS 3 UNIVERSE SAS / CS3 TEMPE AVENUE



ast Design Update

Mo./Day/Yr.	Mo./Day/Yr.

City Project No	
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Zone Map No.

Sheet	Of
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C-09-Z

16 18

SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)