

//SURPRO JOB RTI.A25.P04503,WANG,M=1,T=1,P=100,PRTY=2

***PROCLIB=RTI,PROCLIB

// EXEC SURPRO

XXG EXEC PGM=SURPRO,R=500K

00000010

XXSTEPLIB DD DSN=RTI.A25.P04503.JCW.LIB,LOAD,DISP=SHR

00000020

XXFT03F001 DD SYSOUT=A

00000030

XXFT01F001 DD DDNAME=SYSIN

00000040

XXFT10F001 DD DSN=&I6,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),

00000050

XX DCB=(RECFM=FB,LRECL=133,BLKSIZE=6384)

00000060

XXFT11F001 DD DSN=&I7,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),

00000070

XX DCB=(RECFM=FB,LRECL=133,BLKSIZE=6384)

00000080

XXFT12F001 DD DSN=&I8,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),

00000090

XX DCB=(RECFM=FB,LRECL=133,BLKSIZE=6384)

00000100

XXFT13F001 DD DSN=&I9,UNIT=DISK,DISP=(,DELETE),SPACE=(TRK,(20,20)),

00000110

XX DCB=(RECFM=FB,LRECL=133,BLKSIZE=6384)

00000120

//SYSIN DD *

//

IEF236I ALLOC. FOR SURPRO G

IEF237I 17F ALLOCATED TO STEPLIB

IEF237I 562 ALLOCATED TO FT03F001

IEF237I 502 ALLOCATED TO FT01F001

IEF237I 171 ALLOCATED TO FT10F001

IEF237I 150 ALLOCATED TO FT11F001

IEF237I 171 ALLOCATED TO FT12F001

IEF237I 150 ALLOCATED TO FT13F001

IEF142I - STEP WAS EXECUTED - COND CODE 0000

IEF285I RTI.A25.P04503.JCW.LIB,LOAD

KEPT

IEF285I VOL SER NOS= RTI222.

IEF285I SYS76239.T205920.RV001.SURPRO.I6

DELETED

IEF285I VOL SER NOS= SPARE8.

IEF285I SYS76239.T205920.RV001.SURPRO.I7

DELETED

IEF285I VOL SER NOS= SPARE9.

IEF285I SYS76239.T205920.RV001.SURPRO.I8

DELETED

IEF285I VOL SER NOS= SPARE8.

IEF285I SYS76239.T205920.RV001.SURPRO.I9

DELETED

IEF285I VOL SER NOS= SPARE9.

G CORE=500K TIME---0:17.7 UR--2014 RD/WR---0:00.0 RC-----0

G USED=292K CPU---0:05.9 DISK---231 REWNO---0:00.0

G I/O---0:11.8 TAPE-----0 FL SR---0:00.0

SURPRO TIME---0:17.7

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1 *****
2 HEC2 VERSION UPDATED JAN 1975
3 ERROR CORRECTIONS 01,02,03,04,05,06,07,08
4 MODIFICATIONS 52,53,54,55,56,57,58
5 *****
6
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8
9
10 T1 TRIB. 1 HORSE CREEK BASIN 4 NEUSE RIVER TRIBUTARY
11 T2 FLOODPLAIN STUDY AT WAKE COUNTY M-G JOB NO.6855
12 T3 100 YEAR FLOODWAY
13
14 J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ
15
16 -10. 6. 0. 0. 0.0 0.0 0.0 0. 225.300 0.0
17
18 J2 NPROF IPLIT PRFVS XSECV XSECH FN ALLDC IBW CHNIM ITRACE
19
20 15.000 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0
21
22
23 CCHV= 0.100 CEHV= 0.300
24 2800 NAT Q1= 1035.53 WSEL= 224.34 ENC Q1= 1035.53 WSEL= 225.34 RATIO= 0.0
25 NAT Q1= 1424. RATIOS LOB,CH,ROB= 0.6293 0.3423 0.0284 WSEL= 225.34
26 SECNO DEPTH CWSEL CRIWS WSELK EG HV HL OLOSS BANK ELEV
27 Q QLOB QCH QROB ALOB ACH AROB VOL TWA LEFT/RIGHT
28 TIME VLOB VCH VROB XNL XNCH XNR WTN ELMIN SSTA
29 SLOPE XLOBL XLCH XLOBR ITRIAL IDC ICONT CORAR TOPWID ENDST
30
31
32
33 3470 ENCROACHMENT STATIONS= 199.6 496.1 TYPE= 4 TARGET= 0.273
34 680.00 12.60 225.30 0.0 224.34 225.62 0.32 0.0 0.0 219.90
35 5700. 2868. 2690. 141. 1062. 452. 60. 0. 0. 220.70
36 0.0 2.70 5.95 2.34 0.085 0.060 0.085 0.0 212.70 199.60
37 0.003088 680. 680. 680. 0 0 1 0.0 296.49 496.10
38
39
40 2800 NAT Q1= 1218.31 WSEL= 224.57 ENC Q1= 1218.31 WSEL= 225.57 RATIO= 0.0
41 NAT Q1= 1772. RATIOS LOB,CH,ROB= 0.6050 0.3920 0.0030 WSEL= 225.57
42
43 3470 ENCROACHMENT STATIONS= 538.5 969.8 TYPE= 4 TARGET= 0.312
44 730.00 13.25 225.55 0.0 224.57 225.76 0.21 0.13 0.01 224.30
45 5700. 2443. 3239. 18. 1191. 719. 25. 2. 0. 224.50
46 0.00 2.05 4.50 0.74 0.085 0.060 0.085 0.059 212.30 538.52
47 0.002186 50. 50. 50. 2 0 1 0.0 451.33 969.85
48
49
50
51 SPECIAL BRIDGE
52
53 5070.VARIABLE ELCHU OR ELCHD ON CARD SB NOT SPECIFIED
54 SB XK XKOR COFQ RDLEN BWC BWP BAREA SS ELCHU ELCHD
55 1.05 1.50 2.50 0.0 81.00 0.00 426.00 0.0 212.30 212.30
56
57 6870 D.S. ENERGY OF 225.76 HIGHER THAN COMPUTED ENERGY OF 225.72
2800 NAT Q1= 1261.63 WSEL= 224.65 ENC Q1= 1261.63 WSEL= 225.65 RATIO= 0.0
NAT Q1= 1826. RATIOS LOB,CH,ROB= 0.6097 0.3867 0.0036 WSEL= 225.65
WATER EL=CHANGE FROM NATURAL PROFILES BRIDGE

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SUMMARY PRINTOUT FOR MULTIPLE PROFILES

100 YEAR FLOODWAY

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
680.00	680.00	0.0	0.0	212.70	5700.00	224.34	1035.53	224.58	480.59	0.0	0.0	5.51
680.00	680.00	0.0	0.0	212.70	5700.00	225.30	1025.80	225.62	296.49	199.60	496.10	5.95
730.00	50.00	0.0	0.0	212.30	5700.00	224.57	1218.31	224.72	775.60	0.0	0.0	4.17
730.00	50.00	0.0	0.0	212.30	5700.00	225.55	1219.17	225.76	431.33	538.52	969.85	4.50
750.00	20.00	0.0	0.0	212.30	5700.00	224.65	1261.63	224.79	784.42	0.0	0.0	4.05
750.00	20.00	0.0	0.0	212.30	5700.00	225.64	1262.13	225.83	437.09	533.49	970.58	4.38
800.00	50.00	0.0	0.0	212.70	5700.00	224.73	1178.14	224.92	488.68	0.0	0.0	4.98
800.00	50.00	0.0	0.0	212.70	5700.00	225.71	1169.34	225.96	308.58	189.40	497.98	5.36
2600.00	1800.00	0.0	0.0	217.70	5700.00	228.00	1545.84	228.08	500.31	0.0	0.0	3.49
2600.00	1800.00	0.0	0.0	217.70	5700.00	229.01	1558.41	229.12	368.81	176.18	544.99	3.72
4877.00	2277.00	0.0	0.0	220.30	5700.00	232.83	854.46	233.35	432.56	0.0	0.0	6.87
4877.00	2277.00	0.0	0.0	220.30	5700.00	233.77	824.53	234.52	173.43	157.43	330.86	7.61
4927.00	50.00	0.0	0.0	222.70	5700.00	232.12	294.60	235.46	59.64	0.0	0.0	14.66
4927.00	50.00	0.0	0.0	222.70	5700.00	232.92	352.02	235.57	59.64	721.36	781.00	13.06
4950.00	23.00	238.20	233.90	222.70	5700.00	233.15	369.18	235.64	59.64	0.0	0.0	12.66
4950.00	23.00	238.20	233.90	222.70	5700.00	234.15	446.32	236.09	59.64	0.0	0.0	11.18
5000.00	50.00	0.0	0.0	221.90	5700.00	235.91	4144.51	235.92	1103.22	0.0	0.0	1.60
5000.00	50.00	0.0	0.0	221.90	5700.00	236.31	3643.54	236.33	758.88	305.17	1064.05	1.87
7500.00	2500.00	0.0	0.0	230.50	4800.00	238.92	261.07	240.59	168.71	0.0	0.0	10.44
7500.00	2500.00	0.0	0.0	230.50	4800.00	238.92	261.25	240.59	168.00	105.00	273.00	10.43
10191.00	2681.00	0.0	0.0	240.30	4800.00	252.92	1151.56	253.12	346.32	0.0	0.0	4.70
10181.00	2681.00	0.0	0.0	240.30	4800.00	253.54	1113.43	253.81	191.69	281.26	472.95	5.05
10231.00	50.00	0.0	0.0	240.10	4800.00	252.88	738.37	253.32	324.90	0.0	0.0	6.35
10231.00	50.00	0.0	0.0	240.10	4800.00	253.42	682.44	254.07	154.78	288.64	443.43	7.12
10250.00	19.00	0.0	0.0	240.10	4800.00	253.10	790.68	253.50	335.01	0.0	0.0	6.02
10250.00	19.00	0.0	0.0	240.10	4800.00	253.64	733.38	254.21	166.09	281.81	447.91	6.72
10300.00	50.00	0.0	0.0	240.40	4800.00	253.47	1161.40	253.64	307.32	0.0	0.0	4.84
10300.00	50.00	0.0	0.0	240.40	4800.00	254.12	1072.79	254.38	240.64	269.19	509.83	5.44
12300.00	2000.00	0.0	0.0	247.50	4800.00	259.44	468.60	260.99	99.05	0.0	0.0	11.00
12300.00	2000.00	0.0	0.0	247.50	4800.00	260.48	518.48	262.05	59.02	90.07	149.10	10.65
13100.00	800.00	0.0	0.0	251.20	4200.00	264.49	869.50	264.74	290.96	0.0	0.0	5.23
13100.00	800.00	0.0	0.0	251.20	4200.00	265.13	899.80	265.40	193.78	189.96	383.74	5.26
15570.00	2470.00	0.0	0.0	261.00	4200.00	273.15	503.81	274.23	124.95	0.0	0.0	9.49
15570.00	2470.00	0.0	0.0	261.00	4200.00	273.55	473.61	274.99	53.08	46.35	99.43	10.34
15620.00	50.00	0.0	0.0	261.90	4200.00	273.97	666.99	274.54	82.00	0.0	0.0	6.04

Handwritten notes and symbols on the left margin, including 'X' marks and 'ZERO' annotations.

Handwritten 'ZERO' annotations in the right margin, corresponding to specific rows in the table.

Vertical line of numbers from 1 to 76, likely representing row indices or stationing.

15620.00 50.00 0.0 0.0 261.90 4200.00 274.85 775.45 275.32 82.00 75.00 157.00 5.48

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH	
1													
2													
3	15650.00	30.00	280.90	279.20	261.90	4200.00	273.99	668.06	274.55	82.00	0.0	0.0	6.03
4	15650.00	30.00	280.90	279.20	261.90	4200.00	274.99	792.70	275.44	82.00	0.0	0.0	5.40
5	<i>K</i> 15700.00	50.00	0.0	0.0	261.00	4200.00	274.05	609.92	274.83	135.13	0.0	0.0	8.27
6	<i>K</i> 15700.00	50.00	0.0	0.0	261.00	4200.00	274.81	608.24	275.77	65.16	42.94	108.10	8.65
7													
8													
9	<i>M</i> 17700.00	2000.00	0.0	0.0	271.40	4200.00	282.83	689.28	283.23	357.83	0.0	0.0	6.56
10	17700.00	2000.00	0.0	0.0	271.40	4200.00	283.59	699.38	284.07	194.22	154.14	348.36	6.79
11													
12													
13													
14													
15	<i>M</i> 18900.00	1200.00	0.0	0.0	275.70	4200.00	289.10	425.83	290.28	182.59	0.0	0.0	9.54
16	18900.00	1200.00	0.0	0.0	275.70	4200.00	289.69	410.31	291.28	60.00	470.00	530.00	10.33
17													
18													
19													
20													
21	<i>N</i> 20779.00	1879.00	0.0	0.0	287.30	4200.00	298.96	786.56	299.37	253.28	0.0	0.0	5.86
22	20779.00	1879.00	0.0	0.0	287.30	4200.00	299.54	833.26	299.97	133.03	85.53	218.56	5.75
23													
24													
25													
26													
27													
28													
29													
30													
31													
32	<i>O</i> 20900.00	50.00	0.0	0.0	282.50	4200.00	300.60	1340.45	300.79	305.14	0.0	0.0	4.05
33	20900.00	50.00	0.0	0.0	282.50	4200.00	301.00	1268.13	301.25	135.21	88.75	223.96	4.37
34													
35													
36													
37	<i>P</i> 21900.00	1000.00	0.0	0.0	292.40	4200.00	302.70	361.65	303.36	245.50	0.0	0.0	6.55
38	21900.00	1000.00	0.0	0.0	292.40	4200.00	303.21	444.92	303.73	178.00	322.00	500.00	5.78
39													
40													
41	<i>R</i> 25780.00	3800.00	0.0	0.0	308.90	4200.00	320.95	873.02	321.10	498.15	0.0	0.0	4.95
42	25780.00	3800.00	0.0	0.0	308.90	4200.00	321.35	784.70	321.59	200.11	445.61	645.72	5.65
43													
44													
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52	<i>S</i> 25900.00	50.00	0.0	0.0	309.90	4200.00	321.76	916.95	321.93	482.44	0.0	0.0	5.22
53	25900.00	50.00	0.0	0.0	309.90	4200.00	322.29	760.80	322.54	193.32	451.33	644.65	5.81
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SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSEL	TQ	EG	TOPWID	STENCL	STENCR	VCH
30450.00	25.00	0.0	0.0	324.30	1200.00	331.35	99.48	332.09	41.00	0.0	0.0	6.92
30450.00	25.00	0.0	0.0	324.30	1200.00	331.17	92.97	331.98	41.00	408.00	449.00	7.23
30500.00	50.00	0.0	0.0	323.90	1200.00	332.26	343.40	332.31	433.67	0.0	0.0	2.49
30500.00	50.00	0.0	0.0	323.90	1200.00	332.18	325.34	332.22	430.70	292.00	724.00	2.60
32500.00	2000.00	0.0	0.0	330.40	1200.00	337.37	111.62	338.06	98.92	0.0	0.0	7.41
32500.00	2000.00	0.0	0.0	330.40	1200.00	337.55	122.01	338.14	98.00	72.00	170.00	6.93
SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH				
680.000	5700.000	224.343	0.0	0.0	0.0	480.585	0.0	680.000	ZERO			
680.000	5700.000	225.300	0.957	0.0	0.0	296.491	184.094	680.000	ZERO			
730.000	5700.000	224.567	0.0	0.224	0.0	775.600	0.0	50.000				
730.000	5700.000	225.552	0.985	0.252	0.0	431.330	344.270	50.000				
750.000	5700.000	224.654	0.0	0.086	0.0	784.415	0.0	20.000				
750.000	5700.000	225.638	0.985	0.086	0.0	437.093	347.323	20.000				
800.000	5700.000	224.728	0.0	0.075	0.0	488.679	0.0	50.000				
800.000	5700.000	225.708	0.980	0.070	0.0	308.584	180.095	50.000				
2600.000	5700.000	227.998	0.0	3.270	0.0	500.309	0.0	1800.000	ZERO			
2600.000	5700.000	229.013	1.015	3.305	0.0	368.806	131.503	1800.000	ZERO			
4877.000	5700.000	232.833	0.0	4.835	0.0	432.563	0.0	2277.000				
4877.000	5700.000	233.768	0.935	4.755	0.0	173.428	259.135	2277.000				
4927.000	5700.000	232.125	0.0	-0.708	0.0	59.639	0.0	50.000				
4927.000	5700.000	232.920	0.795	-0.848	0.0	59.639	0.0	50.000				
4950.000	5700.000	233.154	0.0	1.029	0.0	59.639	0.0	23.000				
4950.000	5700.000	234.154	1.000	1.234	0.0	59.639	0.0	23.000				
5000.000	5700.000	235.910	0.0	2.756	0.0	1103.219	0.0	50.000				
5000.000	5700.000	236.305	0.395	2.151	0.0	758.880	344.340	50.000				
7500.000	4800.000	238.918	0.0	3.008	0.0	168.708	0.0	2500.000	ZERO			
7500.000	4800.000	238.920	0.001	2.614	0.0	167.999	0.709	2500.000	ZERO			
10181.000	4800.000	252.921	0.0	14.003	0.0	346.315	0.0	2681.000				
10181.000	4800.000	253.544	0.623	14.624	0.0	191.691	154.624	2681.000				
10231.000	4800.000	252.876	0.0	-0.044	0.0	324.905	0.0	50.000				
10231.000	4800.000	253.415	0.539	-0.129	0.0	154.782	170.122	50.000				
10250.000	4800.000	253.103	0.0	0.227	0.0	335.007	0.0	19.000				
10250.000	4800.000	253.642	0.539	0.227	0.0	166.093	168.914	19.000				
10300.000	4800.000	253.469	0.0	0.366	0.0	507.324	0.0	50.000				
10300.000	4800.000	254.120	0.651	0.478	0.0	240.635	266.689	50.000				
12300.000	4800.000	259.438	0.0	5.968	0.0	99.050	0.0	2000.000	ZERO			
12300.000	4800.000	260.480	1.042	6.360	0.0	59.022	40.027	2000.000	ZERO			
13100.000	4200.000	264.492	0.0	5.055	0.0	290.955	0.0	800.000				
13100.000	4200.000	265.126	0.634	4.646	0.0	193.779	97.176	800.000				

↑ SEE UP

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ZERO ST

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ZERO

	JK	15570,000	4200,000	273.153	0.0	8.661	0.0	124,954	0.0	2470,000	ZERO
		15570,000	4200,000	273.546	0.393	8,420	0.0	53,080	71.874	2470,000	
		15628,000	4200,000	273.975	0.0	0,822	0.0	82,000	0.0	50,000	
1		15620,000	4200,000	274.851	0.876	1,305	0.0	82,000	0.0	50,000	
2		15650,000	4200,000	273.988	0.0	0,013	0.0	82,000	0.0	50,000	
3		15650,000	4200,000	274.987	1.000	0,136	0.0	52,000	0.0	50,000	
4											
5	Kt	15700,000	4200,000	274.051	0.0	0,063	0.0	135,132	0.0	50,000	ZERO
6		15700,000	4200,000	274.813	0.762	-0,175	0.0	65,161	69.972	50,000	
7											
8	LH	17700,000	4200,000	282.833	0.0	8,783	0.0	357,826	0.0	2000,000	
9		17700,000	4200,000	283.587	0.753	8,774	0.0	194,216	163.610	2000,000	
10											
11	MH	18900,000	4200,000	289.096	0.0	6,262	0.0	182,589	0.0	1200,000	ZERO
12		18900,000	4200,000	289.694	0.598	6,107	0.0	59,999	122.590	1200,000	
13											
14	ND	20779,000	4200,000	298.960	0.0	9,864	0.0	253,281	0.0	1879,000	
15		20779,000	4200,000	299.545	0.585	9,851	0.0	133,028	120.253	1879,000	
16											
17		20829,000	4200,000	297.982	0.0	-0,978	0.0	40,060	0.0	50,000	
18		20829,000	4200,000	298.783	0.801	-0,762	0.0	40,631	-0.571	50,000	
19											
20		20850,000	4200,000	298.477	0.0	0,494	0.0	40,417	0.0	21,000	
21		20850,000	4200,000	299.277	0.801	0,494	0.0	40,984	-0.568	21,000	
22											
23	PP	20900,000	4200,000	300.599	0.0	2,122	0.0	305,144	0.0	50,000	
24		20900,000	4200,000	301.004	0.405	1,727	0.0	135,210	169.934	50,000	
25											
26	PP	21900,000	4200,000	302.703	0.0	2,104	0.0	245,496	0.0	1000,000	
27		21900,000	4200,000	303.214	0.511	2,210	0.0	178,001	67.495	1000,000	
28											
29	PK	25780,000	4200,000	320.954	0.0	18,250	0.0	498,154	0.0	3800,000	
30		25780,000	4200,000	321.348	0.394	18,134	0.0	200,112	298.042	3800,000	
31											
32		25830,000	4200,000	320.501	0.0	-0,452	0.0	283,690	0.0	50,000	
33		25830,000	4200,000	320.823	0.322	-0,525	0.0	52,001	231.609	50,000	
34											
35		25850,000	4200,000	320.498	0.0	-0,003	0.0	283,130	0.0	20,000	
36		25850,000	4200,000	320.819	0.322	-0,003	0.0	52,001	231.129	20,000	
37											
38	RS	25900,000	4200,000	321.761	0.0	1,263	0.0	482,445	0.0	50,000	
39		25900,000	4200,000	322.289	0.528	1,469	0.0	193,520	289.125	50,000	
40											
41	ST	27100,000	1700,000	322.802	0.0	1,041	0.0	704,307	0.0	1200,000	
42		27100,000	1700,000	323.556	0.754	1,267	0.0	439,172	265.135	1200,000	
43											
44	TH	28100,000	1200,000	323.053	0.0	0,251	0.0	444,268	0.0	1000,000	
45		28100,000	1200,000	323.639	0.786	0,283	0.0	235,417	208.851	1000,000	
46											
47	TV	29500,000	1200,000	324.820	0.0	1,767	0.0	474,355	0.0	1400,000	
48		29500,000	1200,000	325.788	0.968	1,949	0.0	138,290	336.065	1400,000	
49											
50	VH	30375,000	1200,000	330.121	0.0	5,301	0.0	195,959	0.0	875,000	
51		30375,000	1200,000	330.486	0.365	4,699	0.0	239,250	-43.292	875,000	
52											
53		30425,000	1200,000	331.345	0.0	1,224	0.0	41,000	0.0	50,000	
54		30425,000	1200,000	331.172	-0.173	0,686	0.0	41,000	0.0	50,000	
55											
56		30450,000	1200,000	331.345	0.0	0,000	0.0	41,000	0.0	25,000	
57		30450,000	1200,000	331.172	-0.173	0,000	0.0	41,000	0.0	25,000	
	WX	30500,000	1200,000	332.262	0.0	0,917	0.0	433,674	0.0	50,000	No ENCROACHMENT
		30500,000	1200,000	332.177	-0.086	1,004	0.0	430,701	2,973	50,000	

