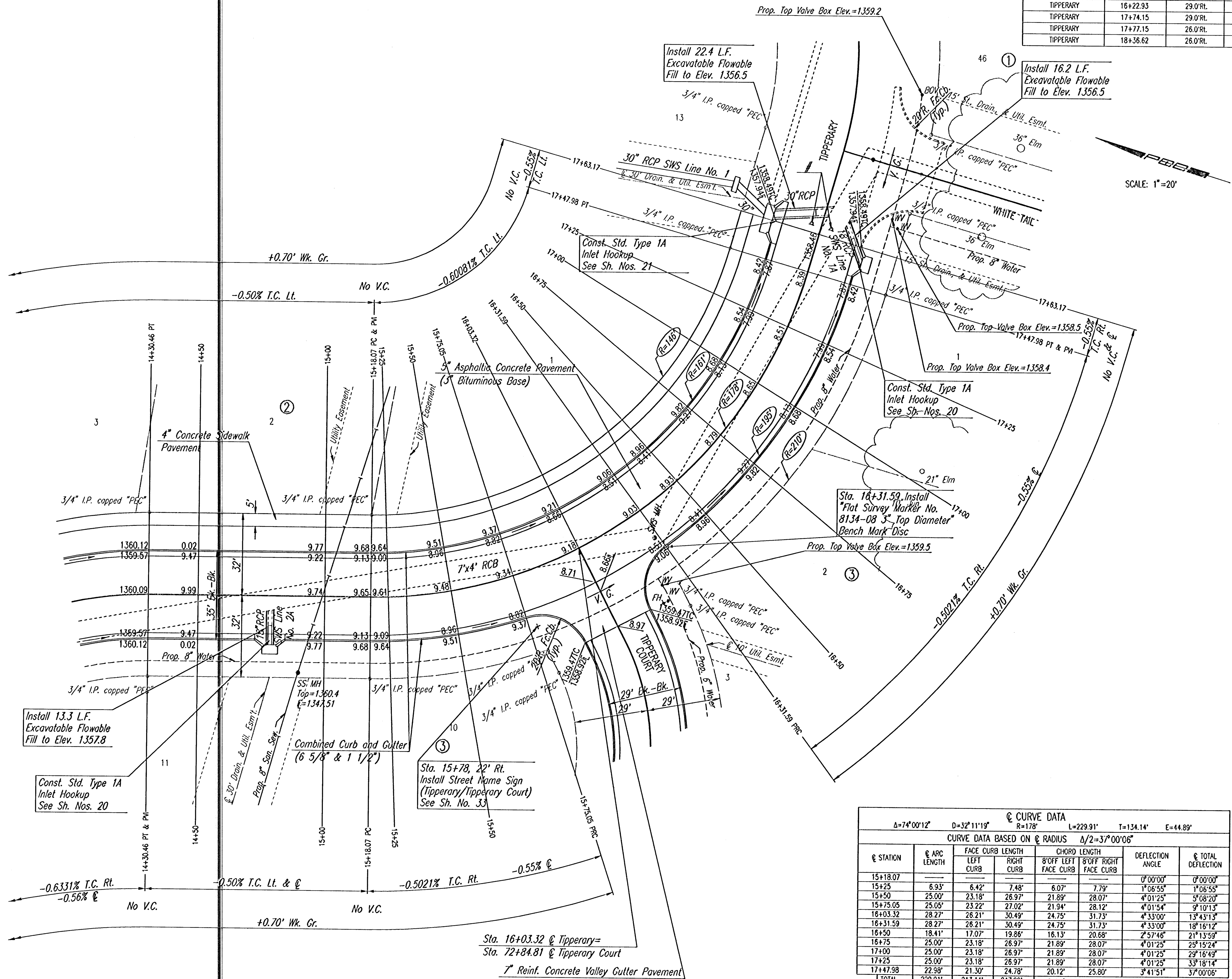


PROJECT NO.	SHEET NO.	TOTAL SHEETS
472-83468	7	55

WATER VALVE BOX ELEVATIONS			
STREET	STATION	OFFSET	PROPOSED ELEVATION
TIPPERARY	16+22.93	29.0' RL	1359.5
TIPPERARY	17+74.15	29.0' RL	1358.5
TIPPERARY	17+77.15	26.0' RL	1358.4
TIPPERARY	18+36.62	26.0' RL	1359.2



CURVE DATA						
$\Delta=74^{\circ}00'12''$ $D=32^{\circ}11'19''$ $R=178'$ $L=229.91'$ $T=134.14'$ $E=44.89'$						
CURVE DATA BASED ON $\Delta/2=37^{\circ}00'06''$						
STATION	ARC LENGTH	FACE CURB LENGTH		CHORD LENGTH		DEFLECTION ANGLE
		LEFT CURB	RIGHT CURB	8' OFF LEFT FACE CURB	8' OFF RIGHT FACE CURB	
15+18.07	—	—	—	—	—	0°00'00"
15+25	6.93'	6.42'	7.48'	6.07'	7.79'	1°06'55"
15+50	25.00'	23.18'	26.97'	21.89'	28.07'	4°01'25"
15+75	25.00'	23.22'	27.02'	21.94'	28.12'	4°01'54"
16+03.32	28.27'	26.21'	30.49'	24.75'	31.73'	4°33'00"
16+31.59	28.27'	26.21'	30.49'	24.75'	31.73'	4°33'00"
16+50	18.41'	17.07'	19.88'	16.13'	20.68'	2°57'46"
16+75	25.00'	23.18'	26.97'	21.89'	28.07'	4°01'25"
17+00	25.00'	23.18'	26.97'	21.89'	28.07'	4°01'25"
17+25	25.00'	23.18'	26.97'	21.89'	28.07'	4°01'25"
17+47.98	22.98'	21.30'	24.78'	20.12'	25.80'	3°41'51"
TOTAL	229.91'	213.14'	247.99'			37°00'06"

SEE SH. NO. 33 FOR SIGNING NOTES AND DETAILS

BALTHROP 4TH ADDITION

TIPPERARY
STA. 14+30.46 TO STA. 17+63.17



Professional Engineering Consultants, P.A.

303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by
Drawn by

BER

DEP

Checked by

DEP

Date FEB. 2002

Job No. 01545