



# CUT SHEET INSTRUCTIONS

## ENGINEERING INFORMATION

## PROJECT INFORMATION

## USD INFORMATION

Engineering Co: <u>ANY COMPANY</u>	Project Name: <u>TRACT 4300</u>	Checked By: _____
Prepared By: <u>SMITH</u> Phone: <u>(xxx) xxx-xxxx</u>	Street/Line: <u>BRUCE TERRACE</u>	Date: _____
Date: <u>xx/xx/xxxx</u> Sheet <u>1</u> of <u>1</u>	Hub Offset: <u>5</u> ft. Upstream: _____	File: _____ Inspector: _____ Contractor: _____

Station	Main Sewers								Building Sewers						Remarks
	Structure/ Wye	Hub Elev	Invert Elev	Slope	Size	Cut (+) / Fill(-)	Rim Elev	M.H. Cone & Barrel	Hub Elev @ P/L	Dist along PL to Downstrm PL Crnr	Finish Ground Elev @ PL	Invert Elev @ PL	Cut @ PL		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1+00	COTG	111.00	105.00	0.01	8	6.00	110.00	*	110.50	5.00	110.00	104.00	6.50		

### MAIN SANITARY SEWERS

**This section of the cut sheet is for sewers in the streets in tracts and for individual building sewers, when required to be staked on the plans.**

1. STATION	Stationing along the main or individual building sewer, as indicated on plans. At a minimum, the station must be shown at all structures (manholes, clean-outs, wyes, and risers) and at 50 ft. maximum intervals. For horizontal curves, and on sewers with a slope flatter than 0.003 ft. per foot, the maximum spacing will be 25 ft. The maximum spacing of construction stakes on vertical curves shall be 10 ft.
2. STRUCTURE/WYE	Indicate the type of structure: Manhole by "M.H.", riser by "RISER", clean out to grade by "COTG" or wye by "WYE", (For wyes, indicate the size and its direction, right (R) or left (L), looking upstream along the main sewer. (Example: 4" WYE R)
3. HUB ELEVATION	Existing ground elevation at grade stake for main sewer installation. Show offset and right or left, looking upstream, on upper portion of cut sheet form. (Mark stake in field with station and offset.) <b>Do not mark cut on stakes.</b>
4. INVERT ELEVATION	Compute invert elevation of main or individual sewer at all stations, based on the slope shown on the plans. Where more than one invert elevation occurs (at a manhole) show each, with direction.
5. SLOPE	Indicate the computed slope of the main sewer and limits (stationing) of slope.
6. SIZE	Indicate the diameter of the designed main or individual building sewer pipe, and limits at that station.
7. CUT (+) / FILL (-)	Difference in elevation between the hub elevation and the invert elevation.
8. RIM ELEVATION	Indicate final designed manhole rim elevation to the nearest tenth (0.10') of a foot, in all areas.
*9. M/H CONE AND BARREL	To be computed by Union Sanitary District, based on (8) above. USD calculates this for contractors as a courtesy only (Please leave blank.)

### **BUILDING SEWERS**

**This area of the cut sheet is for laterals to property line in tracts or short laterals off of a building sewer main line.**

10. HUB ELEVATION AT PROPERTY LINE	Grade stake elevations at the property line of the proposed building sewer. The grade stake is to be set at standard five-foot offset right, looking upstream. (Mark with same station as main sewer station wye and with offset of five feet.)
11. DISTANCE P/L TO DOWN-STREAM PROPERTY CORNER	Indicate distance to the nearest foot, <u>measured along the property line</u> , from where the proposed building sewer crosses the property line to the nearest down-stream property corner or nearest down-stream property return, in the case of corner lots.
12. FINISHED GROUND ELEVATION AT P/L	Indicate the finished ground surface design elevation, where the building sewer crosses the property line.
13. INVERT ELEVATION AT P/L	Indicate an invert elevation of the proposed building sewer at the property line. A minimum of five and one-half feet cover below the <u>finished</u> ground elevation is recommended, unless the elevations of the building drain, plumbing, main sewer, or other utility require a deviation.
14. CUT AT PROPERTY LINE	Difference in elevation between the hub elevation at the property line and the invert elevation at the property line.
15. REMARKS	Any notations needed for special attention during construction.

### **GENERAL NOTES**

- A. Before start of any sewer construction requiring staking, three copies of cut sheets on the Standard District Form must be submitted to the District. They will be checked within 24 hours, and one approved copy will be furnished to the contractor for use in construction. Stakes must not be marked with cuts prior to District approval of cut sheets.
- B. Union Sanitary District will not accept faxed copies of cut sheets.
- C. A Civil Engineer or Land Surveyor, registered in the State of California and engaged by the Developer, will be responsible for setting stakes and preparing the cut sheets.
- D. The Civil Engineer or Land Surveyor that submits cut sheets to Union Sanitary District will include the company's name and telephone number where he or she can be reached if there are any questions about the cut sheets.