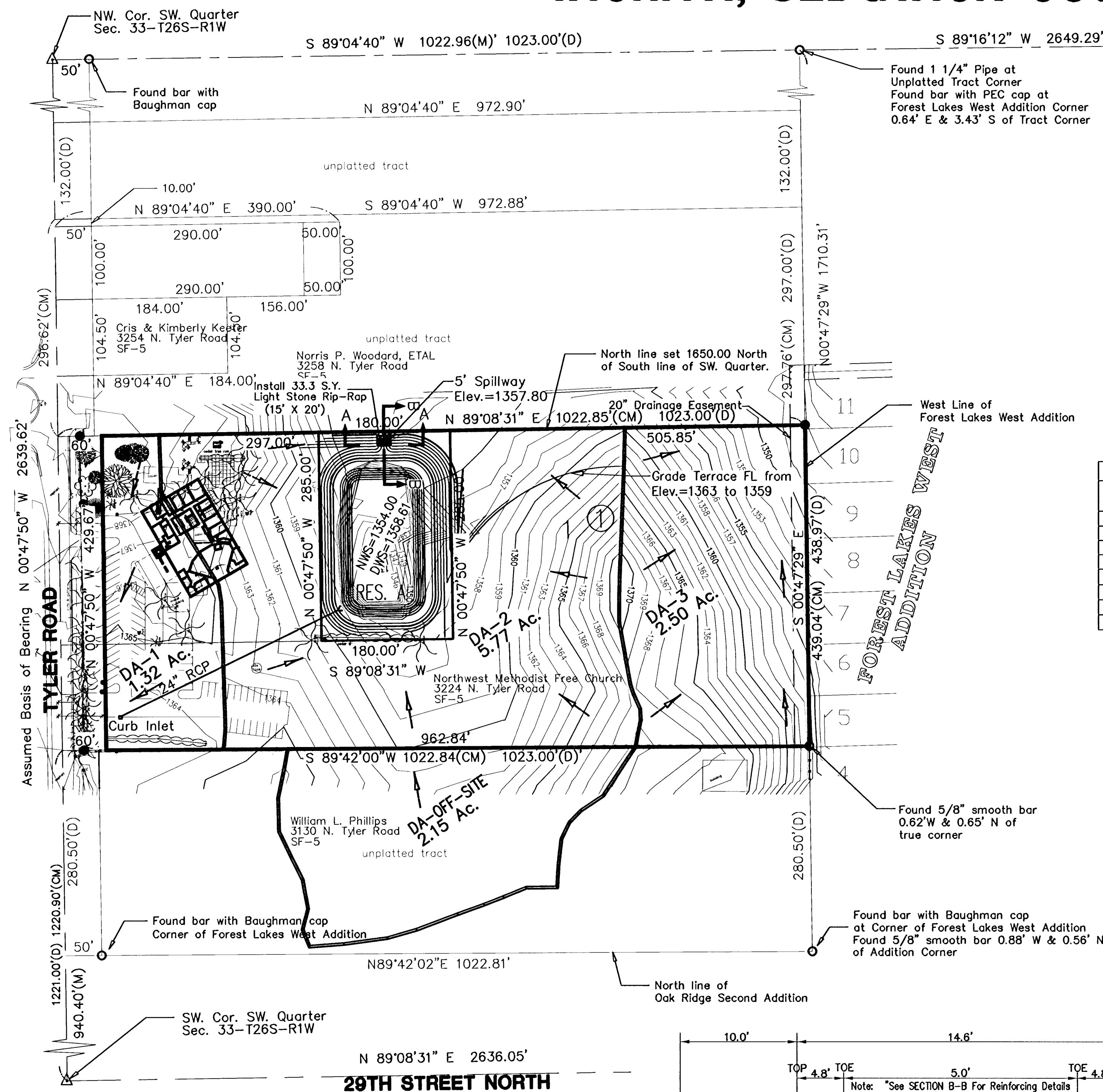


DRAINAGE PLAN FOR NORTHWEST METHODIST ADDITION WICHITA, SEDGWICK COUNTY, KANSAS



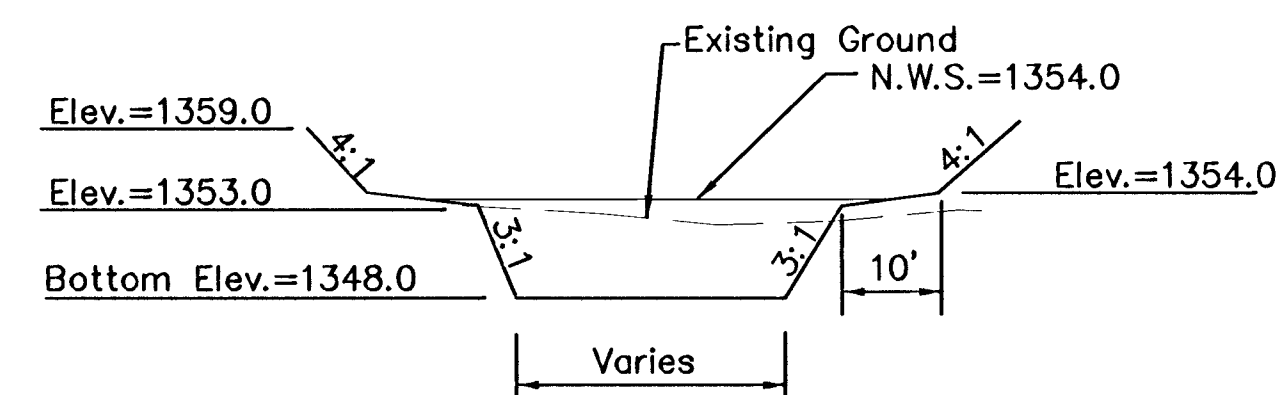
				Undeveloped			Developed		
Area #	Area	I_5	I_{100}	Q_5	Q_{100}	CN	CN	Q_5	Q_{100}
1	1.32	4.62	7.40	2.02	5.58	72.0	91.1	3.12	6.46
2	5.77	4.62	7.40	8.80	24.35	72.0	73.4	13.60	28.20
3	2.50	4.62	7.40	3.81	10.55	72.0	72.0	*	*
Offsite	2.15	4.62	7.40	3.28	9.06	72.0	72.0	*	*

* Undeveloped

Elevation	Acres	Storage Acres-Ft.	Total Storage Acres-Ft.	Q ₅ ^	Q ₁₀₀
1358.61	1.09	0.65	3.80		12.69
1358.00	1.05	0.19	3.14		1.92
1357.80	0.90	0.70	2.95	0.58	0.58
1357.00	0.85	0.06	2.25	0.51	0.51
1356.93	0.84	0.75	2.19	0.51	0.51
1356.00	0.78	0.75	1.44	0.40	0.40
1355.00	0.72	0.69	0.69	0.25	0.25
1354.00	0.66	0.00	0.00	0.00	0.00

^ Drawdown through 4" pipe takes just under 74 hours. The existing flow does not account for 1.88 cfs of runoff north of the existing pond during 5-yr. event. Approx. 1.23 Acres drains directly to the north property instead of entering the existing pond.

EXISTING POND STAGE/STORAGE TABLE					
Elevation	Acres	Storage	Total Storage	Existing	
		Acres-Ft.	Acres-Ft.	Q ₅	Q ₁₀₀
1354.36	0.62	0.21	2.95		25.4
1354.00	0.52	0.50	2.74		0.0
1353.00	0.48	0.46	2.25		0.0
1352.00	0.44	0.32	1.79		0.0
1351.25	0.41	0.10	1.46	0.00	0.0
1351.00	0.40	0.38	1.37	0.00	0.0
1350.00	0.36	0.34	0.98	0.00	0.0
1349.00	0.33	0.27	0.64	0.00	0.0
1348.00	0.21	0.18	0.37	0.00	0.0
1347.00	0.15	0.13	0.19	0.00	0.0
1346.00	0.10	0.06	0.06	0.00	0.0
1345.00	0.02	0.00	0.00	0.00	0.0



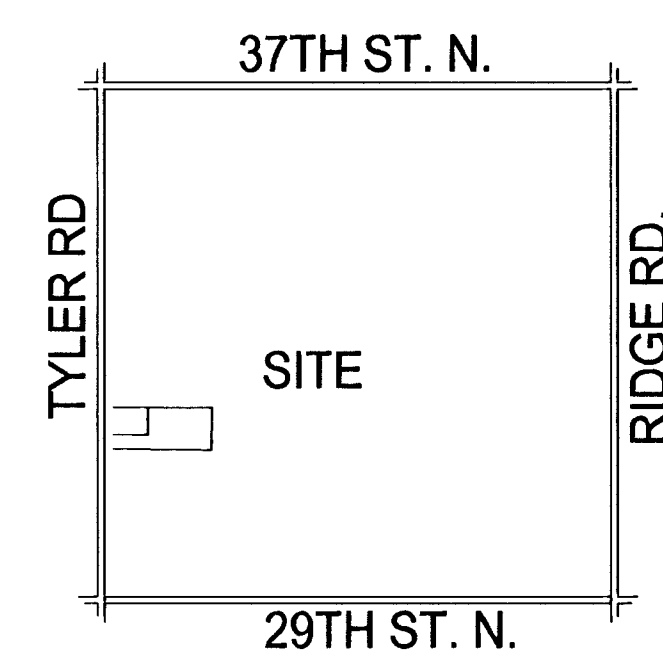
TYPICAL POND GRADING

LEGAL DESCRIPTION

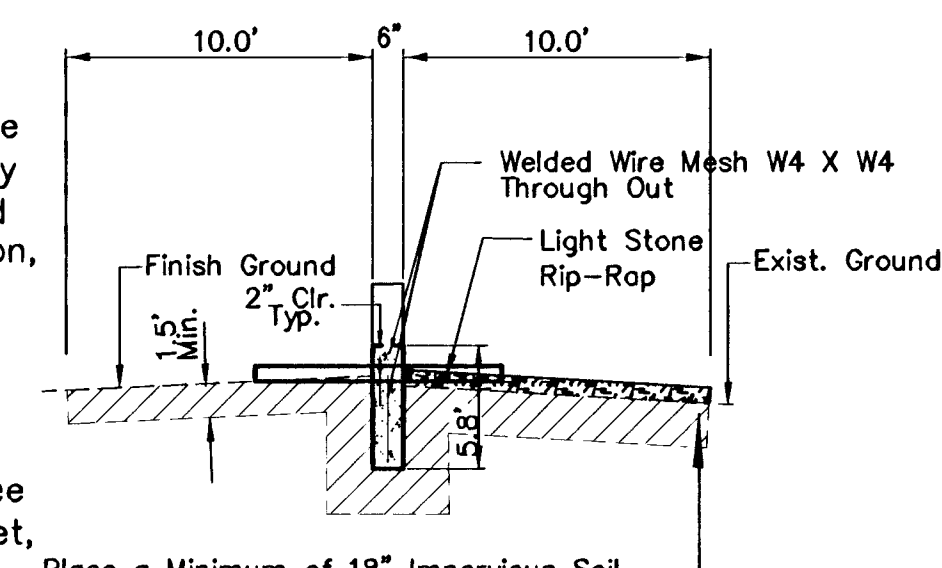
A tract of land in the Southwest Quarter of Section 33, T26S, R1W of the 6th P.M., Sedgewick County, Kansas, being more particularly described as: Going Northerly on the West line of Section 33, T26S, R1W, a distance of 1221.00 feet North from the Southwest corner of said section for a point of beginning, thence turning right deflecting 90°29' 21" and going Easterly a distance of 1023.00 feet, thence turning left deflecting 90°29'21" and going Northerly a distance of 438.97 feet, thence turning left deflecting 90°04' and going Westerly on a line 1650 feet North of and parallel with the South line of the Section, a distance of 666.00 feet, thence turning left deflecting 89°56' and going Southerly a distance of 288.38 feet, thence turning right deflecting 90°29'21" and going Westerly a distance of 357.00 feet to the West line of the Section, thence turning right (*left*) and going South 144.10 feet to the point of beginning enclosing 7.84 acres more or less.

AND:

Beginning at a point on the West line of Section Thirty-three (33), Township Twenty-six (26) South, Range One (1) West, a distance of 1365.00 feet North of the Southwest Corner of said Section Thirty-three (33), thence going Northerly on the same line a distance of 284.90 feet, thence turning right deflecting 89°56' and going Easterly on a line 1650.10 feet North of and parallel with the South line of said Section Thirty-three (33), a distance of 357.00 feet, thence turning right deflecting 90°04' and going Southerly a distance of 288.38 feet, thence turning right deflecting 29°29'20" and thence going Westerly a distance of 357.00 feet to the point of beginning, enclosing an area of 2.35 acres, more or less.



LOCATION MAP
No Scale



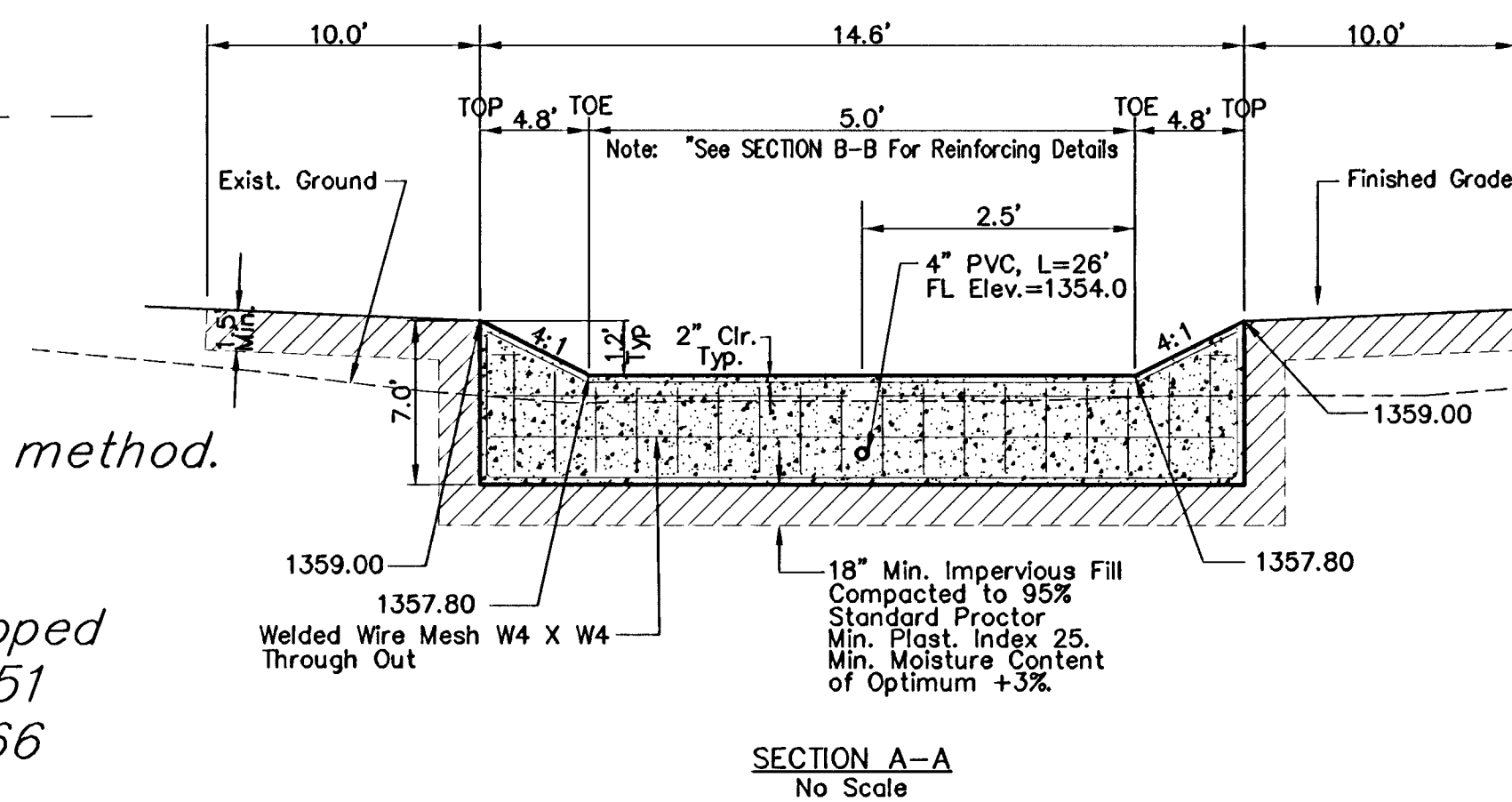
SECTION B-B
No Scale

NOTES:

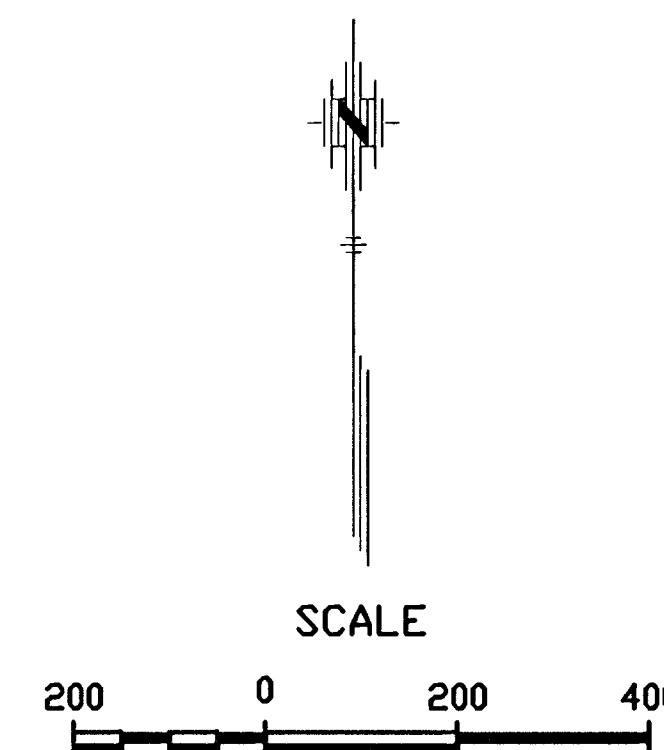
1. Determination of Q 's was made using the rational method.

2. *c's used were as follows:*

	<i>Undeveloped</i>	<i>Developed</i>
<i>5yr frequency</i>	<i>0.33</i>	<i>0.51</i>
<i>100 yr frequency</i>	<i>0.57</i>	<i>0.66</i>



SECTION A-A
No Scale



LEGEND

- | | |
|--------|--------------------------|
| ● | = 1/2" Iron Pipe (found) |
| ✖ | = 1/2" Rebar (found) |
| ● | = PK Nail (found) |
| + | = "+" Cut (found) |
| ▲ | = Section Corner |
| (M) | = Measured |
| (P) | = Platted |
| R.O.W. | = Right-of-Way |

**NORTHWEST METHODIST ADDITION
STORM SEWER IMPROVEMENTS
DRAINAGE PLAN**

CITY OF WICHITA, KANSAS

JIM ARMOUR P.E. - CITY ENGINEER
1725 PPS (607861)

POE & ASSOCIATES, INC.
 5940 E. Central, Suite 200 ■ Wichita, KS 67208-4242
 Phone 316/685-4114 ■ FAX 316/685-4444



LANE

Designed By:	T. Austin
Drawn By:	S. Schmidt
Poe Job No.:	874\Storm-drainage.dwg
Date:	01/10/2007

Date: 01/10/2007

Sheet
9 of 10