

GENERAL NOTES:

1. The Contractor will be required to provide a minimum advance notice of forty-eight (48) hours to utility companies prior to excavation or working adjacent to utilities.

Kansas One-Call 687-2470

The following numbers are provided:

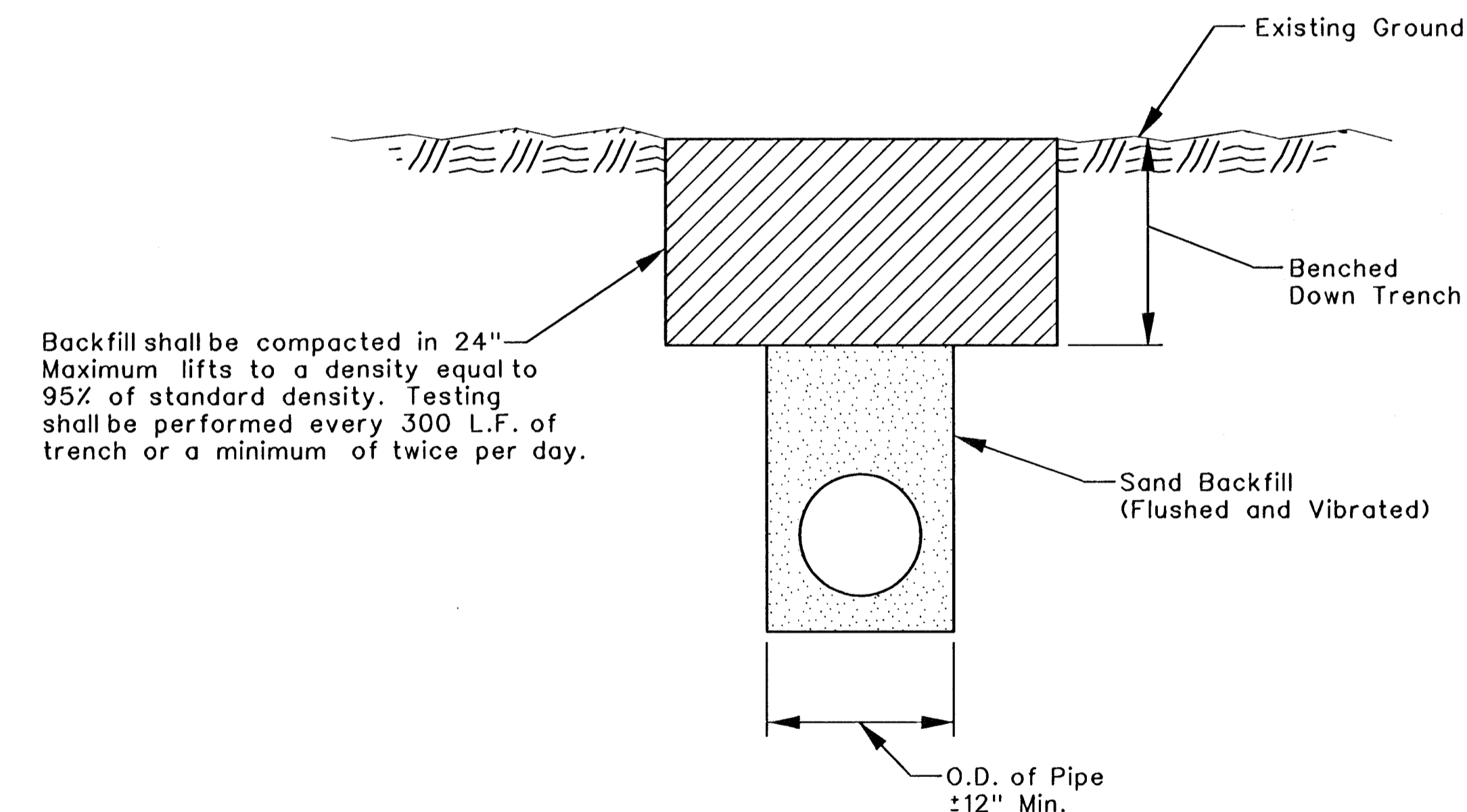
Cox Communications	262-4270
Westar Energy	261-6251
Aquila Networks	942-8811
SBC	268-2245
Kansas Gas Service	262-3121
City of Wichita Water Department	268-4940
City of Wichita Sewer Maintenance	268-4924

2. The Contractor shall notify pipeline companies at least 48 hours in advance of any work being performed over or adjacent to existing pipelines.
3. The Contractor shall give all property owners and/or tenants of developed property directly abutting the construction of this project a minimum of ten (10) days notice prior to start of construction.
4. All water mains and appurtenances shall be installed in accordance with City of Wichita, Kansas, Standard Specifications for Water Main Installations No. 14533.
5. Contractor shall not start work on the project until the Project Inspector is assigned to the project and is present on the site. Any work done without inspection will be required to be uncovered for inspection.
6. The Contractor shall be responsible for preserving property irons. The Contractor will be required to re-establish any property irons which are damaged or destroyed by their construction operations. Such irons shall be re-established by a licensed land surveyor in accordance with state laws.
7. Utility service lines, poles, gas valve boxes, meter, et cetera are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
8. The Engineer shall take field ties to all quarter section corners. The Contractor shall set a City survey monument in the required location where such quarter section corners fall within the limits of pavement construction. Survey monuments will be furnished by the City. The Engineer will accurately locate and install the iron at the quarter section corner. This work will not be paid for directly, but shall be considered subsidiary to the other pay items of work in the contract.

9. Each bidder shall visit the site of the project before submitting their proposal for the work so that they may inform themselves as to the existing field conditions and the obstacle which might be encountered.
10. Interurban traffic generated outside the project area and local business or residential traffic generated within the project area is to be carried through construction as further promulgated by project special provisions. The Contractor shall utilize barricades, signs, guards, and flagmen in accordance with the Manual on Uniform Traffic Control Devices.
11. Rubble from the removal of miscellaneous structures including pavement, pipes, and etc. shall be disposed of on sites provided by the Contractor. These sites shall also be approved of by the Engineer as to suitability, appearance, and site location. Location that, in the opinion of the Engineer, leave an unsightly appearance will not be approved. All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain will require a Kansas State Board of Agriculture permit. Any material dumped in water of the United States or wetlands is subject to U.S. Corps of Engineers permitted regulations. Any material buried or stockpiled beyond approved construction limits may require archaeological investigations unless buried in a previously approved disposal location.
12. Temporary Blow-off Valves necessary to flush lines at existing water line tie-ins shall not be paid for directly, but shall be considered INCIDENTAL to other items in the bid.
13. Side road drainage to be maintained throughout construction. All existing culverts to be protected and maintained.
14. Contractor to coordinate with the United States Postal Service prior to any temporary or permanent relocation of existing mailboxes.
15. Contractor to follow all current City of Wichita erosion control standards.
16. Contractor to maintain access to all driveways at the end of each construction day, unless, prior approval from the Project Inspector.
17. All manholes shall have City approved epoxy based spray on lining system.
18. Contractor shall note that the 24" & 16" Water Line and 21" Sanitary Sewer Main projects are tied together. The Water Line project can not be constructed until the Sanitary Sewer Main is installed and backfilled to the base of the Water Line trench and the backfill for the Sanitary Sewer Main has been approved by the Engineer.
19. **Trench Stabilization.** Trench stabilization, consisting of over-excavation and placement of Type I pipe-bedding material, shall occur wherever groundwater is encountered. Trench stabilization shall extend from 6" below the barrel of the pipe to a top elevation equivalent to that of the groundwater. Type I bedding material shall be crushed rock conforming to ASTM C-33, Graduation No. 67, and shall meet all requirements for Portland Cement Concrete Pavement Course Aggregate, section 406.2, City of Wichita Standard Specification.
20. **Pipe Backfill.** Initial pipe backfill shall consist of sand, flushed and vibrated, extending from under the barrel of the pipe (or top of Type I bedding, if in groundwater) to the limits of the benched down trench. In the widened area of the benched down trench, excavated material may be used for backfill. Backfill for the Sanitary Sewer Main shall be compacted in lifts (2 ft. Maximum) to a density equal to 95% of standard density. The Contractor shall perform compaction testing, as described in the latest addition of ASTM D698, on each lift for every 300 lineal feet of trench, or a minimum twice per day, to verify satisfaction of the requirements above. All testing costs shall be included in the unit price bid for pipe in place. Compaction from the base of the Water Line trench to the ground surface may be accomplished per the City of Wichita Standard Specifications.

Project Control and Coordinate Data							
Point No.	Baseline	Baseline Sta.	Offset	Side	Description	Northing	Easting
101	135th Street	9+00.00	0.00	-	Begin 135th Street Baseline	14,629.63	12,055.80
102	135th Street	10+00.00	0.00	-	Section Corner (21st St. North & 135th St. West)	14,729.63	12,056.74
103	135th Street	31+00.00	0.00	-	End 135th Street Baseline	16,829.53	12,076.48
201	Line I	0+00.00	0.00	-	Type P Manhole	14,641.51	12,322.08
202	Line I	1+72.78	0.00	-	Type P Manhole	14,640.65	12,149.31
203	Line I	4+20.59	0.00	-	Type P Manhole - Outside Drop	14,814.32	11,972.53
204	Line I	5+85.86	0.00	-	Type P Manhole	14,979.58	11,974.08
205	Line I	6+86.95	0.00	-	Type P Manhole	15,079.41	11,990.02
206	Line I	10+86.95	0.00	-	Type P Manhole	15,479.39	11,993.78
207	Line I	14+86.95	0.00	-	Type P Manhole	15,879.38	11,997.54
208	Line I	16+37.14	0.00	-	Type P Manhole - Outside Drop	16,029.56	11,998.96
301	135th Street	10+73.73	100.00'	Left	Right-of-Way Corner	14,804.29	11,957.44
302	135th Street	10+99.01	75.00'	Left	Right-of-Way Corner	14,829.34	11,982.67
303	135th Street	12+49.01	75.00'	Left	Right-of-Way Corner	14,979.33	11,984.08
304	135th Street	13+49.14	60.00'	Left	Right-of-Way Corner	15,079.41	11,990.02
305	135th Street	15+69.21	60.00'	Left	Right-of-Way Corner	15,299.37	12,002.09
306	135th Street	23+14.58	60.00'	Left	Right-of-Way Corner	16,044.71	12,099.10

Summary of Quantities		
Bid Items	Quantity	UM
21" Sanitary Sewer Line	1,647.1	L.F.
Steel Casing	88	L.F.
Type P Manhole	6	EA
Type P Manhole - Outside Drop	2	EA
Site Clearing and Restoration	1	L.S.
Soil Erosion BMP	1	L.S.



SANITARY SEWER PIPE SETTLEMENT & COMPACTION DETAIL

CITY OF WICHITA	
PROPOSED IMPROVEMENTS	
135th St. WEST 21st to 29th STREET SEWERLINE GENERAL NOTES	
WICHITA	KANSAS
DESIGNED BY J.R.L.	DRAWN BY D.A.N.
CHECKED BY B.A.L.	DATE 05/17/2005
SCALE 1"=20'	SHEET NO. 2