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DTM
DATABASED TERRAIN MAPPING, INC.

May 29, 2003

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
2801 West Durango
Phoenix, Arizona 85009

Attn: Mr. John stock, RLS

RE: Contract FCD 2000C035
Task Assignment #5
Upper New River Mapping (Survey & Aerial Photography Acquisition)
PCN 014.01.24 Low Org 6926 **SURVEY REPORT**

Dear Mr. Stock:

The Task Assignment requires establishing ground control survey data for 1"=200', 2-foot contour interval mapping, and structure surveys for all structures within the mapping area. Additionally, the Task Assignment includes acquisition of black & white stereo aerial photography suitable for the required 1"=200', 2-foot contour interval mapping to be competed under Contract FCD2001C051.

This report defines the survey work completed according to FCDMC and FEMA standards. Project limits are defined as the Upper New River Watershed – "West Portion" and are further defined by the attached site/location map.

DTM, Inc. completed research and site reconnaissance to establish a ground control network for mapping and set a total of 78 monuments throughout the site. Four Maricopa County GDACS points were occupied as primary control for the survey network. Also, the "USCELA DIST" monument at New River Dam was recovered and targeted to tie the project to our previous work competed for the Glendale/Peoria Area Drainage Masterplan. All 78 monuments were set with 2" aluminum caps on ½"x18" rebar. All caps are stamped with "FCDMC", "DTM, INC", "RLS 26401", and a five-digit point number series "43XXX.", except where other monuments were found and used (GDACS and CofE.)

Of the 78 points set in the field, 37 were placed as "blind targets" and not measured during our field survey efforts. Photogrammetric values will be calculated for these points through analytical aerotriangulation and submitted to FCDMC for validation/approval.

The control point network was established by Static GPS methods with continuous occupation of at least two GDACS points. All other photogrammetric control points were occupied for a minimum of 40 minutes each with "session" overlaps between other control points during the operational process of moving and setting a total of four GPS collection units in addition to the two continuously operating base stations (GDACS points.) The post-processing and unconstrained adjustment validated the quality of the network by checking calculated values against published values for the GDACS points and the Corps of Engineers monument at New River Dam.

All data submitted for this project is based on WGS84 with theNAD83 Arizona State Plane Coordinate System (Central Zone) projection and NAVD88 vertical datum. Coordinate triplets are International Foot units of measurement. The final vertical adjustment utilized the '96 Geoid model.

NAVD 88 minus NGVD29 +1.907 feet

Field surveys and data processing were competed under the direct supervision of Mr. Lee Harbers, Arizona RLS #26401.

Respectfully Submitted,

DATABASED TERRAIN MAPPING, INC.
Lee Harbers, RLS, Certified Photogrammetrist
President

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
26401
LEE
HARBERS
Date Signed 4-30-03
ARIZONA U.S.A.

GPS DATA

CONTRACT 2000C035 – TASK ASSIGNMENT #5
UPPER NEW RIVER WATERSHED
GPS CONTROL SURVEY DATA

PRIMARY CONTROL FOR THIS PROJECT:

GDACS 1LB2
GDACS 1LC2
GDACS NR18
GDACS 1JB2

Project:	NEWRIVER
Supervisor:	HARBERS
Date Created:	4/6/2003 18:04
Date Last Accessed:	4/6/2003 18:04
Project Directory:	C:\GPSURVEY\projects\NEWRIVER
Antenna Type:	4600LS Internal
Antenna Measurement Method:	Reading from hook using 4600LS tape
Antenna Group:	GPSurvey
Receiver Type:	4600LS
Coordinate System:	Geographic
Zone:	WGS84
Linear Unit:	Meter
Timezone:	Mountain Std USA :--7:00
Number of Stations:	46
Number of Baselines:	139
No. of Continuous Kinematic Solns:	0

**** Reference Coordinates ****

Station	Latitude	Longitude	Height	Quality
43180	33°44'22.82385" N	112°12'12.47425" W	439.84818	Baseline Solutions
43178	33°43'57.55489" N	112°13'57.21067" W	405.94966	Baseline Solutions
43176	33°43'55.99427" N	112°15'27.79346" W	398.40815	Baseline Solutions
43160	33°46'06.29875" N	112°15'00.34623" W	424.14976	Baseline Solutions
43153	33°46'58.63315" N	112°13'45.68940" W	428.32345	Baseline Solutions
43171	33°45'05.41411" N	112°13'33.76721" W	406.72604	Baseline Solutions
43170	33°44'56.52354" N	112°14'55.50958" W	411.83471	Baseline Solutions
43162	33°45'56.34351" N	112°13'47.80235" W	415.58388	Baseline Solutions
43130	33°49'43.34010" N	112°11'19.17175" W	483.96748	Baseline Solutions
43129	33°49'41.02040" N	112°12'10.02842" W	477.20785	Baseline Solutions
43181	33°44'24.71363" N	112°11'27.01953" W	435.28734	Baseline Solutions
43169	33°45'24.52556" N	112°11'20.48754" W	455.84152	Baseline Solutions
43168	33°45'19.82870" N	112°12'25.57176" W	428.74761	Baseline Solutions
43159	33°46'15.63864" N	112°12'09.34438" W	441.37332	Baseline Solutions
43158	33°46'48.09152" N	112°11'18.70114" W	440.78783	Baseline Solutions
43156	33°46'30.92498" N	112°12'57.03244" W	426.07950	Baseline Solutions
43179	33°44'14.59485" N	112°13'03.62207" W	410.19968	Baseline Solutions
43177	33°43'57.07769" N	112°14'41.16934" W	407.96746	Baseline Solutions
43161	33°46'01.29070" N	112°14'34.30505" W	421.01838	Baseline Solutions

43148	33°47'51.14986" N	112°11'16.20243" W	453.62725	Baseline Solutions
NR18	33°48'09.70661" N	112°10'59.32811" W	460.13254	Baseline Solutions
1JB2	33°46'06.71011" N	112°15'19.87065" W	426.41049	Baseline Solutions
43146	33°47'50.07973" N	112°12'57.72033" W	443.40221	Baseline Solutions
43143	33°47'53.64947" N	112°14'38.11864" W	452.11098	Baseline Solutions
43114	33°51'04.44696" N	112°14'34.78569" W	508.28177	Baseline Solutions
43111	33°51'13.67175" N	112°15'16.55286" W	517.50910	Baseline Solutions
43108	33°51'54.83692" N	112°12'55.90389" W	505.25225	Baseline Solutions
43104	33°53'28.98817" N	112°12'10.33758" W	562.78518	Baseline Solutions
43103	33°53'29.96195" N	112°12'55.48186" W	647.78739	Baseline Solutions
43102	33°53'15.46318" N	112°13'46.72177" W	787.09556	Baseline Solutions
43101	33°53'13.62387" N	112°14'18.38960" W	714.26783	Baseline Solutions
43147	33°47'51.26986" N	112°12'09.87017" W	448.67472	Baseline Solutions
43133	33°49'01.31635" N	112°13'21.36561" W	457.48968	Baseline Solutions
43127	33°49'48.08869" N	112°14'33.96808" W	484.72174	Baseline Solutions
43126	33°49'40.50570" N	112°15'08.43333" W	483.12378	Baseline Solutions
43125	33°50'14.37620" N	112°13'46.65928" W	486.91987	Baseline Solutions
43121	33°50'25.46652" N	112°12'55.50046" W	480.01252	Baseline Solutions
43118	33°50'55.61513" N	112°11'47.90318" W	497.29615	Baseline Solutions
43110	33°51'56.20111" N	112°11'22.45591" W	519.18551	Baseline Solutions
43144	33°47'54.13628" N	112°13'50.94970" W	444.31052	Baseline Solutions
43142	33°47'52.61462" N	112°15'08.67316" W	452.57957	Baseline Solutions
43136	33°48'48.60767" N	112°14'56.20606" W	466.35163	Baseline Solutions
43112	33°51'25.11902" N	112°13'47.88420" W	504.70710	Baseline Solutions
43109	33°51'53.50213" N	112°12'10.85821" W	512.53303	Baseline Solutions
1LC2	33°52'15.78058" N	112°11'07.65914" W	530.00838	Baseline Solutions
1LB2	33°50'40.61910" N	112°14'48.74842" W	503.58600	Fixed Control

**** Adjusted Coordinates ****

Projection Group: Geographic
Zone Name: Global

Linear Units: meter
Angular Units: degrees
Datum Name: NAD-83

Station	Latitude	Longitude	Ortho. Height	Ellip. Height
1JB2	33°46'06.70965" N	112°15'19.87078" W	455.94698	426.37711
1LB2	33°50'40.61910" N	112°14'48.74842" W	532.90448	503.57176
1LC2	33°52'15.78072" N	112°11'07.65913" W	559.11600	529.99700
43101	33°53'13.62382" N	112°14'18.38979" W	743.41202	714.25996
43102	33°53'15.46326" N	112°13'46.72175" W	816.23911	787.10599
43103	33°53'29.96183" N	112°12'55.48152" W	676.86910	647.77597
43104	33°53'28.98838" N	112°12'10.33759" W	591.84089	562.77107
43108	33°51'54.83685" N	112°12'55.90390" W	534.46418	505.26357
43109	33°51'53.50216" N	112°12'10.85840" W	541.70993	512.53075
43110	33°51'56.20124" N	112°11'22.45591" W	548.32304	519.17359
43111	33°51'13.67171" N	112°15'16.55278" W	546.79987	517.49311
43112	33°51'25.11888" N	112°13'47.88453" W	533.95275	504.69640
43114	33°51'04.44705" N	112°14'34.78566" W	537.56747	508.26853
43118	33°50'55.61511" N	112°11'47.90338" W	526.52107	497.29196
43121	33°50'25.46639" N	112°12'55.50071" W	509.29986	480.00387
43125	33°50'14.37609" N	112°13'46.65915" W	516.23712	486.90461
43126	33°49'40.50574" N	112°15'08.43337" W	512.53120	483.13417
43127	33°49'48.08897" N	112°14'33.96819" W	514.07979	484.70226
43129	33°49'41.02003" N	112°12'10.02890" W	506.48475	477.17081

43130	33°49'43.33982" N	112°11'19.17185" W	513.23067	483.94742
43133	33°49'01.31645" N	112°13'21.36565" W	486.86265	457.47645
43136	33°48'48.60739" N	112°14'56.20600" W	495.76833	466.33304
43142	33°47'52.61459" N	112°15'08.67334" W	482.05263	452.56655
43143	33°47'53.64942" N	112°14'38.11879" W	481.57173	452.10018
43144	33°47'54.13639" N	112°13'50.95000" W	473.75055	444.29988
43146	33°47'50.07985" N	112°12'57.72050" W	472.82121	443.39233
43147	33°47'51.26995" N	112°12'09.87031" W	478.06857	448.66398
43148	33°47'51.14968" N	112°11'16.20255" W	482.96795	453.59071
43153	33°46'58.63278" N	112°13'45.68974" W	457.77749	428.29044
43156	33°46'30.92456" N	112°12'57.03268" W	455.52591	426.04234
43158	33°46'48.09121" N	112°11'18.70129" W	470.18390	440.75982
43159	33°46'15.63834" N	112°12'09.34495" W	470.80507	441.33337
43160	33°46'06.29844" N	112°15'00.34649" W	453.69206	424.13079
43161	33°46'01.29021" N	112°14'34.30557" W	450.54014	420.98880
43162	33°45'56.34304" N	112°13'47.80236" W	445.08678	415.55380
43168	33°45'19.82810" N	112°12'25.57174" W	458.23437	428.71482
43169	33°45'24.52502" N	112°11'20.48763" W	485.31090	455.82565
43170	33°44'56.52316" N	112°14'55.50963" W	441.41737	411.80802
43171	33°45'05.41352" N	112°13'33.76721" W	436.25693	406.69325
43176	33°43'55.99378" N	112°15'27.79364" W	428.05551	398.38394
43177	33°43'57.07722" N	112°14'41.16948" W	437.59258	407.94435
43178	33°43'57.55423" N	112°13'57.21078" W	435.54533	405.91904
43179	33°44'14.59426" N	112°13'03.62198" W	439.75613	410.16950
43180	33°44'22.82330" N	112°12'12.47407" W	469.37441	439.81999
43181	33°44'24.71323" N	112°11'27.01977" W	464.79293	435.26224
NR18	33°48'09.70630" N	112°10'59.32822" W	489.45267	460.09919

From	To	Solution Type	Slope	Ratio	Reference Variance	Ant.Ht. (From)	Ant.Ht. (From)
1JB2	43162	L1 fixed	2390.742	37.9	1.325	1.288	1.280
1JB2	43168	L1 fixed	4712.528	9.4	2.180	1.288	1.428
1JB2	43169	L1 fixed	6296.316	13.5	3.525	1.288	1.523
1JB2	43170	L1 fixed	2251.722	10.8	1.986	1.288	1.200
1JB2	43171	L1 fixed	3320.267	30.2	1.561	1.288	1.325
1JB2	43176	L1 fixed	4032.939	39.8	2.289	1.288	1.240
1JB2	43177	L1 fixed	4116.681	14.4	3.589	1.288	1.270
1JB2	43178	L1 fixed	4512.673	21.5	2.188	1.288	1.311
1JB2	43179	L1 fixed	4922.582	14.9	3.427	1.288	1.341
1JB2	43180	L1 fixed	5788.778	6.3	5.132	1.288	1.304
1JB2	43181	L1 fixed	6767.137	5.1	3.697	1.288	1.473
1LB2	1LC2	L1 fixed	6395.473	11.1	3.503	1.447	1.400
1LB2	43101	L1 fixed	4783.475	30.9	1.642	1.447	1.137
1LB2	43102	L1 fixed	5038.736	18.6	3.021	1.447	1.257
1LB2	43103	L1 fixed	5977.122	5.0	2.526	1.447	1.226
1LB2	43104	L1 fixed	6595.410	13.3	3.618	1.447	1.375
1LB2	43108	L1 fixed	3694.013	23.1	2.353	1.447	1.413
1LB2	43109	L1 fixed	4638.899	14.3	2.850	1.447	1.268
1LB2	43110	L1 fixed	5792.229	14.2	2.696	1.447	1.430
1LB2	43111	L1 fixed	1244.372	23.9	1.171	1.447	1.401
1LB2	43112	L1 fixed	2080.538	23.8	1.054	1.447	1.414
1LB2	43114	L1 fixed	817.294	81.6	0.991	1.447	1.407
1LB2	43118	L1 fixed	4672.510	17.3	2.259	1.447	1.397
1LB2	43121	L1 fixed	2949.077	10.8	2.527	1.447	1.433
1LB2	43125	L1 fixed	1789.642	20.1	1.195	1.447	1.453
1LB2	43126	L1 fixed	1920.311	38.8	1.070	1.447	1.463

1LB2	43127	L1 fixed	1662.751	41.0	1.332	1.447	1.480
1LB2	43129	L1 fixed	4475.444	8.1	3.944	1.511	1.276
1LB2	43130	L1 fixed	5670.632	17.6	1.780	1.511	1.284
1LB2	43133	L1 fixed	3796.573	44.0	1.274	1.447	1.445
1LB2	43136	L1 fixed	3456.971	35.5	1.157	1.447	1.402
1LB2	43142	L1 fixed	5202.305	31.8	1.928	1.447	1.337
1LB2	43143	L1 fixed	5152.384	26.3	1.774	1.447	1.354
1LB2	43144	L1 fixed	5341.208	23.0	2.449	1.447	1.299
1LB2	43146	L1 fixed	5980.847	21.2	4.011	1.447	1.237
1LB2	43147	L1 fixed	6627.831	27.6	3.723	1.447	1.434
1LB2	43148	L1 fixed	7559.801	27.0	2.401	1.511	1.302
1LB2	43153	L1 fixed	7030.141	27.5	5.466	1.511	1.315
1LB2	43156	L1 fixed	8213.305	14.2	3.464	1.511	1.437
1LB2	43158	L1 fixed	8973.695	11.7	2.810	1.511	1.501
1LB2	43159	L1 fixed	9136.770	3.8	9.007	1.511	1.505
1LB2	43160	L1 fixed	8458.286	21.9	3.156	1.511	1.330
1LB2	43161	L1 fixed	8615.386	7.3	3.708	1.511	1.310
1LB2	NR18	L1 fixed	7512.398	26.5	7.784	1.511	1.534
1LC2	43101	L1 fixed	5219.258	32.6	1.903	1.400	1.137
1LC2	43102	L1 fixed	4490.098	20.7	2.869	1.400	1.257
1LC2	43103	L1 fixed	3594.123	3.4	9.354	1.400	1.226
1LC2	43104	L1 fixed	2772.108	33.5	1.173	1.400	1.375
1LC2	43108	L1 fixed	2856.302	32.9	1.596	1.400	1.413
1LC2	43109	L1 fixed	1763.660	26.9	1.570	1.400	1.268
1LC2	43110	L1 fixed	713.276	38.6	1.053	1.400	1.430
1LC2	43111	L1 fixed	6678.135	9.8	2.440	1.400	1.401
1LC2	43112	L1 fixed	4404.630	11.8	2.296	1.400	1.414
1LC2	43118	L1 fixed	2678.272	23.4	1.708	1.400	1.397
1LC2	43121	L1 fixed	4386.659	14.6	1.871	1.400	1.433
1LC2	43125	L1 fixed	5541.186	6.6	2.516	1.400	1.453
1LC2	43126	L1 fixed	7823.884	15.7	4.030	1.400	1.463
1LC2	43127	L1 fixed	6988.983	31.6	1.725	1.400	1.480
1LC2	43133	L1 fixed	6908.597	24.4	2.096	1.400	1.445
1LC2	43136	L1 fixed	8676.825	20.8	1.832	1.400	1.402
1LC2	43142	L1 fixed	10206.407	13.6	5.455	1.400	1.337
1LC2	43143	L1 fixed	9722.831	13.4	4.046	1.400	1.354
1LC2	43144	L1 fixed	9090.417	19.9	2.798	1.400	1.299
1LC2	43146	L1 fixed	8662.913	26.8	3.293	1.400	1.237
1LC2	43147	L1 fixed	8306.355	28.3	3.682	1.400	1.434
43108	43102	L1 fixed	2820.967	23.9	1.592	1.413	1.257
43109	43102	L1 fixed	3539.025	14.0	2.742	1.268	1.257
43109	43108	L1 fixed	1158.647	15.3	1.609	1.268	1.413
43109	43126	L1 fixed	6135.092	6.1	1.851	1.268	1.463
43110	43104	L1 fixed	3113.017	20.0	1.173	1.430	1.375
43111	43103	L1 fixed	5549.906	3.6	2.599	1.401	1.226
43111	43125	L1 fixed	2946.361	15.7	1.512	1.401	1.453
43111	43136	L1 fixed	4500.718	9.4	1.274	1.401	1.402
43112	43121	L1 fixed	2278.819	7.2	2.121	1.414	1.433
43114	1LC2	L1 fixed	5760.340	33.5	1.770	1.407	1.400
43114	43104	L1 fixed	5798.668	25.4	1.752	1.407	1.375
43114	43110	L1 fixed	5195.055	18.1	1.148	1.407	1.430
43114	43112	L1 fixed	1363.659	21.4	1.200	1.407	1.414
43114	43121	L1 fixed	2821.293	17.1	1.250	1.407	1.433
43125	43103	L1 fixed	6170.755	3.2	1.885	1.453	1.226
43125	43136	L1 fixed	3191.180	7.1	1.468	1.453	1.402
43126	43102	L1 fixed	6955.491	5.8	3.571	1.463	1.257
43126	43108	L1 fixed	5361.326	15.2	2.369	1.463	1.413

43127	43136	L1 fixed	1920.059	14.3	0.579	1.480	1.402
43129	43159	L1 fixed	6328.553	4.7	2.988	1.276	1.505
43130	43160	L1 fixed	8780.705	4.8	5.021	1.284	1.330
43133	43101	L1 fixed	7915.751	30.5	1.644	1.445	1.137
43133	43142	L1 fixed	3478.483	36.3	1.480	1.445	1.337
43133	43143	L1 fixed	2871.404	28.7	1.730	1.445	1.354
43142	43101	L1 fixed	9979.087	18.4	2.531	1.337	1.137
43143	43101	L1 fixed	9876.152	19.4	2.334	1.354	1.137
43143	43142	L1 fixed	786.656	50.5	0.875	1.354	1.337
43146	43144	L1 fixed	1375.012	10.9	2.271	1.237	1.299
43147	43144	L1 fixed	2601.758	25.3	1.747	1.434	1.299
43147	43146	L1 fixed	1231.503	32.3	1.449	1.434	1.237
43148	43160	L1 fixed	6610.423	5.4	3.200	1.302	1.330
43153	43129	L1 fixed	5576.161	11.3	3.066	1.315	1.276
43153	43156	L1 fixed	1515.365	23.9	1.412	1.315	1.437
43153	43159	L1 fixed	2810.854	12.3	2.386	1.315	1.505
43153	43161	L1 fixed	2164.903	13.5	1.990	1.315	1.310
43158	43130	L1 fixed	5400.127	8.4	0.579	1.501	1.284
43161	43159	L1 fixed	3756.490	5.7	2.621	1.310	1.505
43162	43169	L1 fixed	3916.167	19.4	2.686	1.280	1.523
43162	43176	L1 fixed	4513.916	22.0	2.131	1.280	1.240
43162	43177	L1 fixed	3923.217	13.7	1.482	1.280	1.270
43168	43178	L1 fixed	3462.844	10.5	1.399	1.428	1.311
43170	43181	L1 fixed	5455.498	7.2	2.131	1.200	1.473
43171	43168	L1 fixed	1810.672	16.5	1.596	1.325	1.428
43171	43178	L1 fixed	2176.255	6.3	2.164	1.325	1.311
43176	43169	L1 fixed	6925.933	12.2	4.332	1.240	1.523
43176	43177	L1 fixed	1200.806	20.7	2.439	1.240	1.270
43177	43169	L1 fixed	5826.402	14.6	2.128	1.270	1.523
43179	43170	L1 fixed	3156.593	14.0	1.491	1.341	1.200
43179	43178	L1 fixed	1476.102	8.2	1.513	1.341	1.311
43179	43180	L1 fixed	1341.193	32.5	0.983	1.341	1.304
43179	43181	L1 fixed	2506.365	12.3	1.537	1.341	1.473
43180	43170	L1 fixed	4323.300	15.6	0.957	1.304	1.200
43180	43181	L1 fixed	1171.544	17.6	0.814	1.304	1.473
NR18	1JB2	L1 fixed	7700.615	60.9	4.549	1.534	1.288
NR18	43129	L1 fixed	3350.146	13.1	2.994	1.534	1.276
NR18	43130	L1 fixed	2930.027	24.9	1.384	1.534	1.284
NR18	43148	L1 fixed	717.920	61.8	0.985	1.534	1.302
NR18	43153	L1 fixed	4807.734	13.5	2.609	1.534	1.315
NR18	43156	L1 fixed	4293.692	27.3	1.477	1.534	1.437
NR18	43158	L1 fixed	2563.785	42.9	0.666	1.534	1.501
NR18	43159	L1 fixed	3949.547	15.2	1.902	1.534	1.505
NR18	43160	L1 fixed	7274.175	12.8	5.606	1.534	1.330
NR18	43161	L1 fixed	6800.834	7.1	2.948	1.534	1.310
NR18	43162	L1 fixed	5973.066	12.1	4.512	1.534	1.280
NR18	43168	L1 fixed	5685.465	5.4	3.366	1.534	1.428
NR18	43169	L1 fixed	5118.748	16.7	3.684	1.534	1.523
NR18	43170	L1 fixed	8506.935	4.7	4.947	1.534	1.200
NR18	43171	L1 fixed	6931.136	20.5	2.522	1.534	1.325
NR18	43176	L1 fixed	10433.010	16.4	5.624	1.534	1.240
NR18	43177	L1 fixed	9653.342	19.2	3.970	1.534	1.270
NR18	43178	L1 fixed	9017.893	11.1	4.529	1.534	1.311
NR18	43179	L1 fixed	7919.255	12.9	5.036	1.534	1.341
NR18	43180	L1 fixed	7239.881	10.4	4.516	1.534	1.304
NR18	43181	L1 fixed	6969.233	7.6	3.828	1.534	1.473

**** SSF/SSK Solution Output Files For Selected Baselines ****

output file	From Station	To Station	Solution Type	Slope	Ratio	Reference Variance
00000461.ssf	1JB2	43162	L1 fixed	2390.742	37.9	1.325
00000441.ssf	1JB2	43168	L1 fixed	4712.528	9.4	2.180
00000457.ssf	1JB2	43169	L1 fixed	6296.316	13.5	3.525
00000429.ssf	1JB2	43170	L1 fixed	2251.722	10.8	1.986
00000445.ssf	1JB2	43171	L1 fixed	3320.267	30.2	1.561
00000453.ssf	1JB2	43176	L1 fixed	4032.939	39.8	2.289
00000449.ssf	1JB2	43177	L1 fixed	4116.681	14.4	3.589
00000437.ssf	1JB2	43178	L1 fixed	4512.673	21.5	2.188
00000433.ssf	1JB2	43179	L1 fixed	4922.582	14.9	3.427
00000421.ssf	1JB2	43180	L1 fixed	5788.778	6.3	5.132
00000425.ssf	1JB2	43181	L1 fixed	6767.137	5.1	3.697
00000093.ssf	1LB2	1LC2	L1 fixed	6395.473	11.1	3.503
00000021.ssf	1LB2	43101	L1 fixed	4783.475	30.9	1.642
00000041.ssf	1LB2	43102	L1 fixed	5038.736	18.6	3.021
00000069.ssf	1LB2	43103	L1 fixed	5977.122	5.0	2.526
00000085.ssf	1LB2	43104	L1 fixed	6595.410	13.3	3.618
00000049.ssf	1LB2	43108	L1 fixed	3694.013	23.1	2.353
00000037.ssf	1LB2	43109	L1 fixed	4638.899	14.3	2.850
00000089.ssf	1LB2	43110	L1 fixed	5792.229	14.2	2.696
00000061.ssf	1LB2	43111	L1 fixed	1244.372	23.9	1.171
00000077.ssf	1LB2	43112	L1 fixed	2080.538	23.8	1.054
00000081.ssf	1LB2	43114	L1 fixed	817.294	81.6	0.991
00000033.ssf	1LB2	43118	L1 fixed	4672.510	17.3	2.259
00000073.ssf	1LB2	43121	L1 fixed	2949.077	10.8	2.527
00000065.ssf	1LB2	43125	L1 fixed	1789.642	20.1	1.195
00000045.ssf	1LB2	43126	L1 fixed	1920.311	38.8	1.070
00000053.ssf	1LB2	43127	L1 fixed	1662.751	41.0	1.332
00000305.ssf	1LB2	43129	L1 fixed	4475.444	8.1	3.944
00000317.ssf	1LB2	43130	L1 fixed	5670.632	17.6	1.780
00000025.ssf	1LB2	43133	L1 fixed	3796.573	44.0	1.274
00000057.ssf	1LB2	43136	L1 fixed	3456.971	35.5	1.157
00000029.ssf	1LB2	43142	L1 fixed	5202.305	31.8	1.928
00000017.ssf	1LB2	43143	L1 fixed	5152.384	26.3	1.774
00000013.ssf	1LB2	43144	L1 fixed	5341.208	23.0	2.449
00000005.ssf	1LB2	43146	L1 fixed	5980.847	21.2	4.011
00000009.ssf	1LB2	43147	L1 fixed	6627.831	27.6	3.723
00000329.ssf	1LB2	43148	L1 fixed	7559.801	27.0	2.401
00000309.ssf	1LB2	43153	L1 fixed	7030.141	27.5	5.466
00000293.ssf	1LB2	43156	L1 fixed	8213.305	14.2	3.464
00000313.ssf	1LB2	43158	L1 fixed	8973.695	11.7	2.810
00000301.ssf	1LB2	43159	L1 fixed	9136.770	3.8	9.007
00000321.ssf	1LB2	43160	L1 fixed	8458.286	21.9	3.156
00000297.ssf	1LB2	43161	L1 fixed	8615.386	7.3	3.708
00000325.ssf	1LB2	NR18	L1 fixed	7512.398	26.5	7.784
00000133.ssf	1LC2	43101	L1 fixed	5219.258	32.6	1.903
00000153.ssf	1LC2	43102	L1 fixed	4490.098	20.7	2.869
00000181.ssf	1LC2	43103	L1 fixed	3594.123	3.4	9.354
00000193.ssf	1LC2	43104	L1 fixed	2772.108	33.5	1.173
00000161.ssf	1LC2	43108	L1 fixed	2856.302	32.9	1.596
00000149.ssf	1LC2	43109	L1 fixed	1763.660	26.9	1.570
00000197.ssf	1LC2	43110	L1 fixed	713.276	38.6	1.053
00000173.ssf	1LC2	43111	L1 fixed	6678.135	9.8	2.440
00000189.ssf	1LC2	43112	L1 fixed	4404.630	11.8	2.296
00000145.ssf	1LC2	43118	L1 fixed	2678.272	23.4	1.708

00000185.ssf	1LC2	43121	L1	fixed	4386.659	14.6	1.871
00000177.ssf	1LC2	43125	L1	fixed	5541.186	6.6	2.516
00000157.ssf	1LC2	43126	L1	fixed	7823.884	15.7	4.030
00000165.ssf	1LC2	43127	L1	fixed	6988.983	31.6	1.725
00000137.ssf	1LC2	43133	L1	fixed	6908.597	24.4	2.096
00000169.ssf	1LC2	43136	L1	fixed	8676.825	20.8	1.832
00000141.ssf	1LC2	43142	L1	fixed	10206.407	13.6	5.455
00000129.ssf	1LC2	43143	L1	fixed	9722.831	13.4	4.046
00000125.ssf	1LC2	43144	L1	fixed	9090.417	19.9	2.798
00000117.ssf	1LC2	43146	L1	fixed	8662.913	26.8	3.293
00000121.ssf	1LC2	43147	L1	fixed	8306.355	28.3	3.682
00000253.ssf	3108	43102	L1	fixed	2820.967	23.9	1.592
00000221.ssf	3109	43102	L1	fixed	3539.025	14.0	2.742
00000229.ssf	3109	43108	L1	fixed	1158.647	15.3	1.609
00000225.ssf	3109	43126	L1	fixed	6135.092	6.1	1.851
00000201.ssf	3110	43104	L1	fixed	3113.017	20.0	1.173
00000213.ssf	3111	43103	L1	fixed	5549.906	3.6	2.599
00000209.ssf	3111	43125	L1	fixed	2946.361	15.7	1.512
00000205.ssf	3111	43136	L1	fixed	4500.718	9.4	1.274
00000217.ssf	3112	43121	L1	fixed	2278.819	7.2	2.121
00000113.ssf	3114	1LC2	L1	fixed	5760.340	33.5	1.770
00000105.ssf	3114	43104	L1	fixed	5798.668	25.4	1.752
00000109.ssf	3114	43110	L1	fixed	5195.055	18.1	1.148
00000101.ssf	3114	43112	L1	fixed	1363.659	21.4	1.200
00000097.ssf	3114	43121	L1	fixed	2821.293	17.1	1.250
00000241.ssf	3125	43103	L1	fixed	6170.755	3.2	1.885
00000237.ssf	3125	43136	L1	fixed	3191.180	7.1	1.468
00000245.ssf	3126	43102	L1	fixed	6955.491	5.8	3.571
00000249.ssf	3126	43108	L1	fixed	5361.326	15.2	2.369
00000233.ssf	3127	43136	L1	fixed	1920.059	14.3	0.579
00000537.ssf	3129	43159	L1	fixed	6328.553	4.7	2.988
00000549.ssf	3130	43160	L1	fixed	8780.705	4.8	5.021
00000261.ssf	3133	43101	L1	fixed	7915.751	30.5	1.644
00000265.ssf	3133	43142	L1	fixed	3478.483	36.3	1.480
00000257.ssf	3133	43143	L1	fixed	2871.404	28.7	1.730
00000277.ssf	3142	43101	L1	fixed	9979.087	18.4	2.531
00000269.ssf	3143	43101	L1	fixed	9876.152	19.4	2.334
00000273.ssf	3143	43142	L1	fixed	786.656	50.5	0.875
00000289.ssf	3146	43144	L1	fixed	1375.012	10.9	2.271
00000285.ssf	3147	43144	L1	fixed	2601.758	25.3	1.747
00000281.ssf	3147	43146	L1	fixed	1231.503	32.3	1.449
00000417.ssf	3148	43160	L1	fixed	6610.423	5.4	3.200
00000477.ssf	3153	43129	L1	fixed	5576.161	11.3	3.066
00000465.ssf	3153	43156	L1	fixed	1515.365	23.9	1.412
00000473.ssf	3153	43159	L1	fixed	2810.854	12.3	2.386
00000469.ssf	3153	43161	L1	fixed	2164.903	13.5	1.990
00000541.ssf	3158	43130	L1	fixed	5400.127	8.4	0.579
00000521.ssf	3161	43159	L1	fixed	3756.490	5.7	2.621
00000517.ssf	3162	43169	L1	fixed	3916.167	19.4	2.686
00000513.ssf	3162	43176	L1	fixed	4513.916	22.0	2.131
00000509.ssf	3162	43177	L1	fixed	3923.217	13.7	1.482
00000561.ssf	3168	43178	L1	fixed	3462.844	10.5	1.399
00000505.ssf	3170	43181	L1	fixed	5455.498	7.2	2.131
00000557.ssf	3171	43168	L1	fixed	1810.672	16.5	1.596
00000553.ssf	3171	43178	L1	fixed	2176.255	6.3	2.164
00000529.ssf	3176	43169	L1	fixed	6925.933	12.2	4.332
00000525.ssf	3176	43177	L1	fixed	1200.806	20.7	2.439

00000533.ssf	3177	43169	L1	fixed	5826.402	14.6	2.128
00000489.ssf	3179	43170	L1	fixed	3156.593	14.0	1.491
00000493.ssf	3179	43178	L1	fixed	1476.102	8.2	1.513
00000481.ssf	3179	43180	L1	fixed	1341.193	32.5	0.983
00000485.ssf	3179	43181	L1	fixed	2506.365	12.3	1.537
00000501.ssf	3180	43170	L1	fixed	4323.300	15.6	0.957
00000497.ssf	3180	43181	L1	fixed	1171.544	17.6	0.814
00000377.ssf	NR18	1JB2	L1	fixed	7700.615	60.9	4.549
00000393.ssf	NR18	43129	L1	fixed	3350.146	13.1	2.994
00000405.ssf	NR18	43130	L1	fixed	2930.027	24.9	1.384
00000413.ssf	NR18	43148	L1	fixed	717.920	61.8	0.985
00000397.ssf	NR18	43153	L1	fixed	4807.734	13.5	2.609
00000381.ssf	NR18	43156	L1	fixed	4293.692	27.3	1.477
00000401.ssf	NR18	43158	L1	fixed	2563.785	42.9	0.666
00000389.ssf	NR18	43159	L1	fixed	3949.547	15.2	1.902
00000409.ssf	NR18	43160	L1	fixed	7274.175	12.8	5.606
00000385.ssf	NR18	43161	L1	fixed	6800.834	7.1	2.948
00000373.ssf	NR18	43162	L1	fixed	5973.066	12.1	4.512
00000353.ssf	NR18	43168	L1	fixed	5685.465	5.4	3.366
00000369.ssf	NR18	43169	L1	fixed	5118.748	16.7	3.684
00000341.ssf	NR18	43170	L1	fixed	8506.935	4.7	4.947
00000357.ssf	NR18	43171	L1	fixed	6931.136	20.5	2.522
00000365.ssf	NR18	43176	L1	fixed	10433.010	16.4	5.624
00000361.ssf	NR18	43177	L1	fixed	9653.342	19.2	3.970
00000349.ssf	NR18	43178	L1	fixed	9017.893	11.1	4.529
00000345.ssf	NR18	43179	L1	fixed	7919.255	12.9	5.036
00000333.ssf	NR18	43180	L1	fixed	7239.881	10.4	4.516
00000337.ssf	NR18	43181	L1	fixed	6969.233	7.6	3.828

***** End of Report *****

Project:	NEWRIVER
Supervisor:	HARBERS
Date Created:	4/6/2003 18:04
Date Last Accessed:	4/6/2003 18:04
Project Directory:	C:\GPSURVEY\projects\NEWRIVER
Antenna Type:	4600LS Internal
Antenna Measurement Method:	Reading from hook using 4600LS tape
Antenna Group:	GPSurvey
Receiver Type:	4600LS
Coordinate System:	Geographic
Zone:	WGS84
Linear Unit:	Meter
Timezone:	Mountain Std USA :--7:00
Number of Stations:	46
Number of Baselines:	139
No. of Continuous Kinematic Solns:	0

**** Adjusted Coordinates ****

Projection Group:	NAD-83 SP TM
Zone Name:	Arizona Central
Linear Units:	meter
Angular Units:	degrees
Datum Name:	NAD-83

Station	North	East	Ortho.	Ellip.

			Height	Height
1JB2	307033.36540	181973.55415	455.94830	426.37843
1LB2	315469.31688	182801.37238	532.90461	503.57189
1LC2	318384.52014	188492.49714	559.11600	529.99700
43101	320180.64421	183596.54760	743.41260	714.26053
43102	320234.80125	184410.39571	816.23990	787.10678
43103	320677.55568	185728.24768	676.86964	647.77652
43104	320644.26527	186888.02555	591.84126	562.77144
43108	317746.95707	185708.87207	534.46465	505.26404
43109	317702.54259	186866.44666	541.71031	512.53113
43110	317782.31231	188110.63744	548.32327	519.17382
43111	316489.92950	182089.96178	546.80008	517.49332
43112	316835.37840	184370.15590	533.95307	504.69672
43114	316202.26807	183162.63771	537.56745	508.26850
43118	315917.52724	187451.54647	526.52137	497.29226
43121	314993.59292	185711.23416	509.30018	480.00419
43125	314655.83192	184395.01911	516.23744	486.90493
43126	313618.98130	182289.29504	512.53172	483.13469
43127	313849.75639	183176.19220	514.08008	484.70255
43129	313620.96433	186876.41365	506.48529	477.17135
43130	313688.88604	188184.21671	513.23141	483.94816
43133	312403.05624	185038.59253	486.86288	457.47668
43136	312019.07792	182598.51856	495.76869	466.33340
43142	310295.09722	182272.28318	482.05304	452.56696
43143	310324.44815	183058.26654	481.57200	452.10045
43144	310335.67293	184271.51827	473.75094	444.30027
43146	310206.62136	185640.24254	472.82152	443.39264
43147	310239.78693	186871.08940	478.06875	448.66416
43148	310232.34508	188251.45566	482.96847	453.59122
43153	308625.31563	184401.62773	457.77787	428.29082
43156	307767.97060	185650.85552	455.52648	426.04292
43158	308289.82496	188182.05895	470.18437	440.76029
43159	307293.55401	186876.42885	470.80566	441.33396
43160	307019.03483	182475.85644	453.69266	424.13139
43161	306862.59871	183145.38754	450.54071	420.98937
43162	306706.49233	184341.44892	445.08801	415.55504
43168	305575.35416	186454.09305	458.23559	428.71604
43169	305715.48263	188129.30179	485.31222	455.82697
43170	304869.03480	182593.38537	441.41897	411.80961
43171	305136.38091	184697.86736	436.25805	406.69437
43176	303006.98376	181756.38150	428.05678	398.38520
43177	303036.46754	182956.60602	437.59372	407.94548
43178	303047.63147	184088.15517	435.54667	405.92037
43179	303568.46658	185469.06871	439.75750	410.17087
43180	303818.23045	186786.25358	469.37583	439.82140
43181	303873.27266	187956.31087	464.79445	435.26375
NR18	310802.90132	188686.95709	489.45300	460.09951

***** End of Report *****

Project:	NEWRIVER
Supervisor:	HARBERS
Date Created:	4/6/2003 18:04
Date Last Accessed:	4/6/2003 18:04
Project Directory:	C:\GPSURVEY\projects\NEWRIVER

Antenna Type:	4600LS Internal
Antenna Measurement Method:	Reading from hook using 4600LS tape
Antenna Group:	GPSurvey
Receiver Type:	4600LS
Coordinate System:	Geographic
Zone:	WGS84
Linear Unit:	Meter
Timezone:	Mountain Std USA :--7:00
Number of Stations:	46
Number of Baselines:	139
No. of Continuous Kinematic Solns:	

**** Reference Coordinates ****

Station	Latitude	Longitude	Height	Quality
43180	33°44'22.82385" N	112°12'12.47425" W	439.84818	Baseline Solutions
43178	33°43'57.55489" N	112°13'57.21067" W	405.94966	Baseline Solutions
43176	33°43'55.99427" N	112°15'27.79346" W	398.40815	Baseline Solutions
43160	33°46'06.29875" N	112°15'00.34623" W	424.14976	Baseline Solutions
43153	33°46'58.63315" N	112°13'45.68940" W	428.32345	Baseline Solutions
43171	33°45'05.41411" N	112°13'33.76721" W	406.72604	Baseline Solutions
43170	33°44'56.52354" N	112°14'55.50958" W	411.83471	Baseline Solutions
43162	33°45'56.34351" N	112°13'47.80235" W	415.58388	Baseline Solutions
43130	33°49'43.34010" N	112°11'19.17175" W	483.96748	Baseline Solutions
43129	33°49'41.02040" N	112°12'10.02842" W	477.20785	Baseline Solutions
43181	33°44'24.71363" N	112°11'27.01953" W	435.28734	Baseline Solutions
43169	33°45'24.52556" N	112°11'20.48754" W	455.84152	Baseline Solutions
43168	33°45'19.82870" N	112°12'25.57176" W	428.74761	Baseline Solutions
43159	33°46'15.63864" N	112°12'09.34438" W	441.37332	Baseline Solutions
43158	33°46'48.09152" N	112°11'18.70114" W	440.78783	Baseline Solutions
43156	33°46'30.92498" N	112°12'57.03244" W	426.07950	Baseline Solutions
43179	33°44'14.59485" N	112°13'03.62207" W	410.19968	Baseline Solutions
43177	33°43'57.07769" N	112°14'41.16934" W	407.96746	Baseline Solutions
43161	33°46'01.29070" N	112°14'34.30505" W	421.01838	Baseline Solutions
43148	33°47'51.14986" N	112°11'16.20243" W	453.62725	Baseline Solutions
NR18	33°48'09.70661" N	112°10'59.32811" W	460.13254	Baseline Solutions
1JB2	33°46'06.71011" N	112°15'19.87065" W	426.41049	Baseline Solutions
43146	33°47'50.07973" N	112°12'57.72033" W	443.40221	Baseline Solutions
43143	33°47'53.64947" N	112°14'38.11864" W	452.11098	Baseline Solutions
43114	33°51'04.44696" N	112°14'34.78569" W	508.28177	Baseline Solutions
43111	33°51'13.67175" N	112°15'16.55286" W	517.50910	Baseline Solutions
43108	33°51'54.83692" N	112°12'55.90389" W	505.25225	Baseline Solutions
43104	33°53'28.98817" N	112°12'10.33758" W	562.78518	Baseline Solutions
43103	33°53'29.96195" N	112°12'55.48186" W	647.78739	Baseline Solutions
43102	33°53'15.46318" N	112°13'46.72177" W	787.09556	Baseline Solutions
43101	33°53'13.62387" N	112°14'18.38960" W	714.26783	Baseline Solutions
43147	33°47'51.26986" N	112°12'09.87017" W	448.67472	Baseline Solutions
43133	33°49'01.31635" N	112°13'21.36561" W	457.48968	Baseline Solutions
43127	33°49'48.08869" N	112°14'33.96808" W	484.72174	Baseline Solutions
43126	33°49'40.50570" N	112°15'08.43333" W	483.12378	Baseline Solutions
43125	33°50'14.37620" N	112°13'46.65928" W	486.91987	Baseline Solutions
43121	33°50'25.46652" N	112°12'55.50046" W	480.01252	Baseline Solutions
43118	33°50'55.61513" N	112°11'47.90318" W	497.29615	Baseline Solutions
43110	33°51'56.20111" N	112°11'22.45591" W	519.18551	Baseline Solutions
43144	33°47'54.13628" N	112°13'50.94970" W	444.31052	Baseline Solutions
43142	33°47'52.61462" N	112°15'08.67316" W	452.57957	Baseline Solutions
43136	33°48'48.60767" N	112°14'56.20606" W	466.35163	Baseline Solutions
43112	33°51'25.11902" N	112°13'47.88420" W	504.70710	Baseline Solutions

43109	33°51'53.50213" N	112°12'10.85821" W	512.53303	Baseline Solutions
1LC2	33°52'15.78058" N	112°11'07.65914" W	530.00838	Baseline Solutions
1LB2	33°50'40.61910" N	112°14'48.74842" W	503.58600	Fixed Control

**** Adjusted Coordinates ****

Projection Group: Geographic
Zone Name: Global

Linear Units: meter
Angular Units: degrees
Datum Name: NAD-83

Station	Latitude	Longitude	Ortho. Height	Ellip. Height
1JB2	33°46'06.70965" N	112°15'19.87078" W	455.94698	426.37711
1LB2	33°50'40.61910" N	112°14'48.74842" W	532.90448	503.57176
1LC2	33°52'15.78072" N	112°11'07.65913" W	559.11600	529.99700
43101	33°53'13.62382" N	112°14'18.38979" W	743.41202	714.25996
43102	33°53'15.46326" N	112°13'46.72175" W	816.23911	787.10599
43103	33°53'29.96183" N	112°12'55.48152" W	676.86910	647.77597
43104	33°53'28.98838" N	112°12'10.33759" W	591.84089	562.77107
43108	33°51'54.83685" N	112°12'55.90390" W	534.46418	505.26357
43109	33°51'53.50216" N	112°12'10.85840" W	541.70993	512.53075
43110	33°51'56.20124" N	112°11'22.45591" W	548.32304	519.17359
43111	33°51'13.67171" N	112°15'16.55278" W	546.79987	517.49311
43112	33°51'25.11888" N	112°13'47.88453" W	533.95275	504.69640
43114	33°51'04.44705" N	112°14'34.78566" W	537.56747	508.26853
43118	33°50'55.61511" N	112°11'47.90338" W	526.52107	497.29196
43121	33°50'25.46639" N	112°12'55.50071" W	509.29986	480.00387
43125	33°50'14.37609" N	112°13'46.65915" W	516.23712	486.90461
43126	33°49'40.50574" N	112°15'08.43337" W	512.53120	483.13417
43127	33°49'48.08897" N	112°14'33.96819" W	514.07979	484.70226
43129	33°49'41.02003" N	112°12'10.02890" W	506.48475	477.17081
43130	33°49'43.33982" N	112°11'19.17185" W	513.23067	483.94742
43133	33°49'01.31645" N	112°13'21.36565" W	486.86265	457.47645
43136	33°48'48.60739" N	112°14'56.20600" W	495.76833	466.33304
43142	33°47'52.61459" N	112°15'08.67334" W	482.05263	452.56655
43143	33°47'53.64942" N	112°14'38.11879" W	481.57173	452.10018
43144	33°47'54.13639" N	112°13'50.95000" W	473.75055	444.29988
43146	33°47'50.07985" N	112°12'57.72050" W	472.82121	443.39233
43147	33°47'51.26995" N	112°12'09.87031" W	478.06857	448.66398
43148	33°47'51.14968" N	112°11'16.20255" W	482.96795	453.59071
43153	33°46'58.63278" N	112°13'45.68974" W	457.77749	428.29044
43156	33°46'30.92456" N	112°12'57.03268" W	455.52591	426.04234
43158	33°46'48.09121" N	112°11'18.70129" W	470.18390	440.75982
43159	33°46'15.63834" N	112°12'09.34495" W	470.80507	441.33337
43160	33°46'06.29844" N	112°15'00.34649" W	453.69206	424.13079
43161	33°46'01.29021" N	112°14'34.30557" W	450.54014	420.98880
43162	33°45'56.34304" N	112°13'47.80236" W	445.08678	415.55380
43168	33°45'19.82810" N	112°12'25.57174" W	458.23437	428.71482
43169	33°45'24.52502" N	112°11'20.48763" W	485.31090	455.82565
43170	33°44'56.52316" N	112°14'55.50963" W	441.41737	411.80802
43171	33°45'05.41352" N	112°13'33.76721" W	436.25693	406.69325
43176	33°43'55.99378" N	112°15'27.79364" W	428.05551	398.38394
43177	33°43'57.07722" N	112°14'41.16948" W	437.59258	407.94435
43178	33°43'57.55423" N	112°13'57.21078" W	435.54533	405.91904

43179	33°44'14.59426" N	112°13'03.62198" W	439.75613	410.16950
43180	33°44'22.82330" N	112°12'12.47407" W	469.37441	439.81999
43181	33°44'24.71323" N	112°11'27.01977" W	464.79293	435.26224
NR18	33°48'09.70630" N	112°10'59.32822" W	489.45267	460.09919

From	To	Solution Type	Slope	Ratio	Reference Variance	Ant.Ht. (From)	Ant.Ht. (From)
1JB2	43162	L1 fixed	2390.742	37.9	1.325	1.288	1.280
1JB2	43168	L1 fixed	4712.528	9.4	2.180	1.288	1.428
1JB2	43169	L1 fixed	6296.316	13.5	3.525	1.288	1.523
1JB2	43170	L1 fixed	2251.722	10.8	1.986	1.288	1.200
1JB2	43171	L1 fixed	3320.267	30.2	1.561	1.288	1.325
1JB2	43176	L1 fixed	4032.939	39.8	2.289	1.288	1.240
1JB2	43177	L1 fixed	4116.681	14.4	3.589	1.288	1.270
1JB2	43178	L1 fixed	4512.673	21.5	2.188	1.288	1.311
1JB2	43179	L1 fixed	4922.582	14.9	3.427	1.288	1.341
1JB2	43180	L1 fixed	5788.778	6.3	5.132	1.288	1.304
1JB2	43181	L1 fixed	6767.137	5.1	3.697	1.288	1.473
1LB2	1LC2	L1 fixed	6395.473	11.1	3.503	1.447	1.400
1LB2	43101	L1 fixed	4783.475	30.9	1.642	1.447	1.137
1LB2	43102	L1 fixed	5038.736	18.6	3.021	1.447	1.257
1LB2	43104	L1 fixed	6595.410	13.3	3.618	1.447	1.375
1LB2	43108	L1 fixed	3694.013	23.1	2.353	1.447	1.413
1LB2	43109	L1 fixed	4638.899	14.3	2.850	1.447	1.268
1LB2	43110	L1 fixed	5792.229	14.2	2.696	1.447	1.430
1LB2	43111	L1 fixed	1244.372	23.9	1.171	1.447	1.401
1LB2	43112	L1 fixed	2080.538	23.8	1.054	1.447	1.414
1LB2	43114	L1 fixed	817.294	81.6	0.991	1.447	1.407
1LB2	43118	L1 fixed	4672.510	17.3	2.259	1.447	1.397
1LB2	43121	L1 fixed	2949.077	10.8	2.527	1.447	1.433
1LB2	43125	L1 fixed	1789.642	20.1	1.195	1.447	1.453
1LB2	43126	L1 fixed	1920.311	38.8	1.070	1.447	1.463
1LB2	43127	L1 fixed	1662.751	41.0	1.332	1.447	1.480
1LB2	43129	L1 fixed	4475.444	8.1	3.944	1.511	1.276
1LB2	43130	L1 fixed	5670.632	17.6	1.780	1.511	1.284
1LB2	43133	L1 fixed	3796.573	44.0	1.274	1.447	1.445
1LB2	43136	L1 fixed	3456.971	35.5	1.157	1.447	1.402
1LB2	43142	L1 fixed	5202.305	31.8	1.928	1.447	1.337
1LB2	43143	L1 fixed	5152.384	26.3	1.774	1.447	1.354
1LB2	43144	L1 fixed	5341.208	23.0	2.449	1.447	1.299
1LB2	43146	L1 fixed	5980.847	21.2	4.011	1.447	1.237
1LB2	43147	L1 fixed	6627.831	27.6	3.723	1.447	1.434
1LB2	43148	L1 fixed	7559.801	27.0	2.401	1.511	1.302
1LB2	43153	L1 fixed	7030.141	27.5	5.466	1.511	1.315
1LB2	43156	L1 fixed	8213.305	14.2	3.464	1.511	1.437
1LB2	43158	L1 fixed	8973.695	11.7	2.810	1.511	1.501
1LB2	43159	L1 fixed	9136.770	3.8	9.007	1.511	1.505
1LB2	43160	L1 fixed	8458.286	21.9	3.156	1.511	1.330
1LB2	43161	L1 fixed	8615.386	7.3	3.708	1.511	1.310

1LB2	NR18	L1 fixed	7512.398	26.5	7.784	1.511	1.534
1LC2	43101	L1 fixed	5219.258	32.6	1.903	1.400	1.137
1LC2	43102	L1 fixed	4490.098	20.7	2.869	1.400	1.257
1LC2	43103	L1 fixed	3594.123	3.4	9.354	1.400	1.226
1LC2	43104	L1 fixed	2772.108	33.5	1.173	1.400	1.375
1LC2	43108	L1 fixed	2856.302	32.9	1.596	1.400	1.413
1LC2	43109	L1 fixed	1763.660	26.9	1.570	1.400	1.268
1LC2	43110	L1 fixed	713.276	38.6	1.053	1.400	1.430
1LC2	43111	L1 fixed	6678.135	9.8	2.440	1.400	1.401
1LC2	43112	L1 fixed	4404.630	11.8	2.296	1.400	1.414
1LC2	43118	L1 fixed	2678.272	23.4	1.708	1.400	1.397
1LC2	43121	L1 fixed	4386.659	14.6	1.871	1.400	1.433
1LC2	43125	L1 fixed	5541.186	6.6	2.516	1.400	1.453
1LC2	43126	L1 fixed	7823.884	15.7	4.030	1.400	1.463
1LC2	43127	L1 fixed	6988.983	31.6	1.725	1.400	1.480
1LC2	43133	L1 fixed	6908.597	24.4	2.096	1.400	1.445
1LC2	43136	L1 fixed	8676.825	20.8	1.832	1.400	1.402
1LC2	43142	L1 fixed	10206.407	13.6	5.455	1.400	1.337
1LC2	43143	L1 fixed	9722.831	13.4	4.046	1.400	1.354
1LC2	43144	L1 fixed	9090.417	19.9	2.798	1.400	1.299
1LC2	43146	L1 fixed	8662.913	26.8	3.293	1.400	1.237
1LC2	43147	L1 fixed	8306.355	28.3	3.682	1.400	1.434
43108	43102	L1 fixed	2820.967	23.9	1.592	1.413	1.257
43109	43102	L1 fixed	3539.025	14.0	2.742	1.268	1.257
43109	43108	L1 fixed	1158.647	15.3	1.609	1.268	1.413
43109	43126	L1 fixed	6135.092	6.1	1.851	1.268	1.463
43110	43104	L1 fixed	3113.017	20.0	1.173	1.430	1.375
43111	43103	L1 fixed	5549.906	3.6	2.599	1.401	1.226
43111	43125	L1 fixed	2946.361	15.7	1.512	1.401	1.453
43111	43136	L1 fixed	4500.718	9.4	1.274	1.401	1.402
43112	43121	L1 fixed	2278.819	7.2	2.121	1.414	1.433
43114	41LC2	L1 fixed	5760.340	33.5	1.770	1.407	1.400
43114	43104	L1 fixed	5798.668	25.4	1.752	1.407	1.375
43114	43110	L1 fixed	5195.055	18.1	1.148	1.407	1.430
43114	43112	L1 fixed	1363.659	21.4	1.200	1.407	1.414
43114	43121	L1 fixed	2821.293	17.1	1.250	1.407	1.433
43125	43103	L1 fixed	6170.755	3.2	1.885	1.453	1.226
43125	43136	L1 fixed	3191.180	7.1	1.468	1.453	1.402
43126	43102	L1 fixed	6955.491	5.8	3.571	1.463	1.257
43126	43108	L1 fixed	5361.326	15.2	2.369	1.463	1.413
43127	43136	L1 fixed	1920.059	14.3	0.579	1.480	1.402
43129	43159	L1 fixed	6328.553	4.7	2.988	1.276	1.505
43130	43160	L1 fixed	8780.705	4.8	5.021	1.284	1.330
43133	43101	L1 fixed	7915.751	30.5	1.644	1.445	1.137
43133	43142	L1 fixed	3478.483	36.3	1.480	1.445	1.337
43133	43143	L1 fixed	2871.404	28.7	1.730	1.445	1.354
43142	43101	L1 fixed	9979.087	18.4	2.531	1.337	1.137
43143	43101	L1 fixed	9876.152	19.4	2.334	1.354	1.137
43143	43142	L1 fixed	786.656	50.5	0.875	1.354	1.337
43146	43144	L1 fixed	1375.012	10.9	2.271	1.237	1.299
43147	43144	L1 fixed	2601.758	25.3	1.747	1.434	1.299
43147	43146	L1 fixed	1231.503	32.3	1.449	1.434	1.237
43148	43160	L1 fixed	6610.423	5.4	3.200	1.302	1.330
43153	43129	L1 fixed	5576.161	11.3	3.066	1.315	1.276
43153	43156	L1 fixed	1515.365	23.9	1.412	1.315	1.437
43153	43159	L1 fixed	2810.854	12.3	2.386	1.315	1.505
43153	43161	L1 fixed	2164.903	13.5	1.990	1.315	1.310

43158	43130	L1 fixed	5400.127	8.4	0.579	1.501	1.284
43161	43159	L1 fixed	3756.490	5.7	2.621	1.310	1.505
43162	43169	L1 fixed	3916.167	19.4	2.686	1.280	1.523
43162	43176	L1 fixed	4513.916	22.0	2.131	1.280	1.240
43162	43177	L1 fixed	3923.217	13.7	1.482	1.280	1.270
43168	43178	L1 fixed	3462.844	10.5	1.399	1.428	1.311
43170	43181	L1 fixed	5455.498	7.2	2.131	1.200	1.473
43171	43168	L1 fixed	1810.672	16.5	1.596	1.325	1.428
43171	43178	L1 fixed	2176.255	6.3	2.164	1.325	1.311
43176	43169	L1 fixed	6925.933	12.2	4.332	1.240	1.523
43176	43177	L1 fixed	1200.806	20.7	2.439	1.240	1.270
43177	43169	L1 fixed	5826.402	14.6	2.128	1.270	1.523
43179	43170	L1 fixed	3156.593	14.0	1.491	1.341	1.200
43179	43178	L1 fixed	1476.102	8.2	1.513	1.341	1.311
43179	43180	L1 fixed	1341.193	32.5	0.983	1.341	1.304
43179	43181	L1 fixed	2506.365	12.3	1.537	1.341	1.473
43180	43170	L1 fixed	4323.300	15.6	0.957	1.304	1.200
43180	43181	L1 fixed	1171.544	17.6	0.814	1.304	1.473
NR18	1JB2	L1 fixed	7700.615	60.9	4.549	1.534	1.288
NR18	43129	L1 fixed	3350.146	13.1	2.994	1.534	1.276
NR18	43130	L1 fixed	2930.027	24.9	1.384	1.534	1.284
NR18	43148	L1 fixed	717.920	61.8	0.985	1.534	1.302
NR18	43153	L1 fixed	4807.734	13.5	2.609	1.534	1.315
NR18	43156	L1 fixed	4293.692	27.3	1.477	1.534	1.437
NR18	43158	L1 fixed	2563.785	42.9	0.666	1.534	1.501
NR18	43159	L1 fixed	3949.547	15.2	1.902	1.534	1.505
NR18	43160	L1 fixed	7274.175	12.8	5.606	1.534	1.330
NR18	43161	L1 fixed	6800.834	7.1	2.948	1.534	1.310
NR18	43162	L1 fixed	5973.066	12.1	4.512	1.534	1.280
NR18	43168	L1 fixed	5685.465	5.4	3.366	1.534	1.428
NR18	43169	L1 fixed	5118.748	16.7	3.684	1.534	1.523
NR18	43170	L1 fixed	8506.935	4.7	4.947	1.534	1.200
NR18	43171	L1 fixed	6931.136	20.5	2.522	1.534	1.325
NR18	43176	L1 fixed	10433.010	16.4	5.624	1.534	1.240
NR18	43177	L1 fixed	9653.342	19.2	3.970	1.534	1.270
NR18	43178	L1 fixed	9017.893	11.1	4.529	1.534	1.311
NR18	43179	L1 fixed	7919.255	12.9	5.036	1.534	1.341
NR18	43180	L1 fixed	7239.881	10.4	4.516	1.534	1.304
NR18	43181	L1 fixed	6969.233	7.6	3.828	1.534	1.473

**** SSF/SSK Solution Output Files For Selected Baselines ****

output file	From Station	To Station	Solution Type	Slope	Ratio	Reference Variance
00000461.ssf	1JB2	43162	L1 fixed	2390.742	37.9	1.325
00000441.ssf	1JB2	43168	L1 fixed	4712.528	9.4	2.180
00000457.ssf	1JB2	43169	L1 fixed	6296.316	13.5	3.525
00000429.ssf	1JB2	43170	L1 fixed	2251.722	10.8	1.986
00000445.ssf	1JB2	43171	L1 fixed	3320.267	30.2	1.561
00000453.ssf	1JB2	43176	L1 fixed	4032.939	39.8	2.289
00000449.ssf	1JB2	43177	L1 fixed	4116.681	14.4	3.589
00000437.ssf	1JB2	43178	L1 fixed	4512.673	21.5	2.188
00000433.ssf	1JB2	43179	L1 fixed	4922.582	14.9	3.427
00000421.ssf	1JB2	43180	L1 fixed	5788.778	6.3	5.132
00000425.ssf	1JB2	43181	L1 fixed	6767.137	5.1	3.697
00000093.ssf	1LB2	1LC2	L1 fixed	6395.473	11.1	3.503

00000021.ssf	1LB2	43101	L1 fixed	4783.475	30.9	1.642
00000041.ssf	1LB2	43102	L1 fixed	5038.736	18.6	3.021
00000069.ssf	1LB2	43103	L1 fixed	5977.122	5.0	2.526
00000085.ssf	1LB2	43104	L1 fixed	6595.410	13.3	3.618
00000049.ssf	1LB2	43108	L1 fixed	3694.013	23.1	2.353
00000037.ssf	1LB2	43109	L1 fixed	4638.899	14.3	2.850
00000089.ssf	1LB2	43110	L1 fixed	5792.229	14.2	2.696
00000061.ssf	1LB2	43111	L1 fixed	1244.372	23.9	1.171
00000077.ssf	1LB2	43112	L1 fixed	2080.538	23.8	1.054
00000081.ssf	1LB2	43114	L1 fixed	817.294	81.6	0.991
00000033.ssf	1LB2	43118	L1 fixed	4672.510	17.3	2.259
00000073.ssf	1LB2	43121	L1 fixed	2949.077	10.8	2.527
00000065.ssf	1LB2	43125	L1 fixed	1789.642	20.1	1.195
00000045.ssf	1LB2	43126	L1 fixed	1920.311	38.8	1.070
00000053.ssf	1LB2	43127	L1 fixed	1662.751	41.0	1.332
00000305.ssf	1LB2	43129	L1 fixed	4475.444	8.1	3.944
00000317.ssf	1LB2	43130	L1 fixed	5670.632	17.6	1.780
00000025.ssf	1LB2	43133	L1 fixed	3796.573	44.0	1.274
00000057.ssf	1LB2	43136	L1 fixed	3456.971	35.5	1.157
00000029.ssf	1LB2	43142	L1 fixed	5202.305	31.8	1.928
00000017.ssf	1LB2	43143	L1 fixed	5152.384	26.3	1.774
00000013.ssf	1LB2	43144	L1 fixed	5341.208	23.0	2.449
00000005.ssf	1LB2	43146	L1 fixed	5980.847	21.2	4.011
00000009.ssf	1LB2	43147	L1 fixed	6627.831	27.6	3.723
00000329.ssf	1LB2	43148	L1 fixed	7559.801	27.0	2.401
00000309.ssf	1LB2	43153	L1 fixed	7030.141	27.5	5.466
00000293.ssf	1LB2	43156	L1 fixed	8213.305	14.2	3.464
00000313.ssf	1LB2	43158	L1 fixed	8973.695	11.7	2.810
00000301.ssf	1LB2	43159	L1 fixed	9136.770	3.8	9.007
00000321.ssf	1LB2	43160	L1 fixed	8458.286	21.9	3.156
00000297.ssf	1LB2	43161	L1 fixed	8615.386	7.3	3.708
00000325.ssf	1LB2	NR18	L1 fixed	7512.398	26.5	7.784
00000133.ssf	1LC2	43101	L1 fixed	5219.258	32.6	1.903
00000153.ssf	1LC2	43102	L1 fixed	4490.098	20.7	2.869
00000181.ssf	1LC2	43103	L1 fixed	3594.123	3.4	9.354
00000193.ssf	1LC2	43104	L1 fixed	2772.108	33.5	1.173
00000161.ssf	1LC2	43108	L1 fixed	2856.302	32.9	1.596
00000149.ssf	1LC2	43109	L1 fixed	1763.660	26.9	1.570
00000197.ssf	1LC2	43110	L1 fixed	713.276	38.6	1.053
00000173.ssf	1LC2	43111	L1 fixed	6678.135	9.8	2.440
00000189.ssf	1LC2	43112	L1 fixed	4404.630	11.8	2.296
00000145.ssf	1LC2	43118	L1 fixed	2678.272	23.4	1.708
00000185.ssf	1LC2	43121	L1 fixed	4386.659	14.6	1.871
00000177.ssf	1LC2	43125	L1 fixed	5541.186	6.6	2.516
00000157.ssf	1LC2	43126	L1 fixed	7823.884	15.7	4.030
00000165.ssf	1LC2	43127	L1 fixed	6988.983	31.6	1.725
00000137.ssf	1LC2	43133	L1 fixed	6908.597	24.4	2.096
00000169.ssf	1LC2	43136	L1 fixed	8676.825	20.8	1.832
00000141.ssf	1LC2	43142	L1 fixed	10206.407	13.6	5.455
00000129.ssf	1LC2	43143	L1 fixed	9722.831	13.4	4.046
00000125.ssf	1LC2	43144	L1 fixed	9090.417	19.9	2.798
00000117.ssf	1LC2	43146	L1 fixed	8662.913	26.8	3.293
00000121.ssf	1LC2	43147	L1 fixed	8306.355	28.3	3.682
00000253.ssf	43108	43102	L1 fixed	2820.967	23.9	1.592
00000221.ssf	43109	43102	L1 fixed	3539.025	14.0	2.742
00000229.ssf	43109	43108	L1 fixed	1158.647	15.3	1.609
00000225.ssf	43109	43126	L1 fixed	6135.092	6.1	1.851

00000201.ssf	43110	43104	L1	fixed	3113.017	20.0	1.173
00000213.ssf	43111	43103	L1	fixed	5549.906	3.6	2.599
00000209.ssf	43111	43125	L1	fixed	2946.361	15.7	1.512
00000205.ssf	43111	43136	L1	fixed	4500.718	9.4	1.274
00000217.ssf	43112	43121	L1	fixed	2278.819	7.2	2.121
00000113.ssf	43114	1LC2	L1	fixed	5760.340	33.5	1.770
00000105.ssf	43114	43104	L1	fixed	5798.668	25.4	1.752
00000109.ssf	43114	43110	L1	fixed	5195.055	18.1	1.148
00000101.ssf	43114	43112	L1	fixed	1363.659	21.4	1.200
00000097.ssf	43114	43121	L1	fixed	2821.293	17.1	1.250
00000241.ssf	43125	43103	L1	fixed	6170.755	3.2	1.885
00000237.ssf	43125	43136	L1	fixed	3191.180	7.1	1.468
00000245.ssf	43126	43102	L1	fixed	6955.491	5.8	3.571
00000249.ssf	43126	43108	L1	fixed	5361.326	15.2	2.369
00000233.ssf	43127	43136	L1	fixed	1920.059	14.3	0.579
00000537.ssf	43129	43159	L1	fixed	6328.553	4.7	2.988
00000549.ssf	43130	43160	L1	fixed	8780.705	4.8	5.021
00000261.ssf	43133	43101	L1	fixed	7915.751	30.5	1.644
00000265.ssf	43133	43142	L1	fixed	3478.483	36.3	1.480
00000257.ssf	43133	43143	L1	fixed	2871.404	28.7	1.730
00000277.ssf	43142	43101	L1	fixed	9979.087	18.4	2.531
00000269.ssf	43143	43101	L1	fixed	9876.152	19.4	2.334
00000273.ssf	43143	43142	L1	fixed	786.656	50.5	0.875
00000289.ssf	43146	43144	L1	fixed	1375.012	10.9	2.271
00000285.ssf	43147	43144	L1	fixed	2601.758	25.3	1.747
00000281.ssf	43147	43146	L1	fixed	1231.503	32.3	1.449
00000417.ssf	43148	43160	L1	fixed	6610.423	5.4	3.200
00000477.ssf	43153	43129	L1	fixed	5576.161	11.3	3.066
00000465.ssf	43153	43156	L1	fixed	1515.365	23.9	1.412
00000473.ssf	43153	43159	L1	fixed	2810.854	12.3	2.386
00000469.ssf	43153	43161	L1	fixed	2164.903	13.5	1.990
00000541.ssf	43158	43130	L1	fixed	5400.127	8.4	0.579
00000521.ssf	43161	43159	L1	fixed	3756.490	5.7	2.621
00000517.ssf	43162	43169	L1	fixed	3916.167	19.4	2.686
00000513.ssf	43162	43176	L1	fixed	4513.916	22.0	2.131
00000509.ssf	43162	43177	L1	fixed	3923.217	13.7	1.482
00000561.ssf	43168	43178	L1	fixed	3462.844	10.5	1.399
00000505.ssf	43170	43181	L1	fixed	5455.498	7.2	2.131
00000557.ssf	43171	43168	L1	fixed	1810.672	16.5	1.596
00000553.ssf	43171	43178	L1	fixed	2176.255	6.3	2.164
00000529.ssf	43176	43169	L1	fixed	6925.933	12.2	4.332
00000525.ssf	43176	43177	L1	fixed	1200.806	20.7	2.439
00000533.ssf	43177	43169	L1	fixed	5826.402	14.6	2.128
00000489.ssf	43179	43170	L1	fixed	3156.593	14.0	1.491
00000493.ssf	43179	43178	L1	fixed	1476.102	8.2	1.513
00000481.ssf	43179	43180	L1	fixed	1341.193	32.5	0.983
00000485.ssf	43179	43181	L1	fixed	2506.365	12.3	1.537
00000501.ssf	43180	43170	L1	fixed	4323.300	15.6	0.957
00000497.ssf	43180	43181	L1	fixed	1171.544	17.6	0.814
00000377.ssf	NR18	41JB2	L1	fixed	7700.615	60.9	4.549
00000393.ssf	NR18	43129	L1	fixed	3350.146	13.1	2.994
00000405.ssf	NR18	43130	L1	fixed	2930.027	24.9	1.384
00000413.ssf	NR18	43148	L1	fixed	717.920	61.8	0.985
00000397.ssf	NR18	43153	L1	fixed	4807.734	13.5	2.609
00000381.ssf	NR18	43156	L1	fixed	4293.692	27.3	1.477
00000401.ssf	NR18	43158	L1	fixed	2563.785	42.9	0.666
00000389.ssf	NR18	43159	L1	fixed	3949.547	15.2	1.902

00000409.ssf	NR18	43160	L1	fixed	7274.175	12.8	5.606
00000385.ssf	NR18	43161	L1	fixed	6800.834	7.1	2.948
00000373.ssf	NR18	43162	L1	fixed	5973.066	12.1	4.512
00000353.ssf	NR18	43168	L1	fixed	5685.465	5.4	3.366
00000369.ssf	NR18	43169	L1	fixed	5118.748	16.7	3.684
00000341.ssf	NR18	43170	L1	fixed	8506.935	4.7	4.947
00000357.ssf	NR18	43171	L1	fixed	6931.136	20.5	2.522
00000365.ssf	NR18	43176	L1	fixed	10433.010	16.4	5.624
00000361.ssf	NR18	43177	L1	fixed	9653.342	19.2	3.970
00000349.ssf	NR18	43178	L1	fixed	9017.893	11.1	4.529
00000345.ssf	NR18	43179	L1	fixed	7919.255	12.9	5.036
00000333.ssf	NR18	43180	L1	fixed	7239.881	10.4	4.516
00000337.ssf	NR18	43181	L1	fixed	6969.233	7.6	3.828

***** End of Report *****

Project:	NEWRIVER
Supervisor:	HARBERS
Date Created:	4/6/2003 18:04
Date Last Accessed:	4/6/2003 18:04
Project Directory:	C:\GPSURVEY\projects\NEWRIVER
Antenna Type:	4600LS Internal
Antenna Measurement Method:	Reading from hook using 4600LS tape
Antenna Group:	GPSurvey
Receiver Type:	4600LS
Coordinate System:	Geographic
Zone:	WGS84
Linear Unit:	Meter
Timezone:	Mountain Std USA :--7:00
Number of Stations:	46
Number of Baselines:	139
No. of Continuous Kinematic Solns:	0

**** Adjusted Coordinates ****

Projection Group:	NAD-83 SP TM
Zone Name:	Arizona Central
Linear Units:	meter
Angular Units:	degrees
Datum Name:	NAD-83

Station	North	East	Ortho. Height	Ellip. Height
1JB2	307033.36540	181973.55415	455.94830	426.37843
1LB2	315469.31688	182801.37238	532.90461	503.57189
1LC2	318384.52014	188492.49714	559.11600	529.99700
43101	320180.64421	183596.54760	743.41260	714.26053
43102	320234.80125	184410.39571	816.23990	787.10678
43103	320677.55568	185728.24768	676.86964	647.77652
43104	320644.26527	186888.02555	591.84126	562.77144
43108	317746.95707	185708.87207	534.46465	505.26404
43109	317702.54259	186866.44666	541.71031	512.53113
43110	317782.31231	188110.63744	548.32327	519.17382
43111	316489.92950	182089.96178	546.80008	517.49332

43112	316835.37840	184370.15590	533.95307	504.69672
43114	316202.26807	183162.63771	537.56745	508.26850
43118	315917.52724	187451.54647	526.52137	497.29226
43121	314993.59292	185711.23416	509.30018	480.00419
43125	314655.83192	184395.01911	516.23744	486.90493
43126	313618.98130	182289.29504	512.53172	483.13469
43127	313849.75639	183176.19220	514.08008	484.70255
43129	313620.96433	186876.41365	506.48529	477.17135
43130	313688.88604	188184.21671	513.23141	483.94816
43133	312403.05624	185038.59253	486.86288	457.47668
43136	312019.07792	182598.51856	495.76869	466.33340
43142	310295.09722	182272.28318	482.05304	452.56696
43143	310324.44815	183058.26654	481.57200	452.10045
43144	310335.67293	184271.51827	473.75094	444.30027
43146	310206.62136	185640.24254	472.82152	443.39264
43147	310239.78693	186871.08940	478.06875	448.66416
43148	310232.34508	188251.45566	482.96847	453.59122
43153	308625.31563	184401.62773	457.77787	428.29082
43156	307767.97060	185650.85552	455.52648	426.04292
43158	308289.82496	188182.05895	470.18437	440.76029
43159	307293.55401	186876.42885	470.80566	441.33396
43160	307019.03483	182475.85644	453.69266	424.13139
43161	306862.59871	183145.38754	450.54071	420.98937
43162	306706.49233	184341.44892	445.08801	415.55504
43168	305575.35416	186454.09305	458.23559	428.71604
43169	305715.48263	188129.30179	485.31222	455.82697
43170	304869.03480	182593.38537	441.41897	411.80961
43171	305136.38091	184697.86736	436.25805	406.69437
43176	303006.98376	181756.38150	428.05678	398.38520
43177	303036.46754	182956.60602	437.59372	407.94548
43178	303047.63147	184088.15517	435.54667	405.92037
43179	303568.46658	185469.06871	439.75750	410.17087
43180	303818.23045	186786.25358	469.37583	439.82140
43181	303873.27266	187956.31087	464.79445	435.26375
NR18	310802.90132	188686.95709	489.45300	460.09951

***** End of Report *****

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	1 L B 2 - 0 9 6 - 1 Station · Julian Date Session		
Observer	HARBERS	Receiver Type 4000 ST 4000 SE (7)	
Time Start	8:19 Am		
Stop	5:27 pm		
Antenna height	Beginning	1.447 m	
	End	1.447 m	

Remarks:
GDAGS 1LB2
mon. Down 0.4'

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 7 8 - 0 9 6 - 4 Station · Julian Date Session		
Observer	HARBERS	Receiver Type 4000 ST 4000 SE (82)	
Time Start	3:46pm		
Stop	4:35pm		
Antenna height	Beginning	1.311m	
	End	1.312m	

Remarks: 1½" COPPER CAP STAMPED
"USCELA DIST"
mon. up 0.15'

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER 23017

File Name	1 L C 2 - 0 9 6 - 1 Station · Julian Date Session		
Observer	SCHURIAN	Receiver Type 4000 ST 4000 SE (2)	
Time Start	8:20 Am		
Stop	5:14 pm		
Antenna height	Beginning	1.400 m	
	End	1.400m	

Remarks: EDACS 1LC2

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER 23017

File Name	3 1 0 9 - 0 9 6 - 3 Station - Julian Date Session		
Observer	HARBERS	Receiver Type 4000 ST 4000 SE (4)	
Time Start	12:50 pm		
Stop	1:40 pm		
Antenna height	Beginning	1.268m	
	End	1.267m	

Remarks: Mod. up 0.3'

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 1 2 - 0 9 6 - 1 Station Julian Date Session		
Observer	HARBERS	Receiver Type 4000 ST 4000 SE (4)	
Time Start	9:20 AM		
Stop	10:00 AM		
Antenna height	Beginning	1.414 m	
	End	1.4135 m	

Remarks:
MON. up 0.1'

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	0 1 3 6 - 0 9 6 - 2 Station Julian Date Session		
Observer	HARBERS	Receiver Type 4000 ST 4000 SE (4)	
Time Start	11:00 AM		
Stop	11:45 AM		
Antenna height	Beginning	1.402 m	
	End	1.402 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	0 1 4 2 - 0 9 6 - 4 Station Julian Date Session		
Observer	HARBERS	Receiver Type 4000 ST 4000 SE (4)	
Time Start	2:30 pm		
Stop	3:20 pm		
Antenna height	Beginning	1.337	
	End	1.337	

Remarks:
mon. up 0.2'

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 4 4 - 0 9 6 - 5 Station Julian Date Session		
Observer	HARBERS	Receiver Type 4000 ST 4000 SE (4)	
Time Start	3:53 pm		
Stop	4:40 pm		
Antenna height	Beginning	1.299 m	
	End	1.298 m	

Remarks:
mod. up 0.2'

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 1 0 - 0 9 6 - 1 Station Julian Date Session		
Observer	SCHURIAN	Receiver Type 4000 ST 4000 SE (9)	
Time Start	8:40 Am		
Stop	9:20 Am		
Antenna height	Beginning	1.430m	
	End	1.430m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 1 8 - 0 9 6 - 6 Station - Julian Date Session		
Observer	SCHURIAN	Receiver Type 4000 ST 4000 SE (9)	
Time Start	1:45 pm		
Stop	2:27 pm		
Antenna height	Beginning	1.397 m	
	End	1.398 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 2 1 - 0 9 6 - 2 Station Julian Date Session		
Observer	SCHURIAN	Receiver Type 4000 ST 4000 SE (9)	
Time Start	9:36 AM		
Stop	10:17 AM		
Antenna height	Beginning	1.433m	
	End	1.433m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 2 5 - 0 9 6 - 3 Station · Julian Date Session		
Observer	SCHURIAN	Receiver Type 4000 ST 4000 SE (9)	
Time Start	10:34 AM		
Stop	11:14 AM		
Antenna height	Beginning	1.453	
	End	1.453	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 2 6 - 0 9 6 - 5 Station · Julian Date Session		
Observer	SCHURIAN	Receiver Type 4000 ST 4000 SE (9)	
Time Start	12:28 pm		
Stop	13:10 pm		
Antenna height	Beginning	1.463	
	End	1.466	

Remarks:
mov. up 0.25'

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 2 7 - 0 9 6 - 4 Station · Julian Date Session		
Observer	SCHURIAN	Receiver Type 4000 ST 4000 SE (9)	
Time Start	11:28 AM		
Stop	12:10 pm		
Antenna height	Beginning	1.480	
	End	1.480	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER 23017

File Name	3 1 3 3 - 0 9 6 - 7 Station Julian Date Session		
Observer	SCHIRIAN	Receiver Type 4000 ST 4000 SE (9)	
Time Start	2:49 pm		
Stop	3:29 pm		
Antenna height	Beginning	1.445 m	
	End	1.445 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 4 7 - 0 9 6 - 8 Station Julian Date Session		
Observer	SCHURIAN	Receiver Type ~~4000~~ ST ~~4000~~ SE (9)	
Time Start	4:00 pm		
Stop	5:00 pm		
Antenna height	Beginning	1.434m	
	End	1.435m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: Upper New River
23017

File Name	3 1 0 4 - 0 9 6 - 1 Station · Julian Date Session		
Observer	Acken	Receiver Type ~~4000 ST~~ ~~4000 SE~~ (81)	
Time Start	8:48 Am		
Stop	9:30 Am		
Antenna height	Beginning	1.375 m	
	End	1.375 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 0 1 - 0 9 6 - 4 Station · Julian Date Session		
Observer	ACKEN	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 81	
Time Start	2:49 pm		
Stop	3:28 pm		
Antenna height	Beginning	1.064	
	End	1.065	

Remarks: mod. up 0.25

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 0 2 - 0 9 6 - 3 Station Julian Date Session		
Observer	ACKEd	Receiver Type ~~4000 ST~~ ~~4000 SE~~ (81)	
Time Start	12:43		
Stop	1:24		
Antenna height	Beginning	1.257m	
	End	1.257m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 0 3 - 0 9 6 - 2 Station Julian Date Session		
Observer	ACKEN	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 81	
Time Start	10:26 AM		
Stop	11:07 AM		
Antenna height	Beginning	1.226m	
	End	1.226m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER 23017

File Name	3 1 4 6 - 0 9 6 - 5 Station Julian Date Session		
Observer	HARBERS	Receiver Type	~~4000 ST~~ ~~4000 SE~~ 82
Time Start	4:10 pm		
Stop	5:00 pm		
Antenna height	Beginning	1.237m	
	End	1.237m	

Remarks: mon. up 0.2'

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 0 8 - 0 9 6 - 3 Station · Julian Date Session		
Observer	HARBERS	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 82	
Time Start	12:22 pm		
Stop	1:15 pm		
Antenna height	Beginning	1.413m	
	End	1.413m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 1 1 - 0 9 6 - 2 Station Julian Date Session		
Observer	HARBERS	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 82	
Time Start	10:32 AM		
Stop	11:15 AM		
Antenna height	Beginning	1.401 m	
	End	1.401 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 1 4 - 0 9 6 - 1 Station Julian Date Session		
Observer	HARBERS	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 82	
Time Start	8:45 AM		
Stop	10:11 AM		
Antenna height	Beginning	1.407m	
	End	1.404m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 4 3 - 0 9 6 - 4 Station Julian Date Session		
Observer	HARBERS	Receiver Type 4~~000 ST~~ ~~4000 SE~~ 82	
Time Start	2:40 pm		
Stop	3:25 pm		
Antenna height	Beginning	1.354 m	
	End	1.354 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER

File Name	1 L B 2 - 0 9 7 - 1 Station Julian Date Session		
Observer	SCHURIAN	Receiver Type ~~4000 ST~~ ~~4000 SE~~ (2)	
Time Start	7:27 AM		
Stop	5:50 PM		
Antenna height	Beginning	1.511	
	End	1.510	

Remarks:
GDAC 1LB2
MON. DOWN 0.4'

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	1 U B 2 - 0 9 7 - 2 Station Julian Date Session		
Observer	HARBERS	Receiver Type ~~4000 ST~~ ~~4000 SE~~ (2)	
Time Start	2:00pm		
Stop	6:50pm		
Antenna height	Beginning	1.289 m	
	End	1.288m.	

Remarks:
GDACS 1JB2

TOP OF LID ABOVE GROUND 0.48'

MON 0.2' DOWN FROM TOP OF LID

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	N R 1 8 - 0 9 7 - 1 Station Julian Date Session		
Observer	SCHURIAN	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 7	
Time Start	~~[illegible]~~ 7:47 AM		
Stop	6:15 pm		
Antenna height	Beginning	1.534 m	
	End	1.533 m	

Remarks:
GDAC NR18

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 4 8 - 0 9 7 - 1 Station Julian Date Session		
Observer	HARBERS	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 4	
Time Start	7:46 AM		
Stop	8:49 AM		
Antenna height	Beginning	1.302m	
	End	1.301m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 6 1 - 0 9 7 - 2 Station · Julian Date Session		
Observer	HARBERS	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 4	
Time Start	10:25 Am		
Stop	11:15 Am		
Antenna height	Beginning	1.31m	
	End	1.31m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 7 7 - 0 9 7 - 3 Station Julian Date Session		
Observer	HARBERS	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 4	
Time Start	2:45 pm		
Stop	3:25 pm		
Antenna height	Beginning	1.27m	
	End	1.271 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 7 9 - 0 9 7 - 4 Station Julian Date Session		
Observer	HARBERS	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 4	
Time Start	4:18 pm		
Stop	6:10 pm		
Antenna height	Beginning	1.341 m	
	End	1.341 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER 23017

File Name	3 1 5 6 - 0 9 6 - 3 Station · Julian Date Session		
Observer	SCHURIAN	Receiver Type ~~4000 ST~~ ~~4000 SE~~ (9)	
Time Start	11:15 AM		
Stop	12:04 PM		
Antenna height	Beginning	1.437 m	
	End	1.437 m	

Remarks:
MON up 0.1'

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 5 8 - 0 9 7 - 1 Station Julian Date Session		
Observer	SCHURIAN	Receiver Type ~~4000 ST~~ ~~4000 SE~~ (9)	
Time Start	9:06 AM		
Stop	9:48 AM		
Antenna height	Beginning	1.501m	
	End	1.501m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 5 9 - 0 9 7 - 2 Station Julian Date Session		
Observer	SCHURIAN	Receiver Type ~~4000 ST~~ ~~4000 SE~~ (9)	
Time Start	10:11 AM		
Stop	10:55 AM		
Antenna height	Beginning	1.505 m	
	End	1.505 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 6 8 - 0 9 7 - 6 Station · Julian Date Session		
Observer	SCHURIAN	Receiver Type ~~4000 ST~~ ~~4000 SE~~ (9)	
Time Start	3:42 pm		
Stop	4:25 pm		
Antenna height	Beginning	1.428 m	
	End	1.427 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 6 9 - 0 9 7 - 4 Station Julian Date Session		
Observer	SCHURIAN	Receiver Type ~~4000 ST~~ ~~4000 SE~~ (9)	
Time Start	2:19 pm		
Stop	3:04 pm		
Antenna height	Beginning	1.523m	
	End	1.523m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 8 1 - 0 9 7 - 7 Station Julian Date Session		
Observer	SCHURIAN	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 9	
Time Start	4:46 pm		
Stop	5:26 pm		
Antenna height	Beginning	1.473	
	End	1.474	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 2 9 - 0 9 7 - 2 Station Julian Date Session		
Observer	ACKERL	Receiver Type ~~4000 ST~~ ~~4000 SE~~ (81)	
Time Start	9:45 AM		
Stop	10:37 AM		
Antenna height	Beginning	1.276m	
	End	1.276 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 3 0 - 0 9 7 - 1 Station · Julian Date Session		
Observer	ACKEN	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 81	
Time Start	8:42 Am		
Stop	9:23 Am		
Antenna height	Beginning	1.284 m	
	End	1.284 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 6 2 - 0 9 7 - 3 Station - Julian Date Session		
Observer	ACKEN	Receiver Type ~~4000 ST~~ ~~4000 SE~~ (81)	
Time Start	2:15 pm		
Stop	3:01 pm		
Antenna height	Beginning	1.28m	
	End	1.28m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 7 0 - 0 9 7 - 5 Station Julian Date Session		
Observer	ACKEN	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 81	
Time Start	4:40pm		
Stop	5:26 pm		
Antenna height	Beginning	1.20m	
	End	1.20 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 7 1 - 0 9 7 - 4 Station · Julian Date Session		
Observer	ACKEN	Receiver Type ~~4000 ST~~ ~~4000 SE~~ (81)	
Time Start	3:22 pm		
Stop	4:03 pm		
Antenna height	Beginning	1.325 m	
	End	1.325 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 8 0 - 0 9 7 - 5 Station Julian Date Session		
Observer	HARBERS	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 82	
Time Start	5:13 pm		
Stop	5:54 pm		
Antenna height	Beginning	1.304 m	
	End	1.304 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 5 3 - 0 9 7 - 2 Station Julian Date Session		
Observer	HARBERS	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 82	
Time Start	9:40 Am		
Stop	11:50 Am		
Antenna height	Beginning	1.315 m	
	End	1.315 m	

Remarks:

Mark Rubbing:

LOG SHEET

Project Name: UPPER NEW RIVER
23017

File Name	3 1 6 0 - 0 9 7 - 1 Station Julian Date Session		
Observer	HARBERS	Receiver Type ~~4000 ST~~ ~~4000 SE~~ (82)	
Time Start	8:16 Am		
Stop	9:17 Am		
Antenna height	Beginning	1.330 m	
	End	1.330 m	

Remarks:

Mark Rubbing:

LOG SHEET

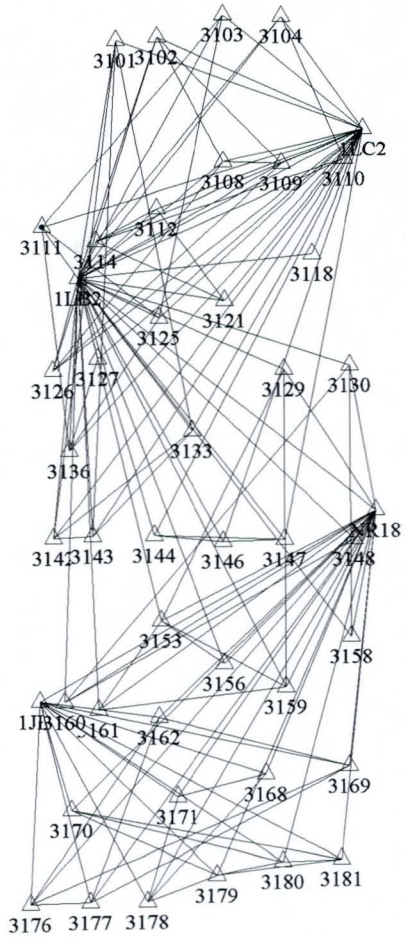
Project Name: UPPER NEW RIVER
23017

File Name	3 1 7 6 - 0 9 7 - 3 Station Julian Date Session		
Observer	HARBERS	Receiver Type ~~4000 ST~~ ~~4000 SE~~ 82	
Time Start	2:25 pm		
Stop	3:30 pm		
Antenna height	Beginning	1.24 m	
	End	1.238 m	

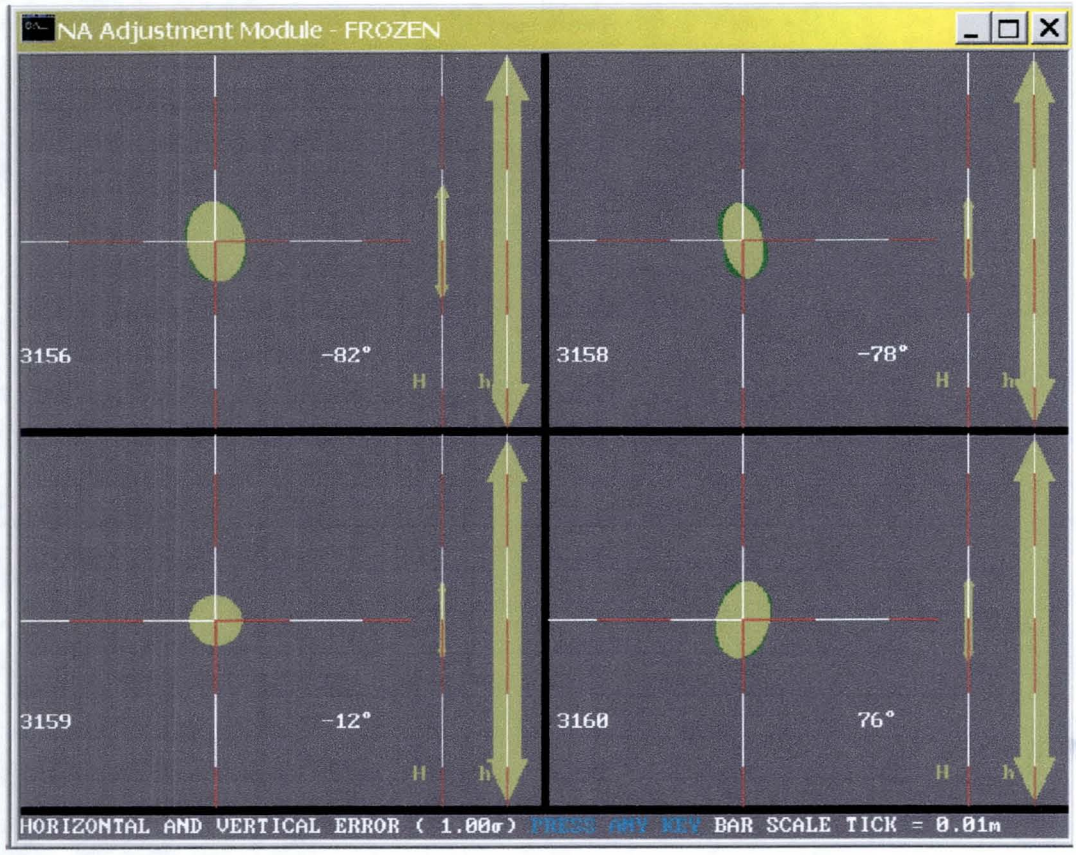
Remarks:
mon. up 0.45

Mark Rubbing:

Network Map: NEWRIVER



2000m


NA Adjustment Module - FROZEN
3156
-82°
3158
-78°
3159
-12°
3160
76°
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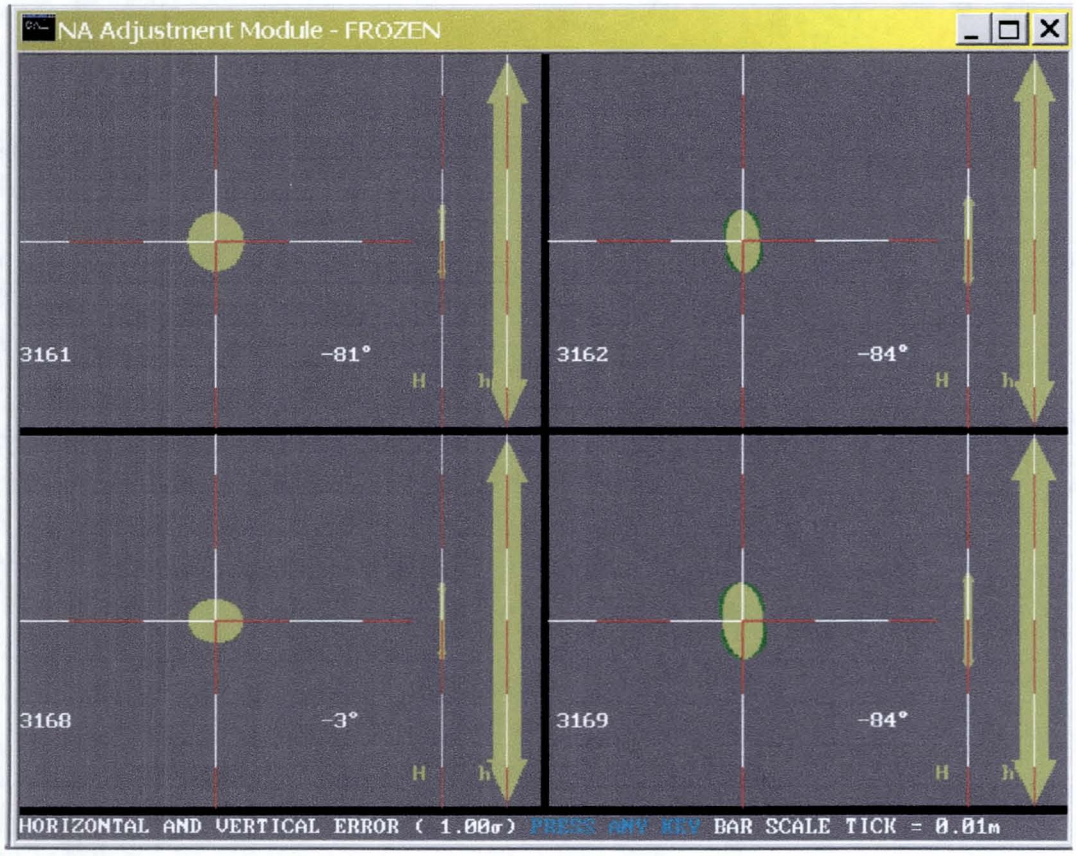
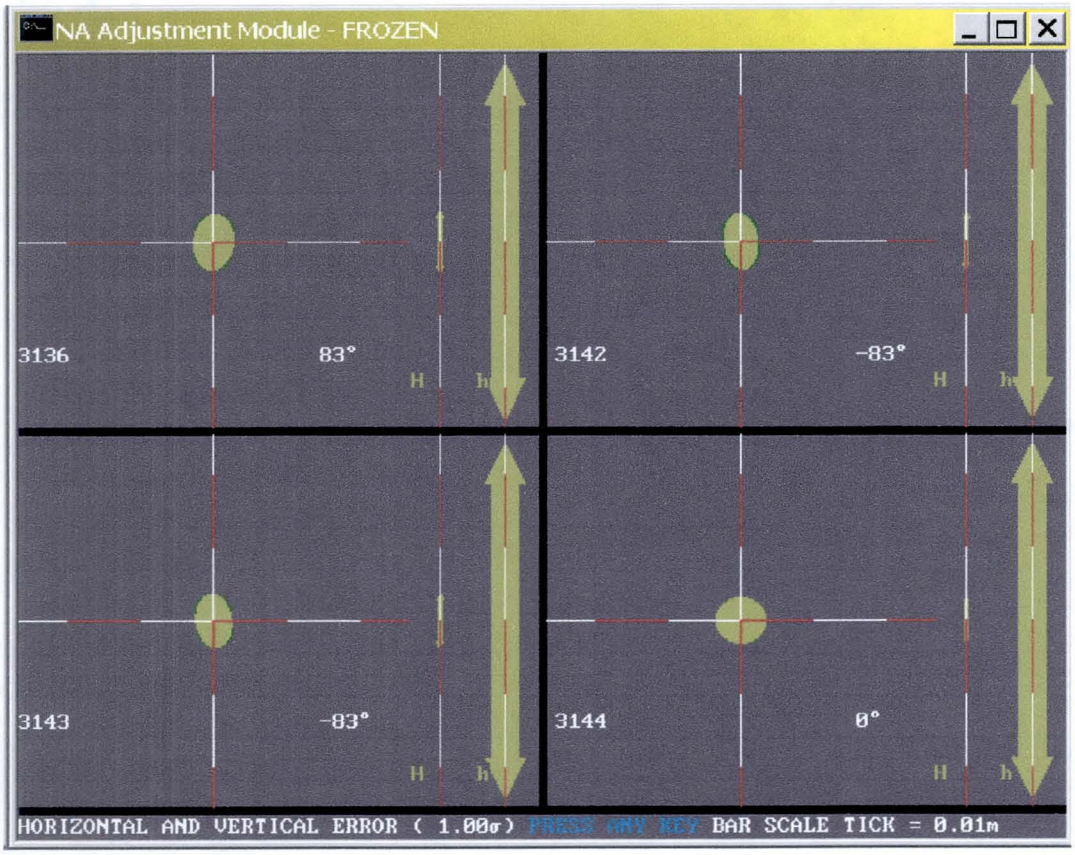
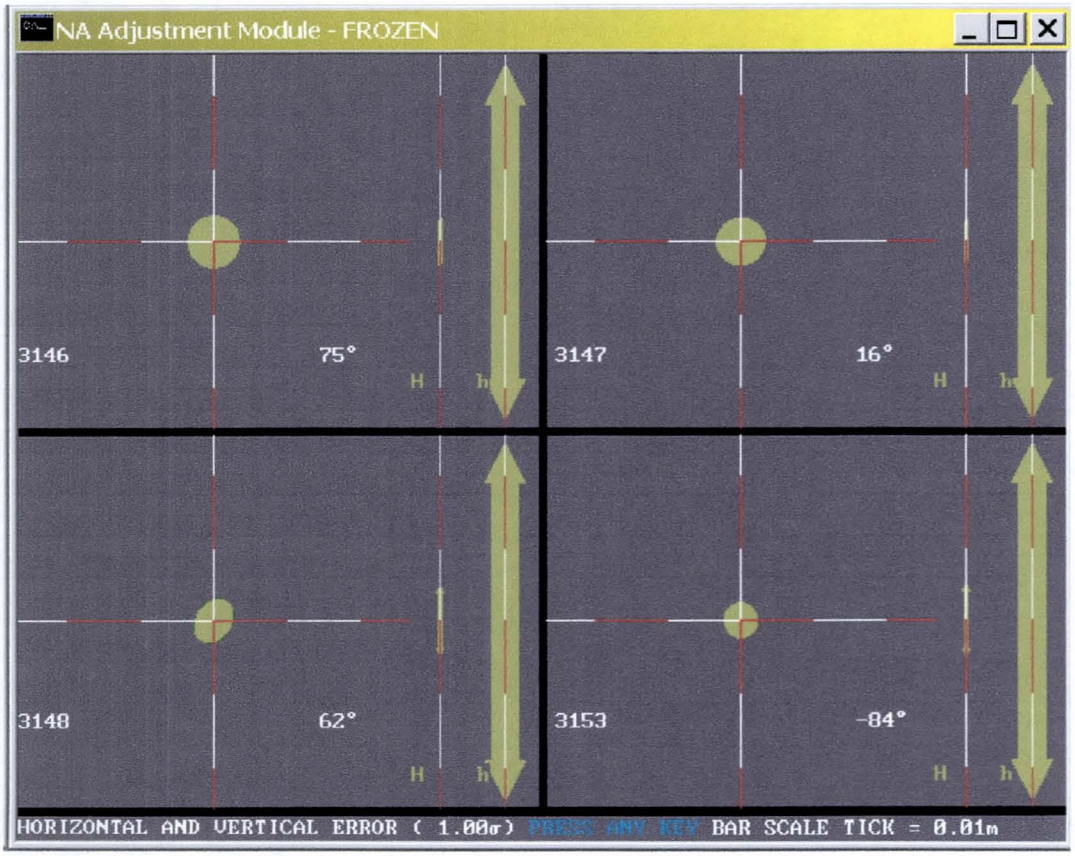
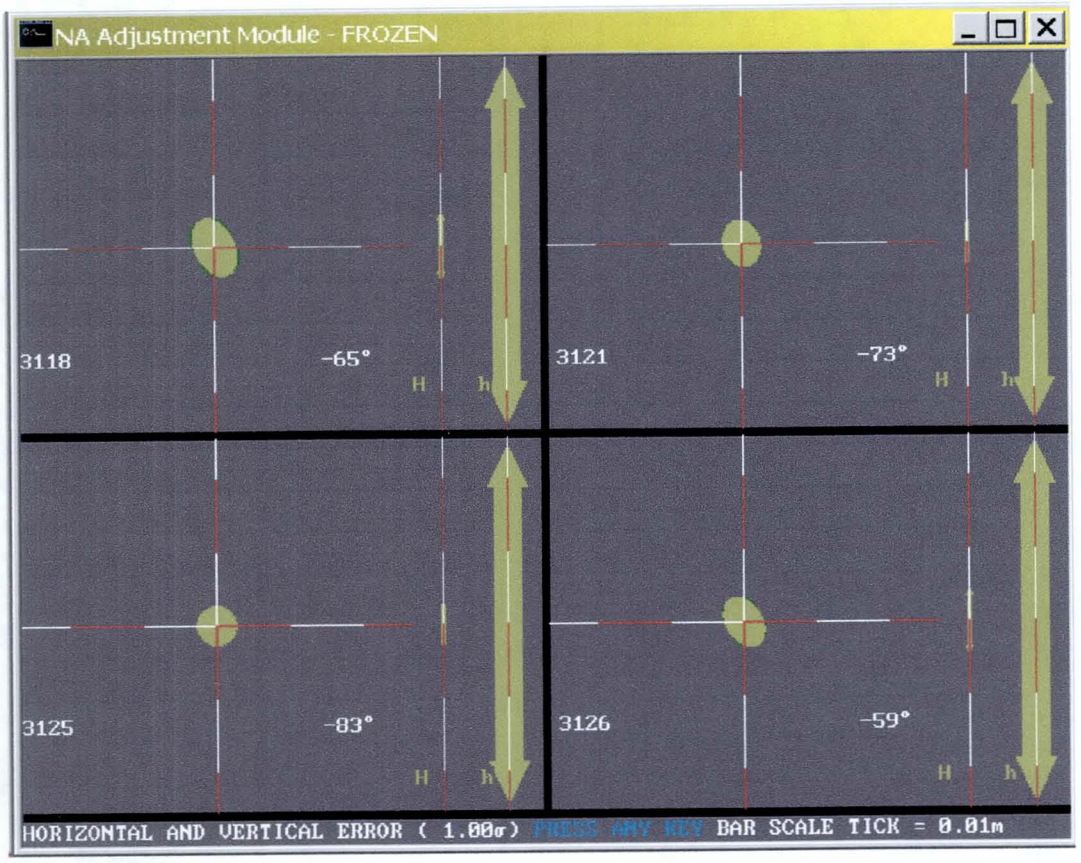
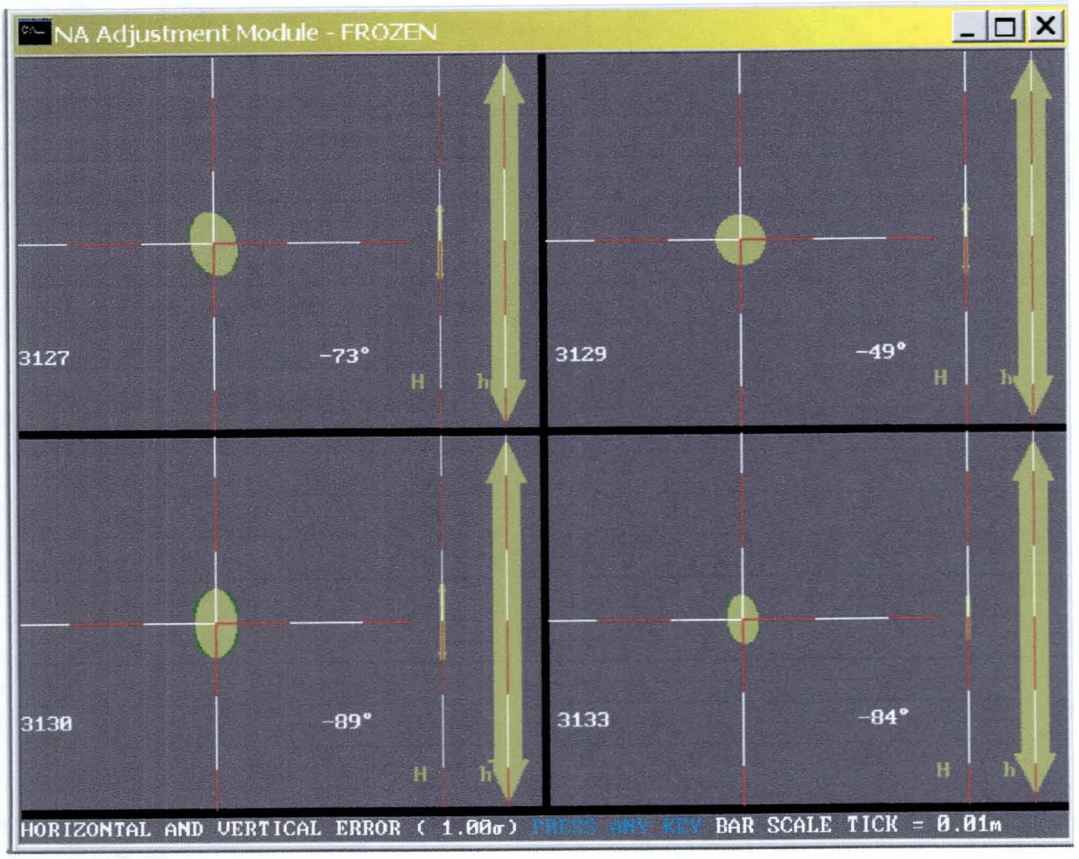
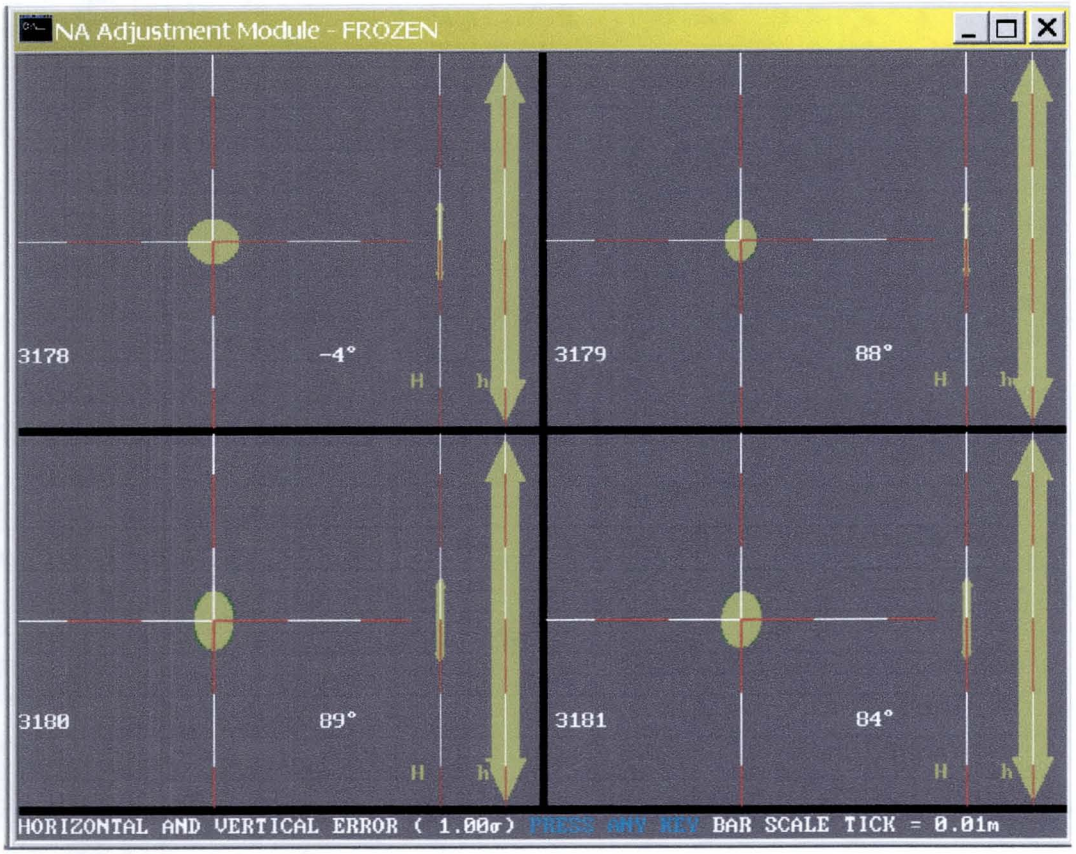

NA Adjustment Module - FROZEN
3161
-81°
3162
-84°
3168
-3°
3169
-84°
HORIZONTAL AND VERTICAL ERROR (1.00σ) PRESS ANY KEY BAR SCALE TICK = 0.01m

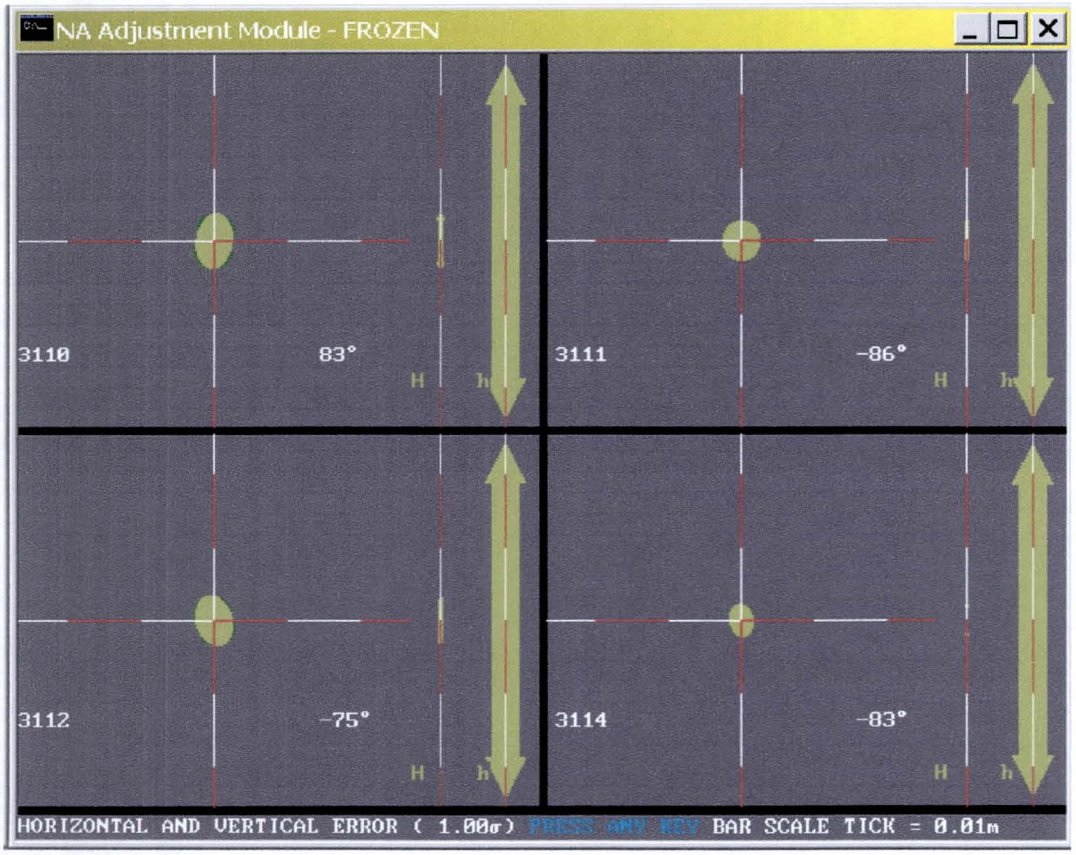

NA Adjustment Module - FROZEN
3136
83°
3142
-83°
3143
-83°
3144
0°
HORIZONTAL AND VERTICAL ERROR (1.00σ) PRESS ANY KEY BAR SCALE TICK = 0.01m

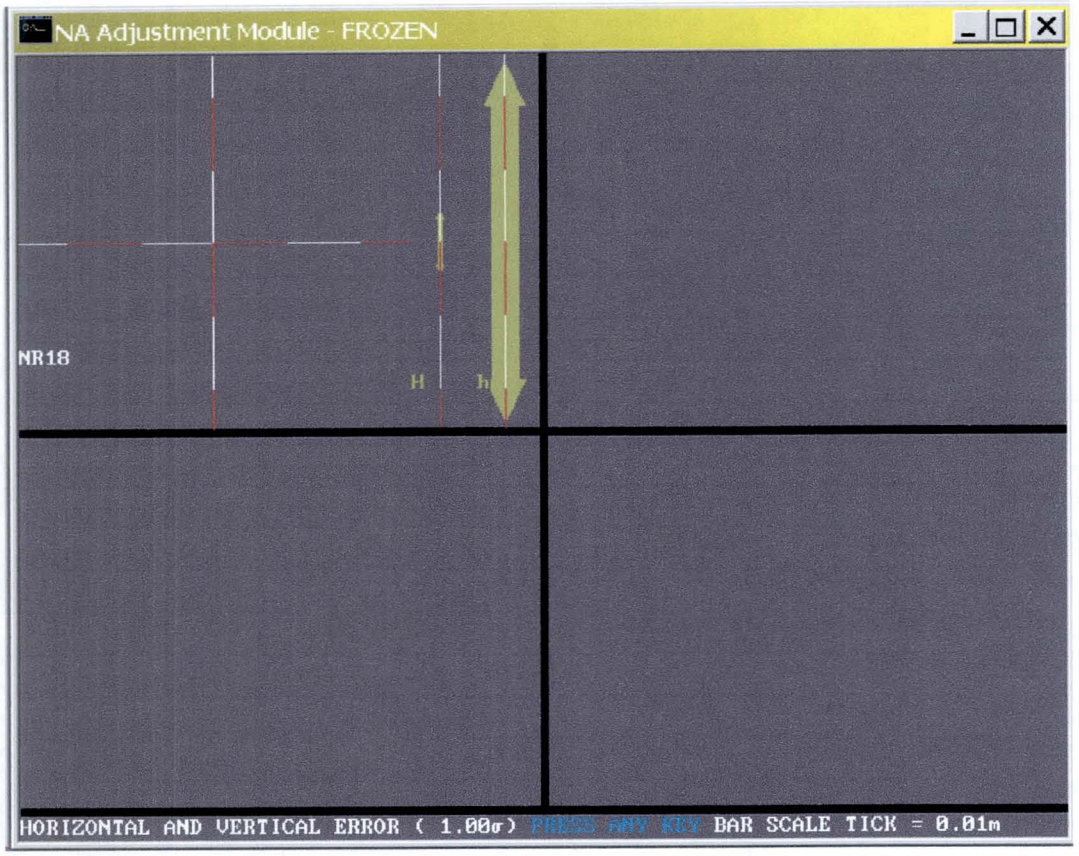

NA Adjustment Module - FROZEN
3146
75°
3147
16°
3148
62°
3153
-84°
HORIZONTAL AND VERTICAL ERROR (1.00σ) PRESS ANY KEY BAR SCALE TICK = 0.01m

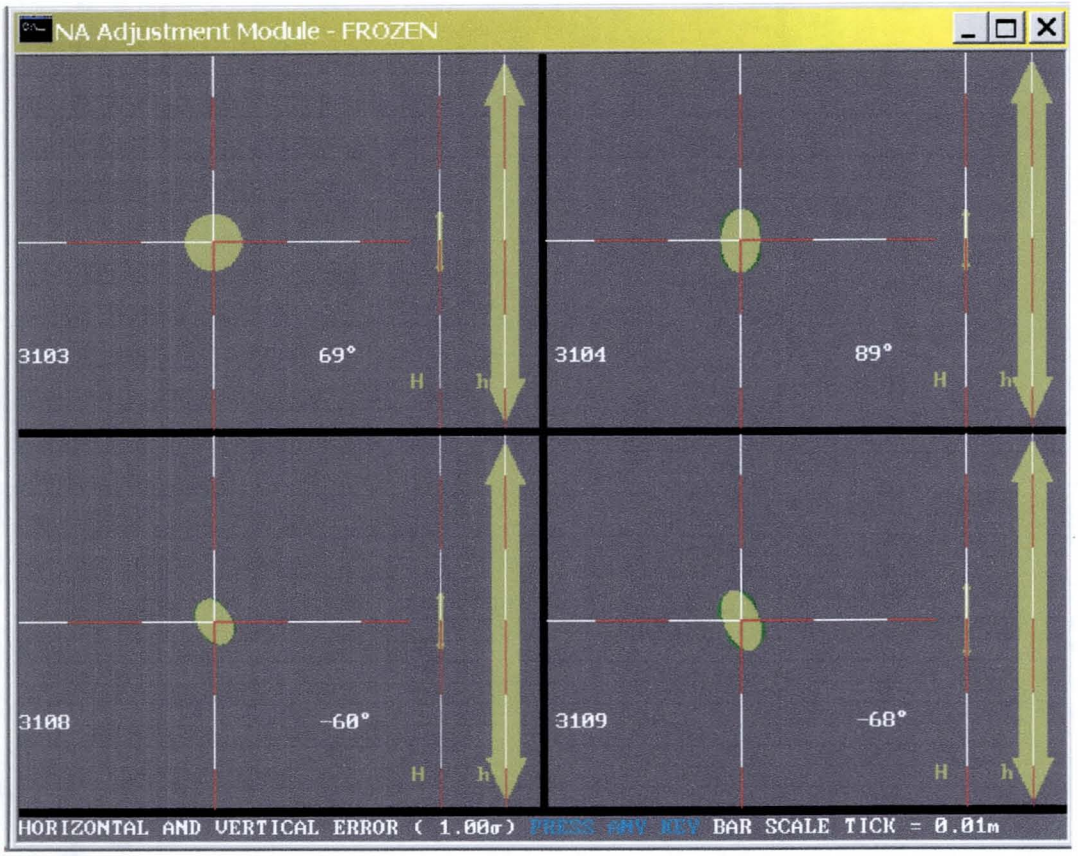

NA Adjustment Module - FROZEN
3118
-65°
H
h
3121
-73°
H
h
3125
-83°
H
h
3126
-59°
H
h
HORIZONTAL AND VERTICAL ERROR (1.00σ) PRESS ANY KEY BAR SCALE TICK = 0.01m

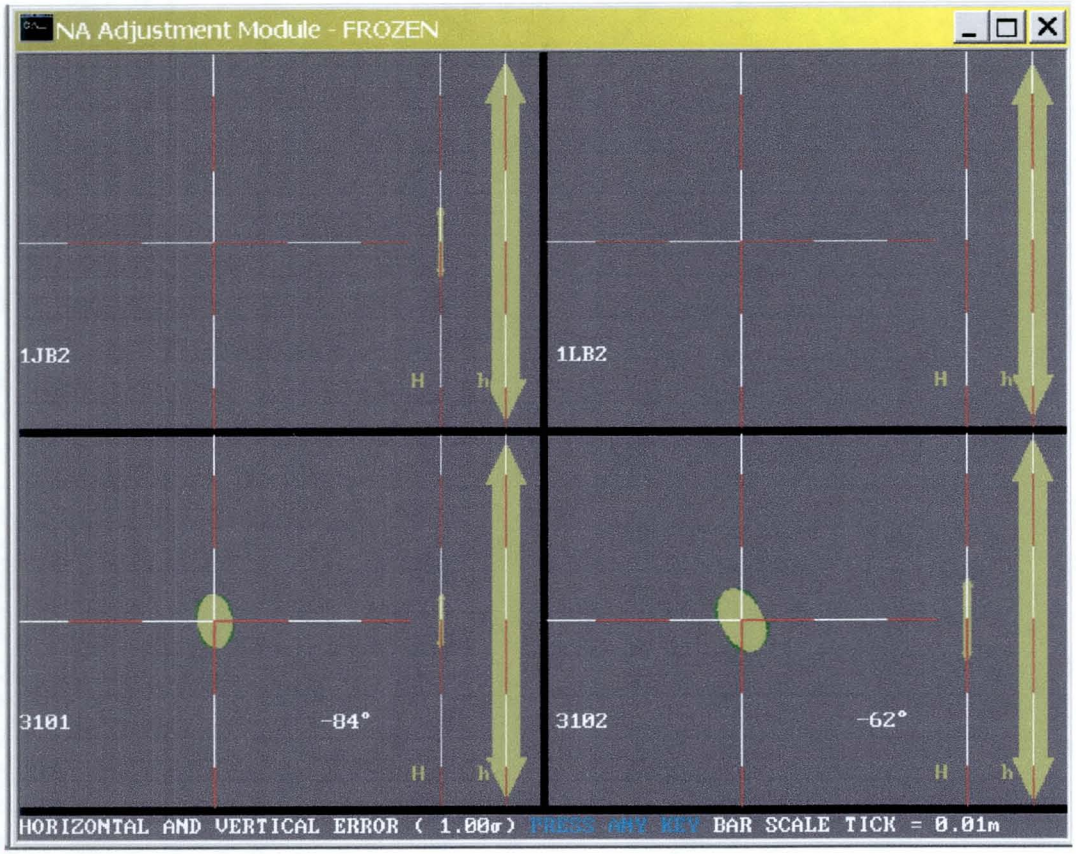

NA Adjustment Module - FROZEN
3127
-73°
H
h
3129
-49°
H
h
3130
-89°
H
h
3133
-84°
H
h
HORIZONTAL AND VERTICAL ERROR (1.00σ) PRESS ANY KEY BAR SCALE TICK = 0.01m

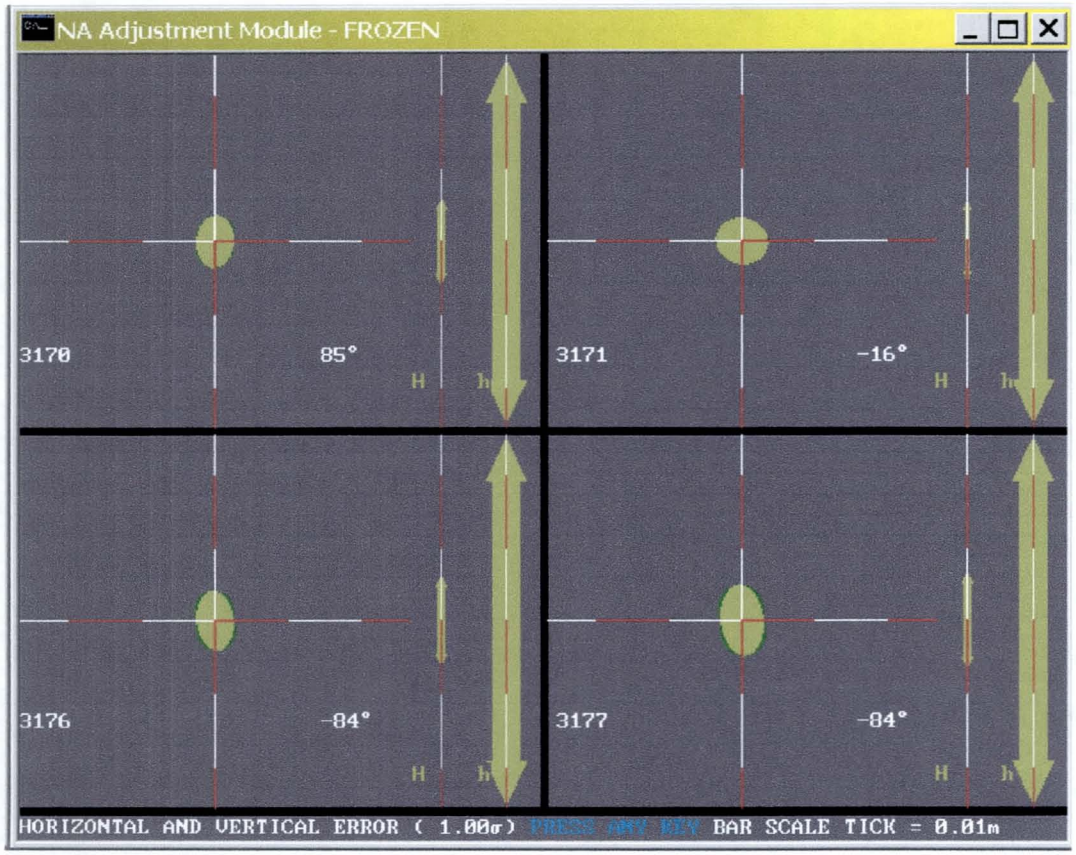

NA Adjustment Module - FROZEN
3178
-4°
3179
88°
3180
89°
3181
84°
HORIZONTAL AND VERTICAL ERROR (1.00σ) PRESS ANY KEY BAR SCALE TICK = 0.01m


NA Adjustment Module - FROZEN
3110
83°
3111
-86°
3112
-75°
3114
-83°
HORIZONTAL AND VERTICAL ERROR (1.00σ) PRESS ANY KEY BAR SCALE TICK = 0.01m


NA Adjustment Module - FROZEN
NR18
H
h
HORIZONTAL AND VERTICAL ERROR (1.00σ) PRESS ANY KEY BAR SCALE TICK = 0.01m


NA Adjustment Module - FROZEN
3103
69°
3104
89°
3108
-60°
3109
-68°
H
h
HORIZONTAL AND VERTICAL ERROR (1.00σ) PRESS ANY KEY BAR SCALE TICK = 0.01m


NA Adjustment Module - FROZEN
1JB2
1LB2
3101
-84°
3102
-62°
HORIZONTAL AND VERTICAL ERROR (1.00σ) PRESS ANY KEY BAR SCALE TICK = 0.01m


NA Adjustment Module - FROZEN
3170
85°
3171
-16°
3176
-84°
3177
-84°
HORIZONTAL AND VERTICAL ERROR (1.00σ) PRESS ANY KEY BAR SCALE TICK = 0.01m

FINAL CONTROL

FINAL ADJUSTED COORDINATES
NAD83 - NAVD88 - INTERNATIONAL FEET

	North	East	Monument Elev	Ground Elev.
NR18	1019694.560	619051.696	1605.82	
1JB2	1007327.314	597026.097	1495.84	1495.56
1LB2	1035004.321	599742.035	1748.36	1748.76
1LC2	1044568.635	618413.704	1834.37	1834.37
1KC2	1023201.706	612178.576	1609.74	1610.00
43101	1050461.431	602350.878	2439.26	2439.02
43102	1050639.112	605020.983	2677.95	2677.95
43103	1052091.718	609344.645	2220.70	2220.70
43104	1051982.498	613149.690	1941.74	1941.74
43108	1042476.893	609281.076	1753.49	1753.49
43109	1042331.177	613078.893	1777.26	1776.96
43110	1042592.888	617160.884	1798.96	1798.96
43111	1038352.787	597408.011	1793.96	1793.96
43112	1039486.150	604888.963	1751.81	1751.71
43114	1037409.016	600927.289	1763.67	1763.67
43118	1036474.827	614998.512	1727.43	1727.43
43121	1033443.546	609288.826	1670.93	1670.93
43125	1032335.406	604970.535	1693.69	1693.69
43126	1028933.666	598061.992	1681.53	1681.28
43127	1029690.802	600971.759	1686.61	1686.61
43129	1028940.172	613111.594	1661.70	1661.70
43130	1029163.012	617402.286	1683.83	1683.83
43133	1024944.410	607081.996	1597.32	1597.32
43136	1023684.639	599076.505	1626.54	1626.54
43142	1018028.534	598006.179	1581.54	1581.34
43143	1018124.830	600584.864	1579.96	1579.96
43144	1018161.656	604565.349	1554.30	1554.10
43146	1017738.259	609055.914	1551.25	1551.05
43147	1017847.070	613094.125	1568.47	1568.47
43148	1017822.655	617622.886	1584.54	1584.54
43153	1012550.248	604992.217	1501.90	1501.90
43156	1009737.436	609090.733	1494.51	1494.41
43158	1011449.557	617395.207	1542.60	1542.60

43159	1008180.951	613111.643	1544.64	1544.64
43160	1007280.298	598674.070	1488.49	1488.49
43161	1006767.056	600870.694	1478.15	1478.15
43162	1006254.896	604794.780	1460.26	1460.26
43168	1002543.813	611726.027	1503.40	1503.40
43169	1003003.552	617222.119	1592.23	1592.23
43170	1000226.492	599059.663	1448.22	1448.22
43171	1001103.612	605964.132	1431.29	1431.29
43176	994117.401	596313.588	1404.39	1403.94
43177	994214.132	600251.332	1435.67	1435.67
43178	994250.760	603963.764	1428.96	1428.81
43179	995959.536	608494.320	1442.77	1442.77
43180	996778.972	612815.793	1539.95	1539.95
43181	996959.556	616654.563	1524.92	1524.92

MONUMENT/POINT DESCRIPTIONS (INCLUDING "BLIND" TARGETS)

1LC2 GDACS CONTROL POINT - Found steel rod in casing along New River Road in Sec. 17, T6N, R2E.

1LB2 GDACS CONTROL POINT - Found steel rod in casing on East side of Pleasant Harbor Road in the SE¼ Sec. 22, T6N, R1E.

NR18 GDACS CONTROL POINT - Found steel rod in casing in desert approx. ¼-mile north of Hwy 74 in the SW¼ Sec. 5, T5N, R2E.

1JB2 GDACS CONTROL POINT - Found steel rod in casing in desert approx. ¼-mile west of Lake Pleasant Road near the NE corner of Sec. 21, T5N, R1E.

1KC2 GDACS CONTROL POINT - Found steel rod in casing in desert along the south side of a fence line on near the NE corner of Sec. 1, T5N, R1E.

43101 Set rebar w/2" cap stamped "43101" on ridgeline NNW of "Black Mountain" near the west line of Sec. 2, T6N, R1E.

43102 Set rebar w/2" cap stamped "43102" on ridgeline north of "Black Mountain" near the north/south mid-section line of Sec. 2, T6N, R1E.

43103 Set rebar w/2" cap stamped "43103" on small ridge south of trail near the north line of the SW¼ Sec. 1, T6N, R1E.

43104 Set rebar w/2" cap stamped "43104" on flat ground south of trail and approx. 800' west of transmission line near the east line of the SE¼ Sec. 1, T6N, R1E.

43105 Set rebar w/2" cap stamped "43105" at end of trail above tank in the NE¼ Sec. 11, T6N, R1E.

43106 Set rebar w/2" cap stamped "43106" approx. 400' west of transmission line and 800' WNW of stock tank in the SE¼ Sec. 12, T6N, R1E.

43107 Set rebar w/2" cap stamped "43107" at intersection of trail and paved road to "Desert Outdoor Center" in the SE¼ Sec. 15, T6N, R1E.

43108 Set rebar w/2" cap stamped "43108" in open desert approx. 600' east of transmission line in the NW¼ of Sec. 13, T6N, R1E.

43109 Set rebar w/2" cap stamped "43109" approx. 250' east of section line road and 600' south of gas line crossing along the east line of Sec. 13, T6N, R1E.

43110 Set rebar w/2" cap stamped "43110" on west side of New River Road at intersection with dirt trails in the NE¼ Sec. 18, T6N, R2E.

43111 Set rebar w/2" cap stamped "43111" on the north edge of "Vista Point" in Pleasant Harbor Marina in Sec. 22, T6N, R1E.

43112 Set rebar w/2" cap stamped "43112" south of rock outcrop at south end of "Black Mountain" approx. 1000' west of transmission line near the south line of Sec. 14, T6N, R1E.

43114 Set rebar w/2" cap stamped "43114" on south side of road/scar approx. 1200' east of the north end of Pleasant harbor Road in Sec. 22, T6N, R1E.

43115 Set rebar w/2" cap stamped "43115" south of fence and road/scar and approx. 800' east of transmission line through Sec. 23, T6N, R1E.

43116 Set rebar w/2" cap stamped "43116" on north side of road/scar and east of drain to "Flat Tank" in Sec. 24, T6N, R1E.

43117 Set rebar w/2" cap stamped "43117" on west side of New River Road at its intersection with the north/south section line road along the east line of Sec. 24, T6N, R1E.

43118 Set rebar w/2" cap stamped "43118" on north side of road/scar through Sec. 19, T6N, R2E approx. 3500' east of New River Road.

43119 Set rebar w/2" cap stamped "43119" at east end of road/scar through Sec. 19, T6N, R2E approx. 3800' east of New River Road.

43120 Set rebar w/2" cap stamped "43120" 100' west of New River Road at south end of curve west of the S¼ corner Sec. 23, T6N, R1E.

43121 Set rebar w/2" cap stamped "43121" on south side of New River Road at curve to north in the NE¼ Sec. 25, T6N, R1E.

43122 Set rebar w/2" cap stamped "43122" in open desert above the bank of New River in the NW¼ Sec. 30, T6N, R2E.

43123 Set rebar w/2" cap stamped "43123" in west R.O.W. of Pleasant Harbor Road at north end of curve in the SE¼ Sec. 27, T6N, R1E.

43124 Set rebar w/2" cap stamped "43124" on east side of old gravel road to Lake Pleasant and approx. 750' south of transmission line in the SE¼ Sec. 27, T6N, R1E.

43125 Set rebar w/2" cap stamped "43125" southeast of trail at end of road/scar for the northeasterly projection of Hwy 74 connection to New River Road (under construction) near the center of Sec. 26, T6N, R1E.

43126 Set rebar w/2" cap stamped "43126" south of road/scar (under construction) east of where proposed Hwy 74 connection to New River Road crosses Pleasant harbor Road in the SE¼ Sec. 27, T6N, R1E.

43127 Set rebar w/2" cap stamped "43127" south of road/scar (under construction) for proposed Hwy 74 connection to New River Road approx. 1600' east of transmission line crossing in SE¼ Sec. 27, T6N, R1E.

43128 Set rebar w/2" cap stamped "43128" in open desert southeast of small track road in the SW¼ Sec. 25. T6N, R1E.

43129 Set rebar w/2" cap stamped "43129" on west bank of New River near the NE corner of Sec. 36, T6N, R1E.

43130 Set rebar w/2" cap stamped "43130" in open desert approx. 1300' west and 500' south of the NE corner of Sec. 31, T6N, R2E.

43131 Set rebar w/2" cap stamped "43131" west of New River Road centerline approx. 800' south of power line and the north line of Sec. 35, T6N, R1E, across from track road to east.

43132 Set rebar w/2" cap stamped 43132" 300' east of Lake Pleasant Road and "Old Lake Pleasant Road" and transmission line along the south R.O.W. fence of Hwy 74 +/- 50' west of cattle guard in Sec 34, T6N, R1E.

43133 Set rebar w/2" cap stamped "43133" in the SE¼ Sec. 35, T6N, R1E on the east side of wash where track road crosses from west.

43134 Set rebar w/2"cap stamped "43134" in open desert south a track road south of the center of Sec. 36, T6N, R1E.

43135 Set rebar w/2" cap stamped "43135 in open desert in the SE¼ Sec 31, T6N, R2E approx. 600' west of east line of section.

43136 Set rebar w/2" cap stamped "43136" along NE R.O.W. fence of Hwy 74 at its intersection with the fence line for the south line of Sec. 34, T6N, R1E.

43137 Set rebar w/2" cap stamped "43137" approx. 60' west of New River Road approx. 1900' north of the intersection of Hwy 74.

43138 Set rebar w/2" cap stamped "43138" in open desert approx. 3200 feet east of New River Road and 900 feet south of the north line of Sec. 2, T5N, R1E.

43140 Set rebar w/2" cap stamped "43140" in open desert west of New River channel approx. 3200 feet north of Hwy 74 in the NW¼ Sec. 1, T5N, R1E.

43141 Set rebar w/2" cap stamped "43141" along north/south fence line 40' south of high post gate at trail crossing near the center of the SE¼ Sec. 6, T5N, R2E.

43142 Set rebar w/2" cap stamped "43142" on north side of "Old Carefree Highway east of the end of the runway at the west end of glider park in Sec. 3, T5N, R1E.

43143 Set rebar w/2" cap stamped "43143"on west side of pipeline approx. 250' north of "Old Carefree Highway NW of its intersection with Lake Pleasant Road in Sec. 3, T5N, R1E.

43144 Set rebar w/2' cap stamped "43144" on the south side of the Hwy 74 R.O.W. fence approx. 1000' west of its intersection with the scar for the old highway alignment in Sec. 11, T5N, R1E.

43145 Set rebar w/2" cap stamped "43145" on the south side of Hwy 74 approx. 1000' west of the westerly of two bridges crossing New River in Sec. 11, T5N, R1E.

43146 Set rebar w/2" cap stamped "43146" on south side of Hwy 74 midway between two bridges crossing New River in Sec. 12, T5N, R1E.

43147 Set rebar w/2" cap stamped "43147" on south side of Hwy 74 near the the east line of Sec. 12, T5N, R1E.

43148 Set rebar w/2" cap stamped "43148" on south side of Hwy 74 approx. 1300' west of the east line of Sec. 7, T5N, R2E.

43149 Set rebar w/2" cap stamped "43149" 6" east of power pole on the easterly R.O.W. of Lake Pleasant Road approx. 2000 feet south of "Old Carefree Highway" in Sec. 10, T5N, R1E.

43150 Set rebar w/2" cap stamped "43150" on top of small hill approx. 500' SW of "Bob's Tank" in the NE¼ Sec. 11, T5N, R1E.

43151 Set rebar w/2" cap stamped "43151" along trail and wash in open desert approx. 3400' south of Hwy 74 in the SW¼ Sec. 12, T5N, R1E.

43152 Set rebar w/2" cap stamped "43152" NE of small track road approx. 3000' south of Hwy 74 in the SW¼ Sc. 7, T5N, R2E.

43153 Set rebar w/2" cap stamped "43153" in open desert between track road and wash approx. 2500' north of CAP canal (underground) in the NW¼ Sec.14, T5N, R1E.

43154 Set rebar w/2" cap stamped "43154" along pipeline on east side of Lake Pleasant Road approx. 1100' south of the CAP canal in Sec. 15, T5N, R1E.

43155 Set rebar w/2" cap stamped "43155" in CAP R.O.W. east of wash crossing area where CAP is underground in Sec. 14, T5N, R1E.

43156 Set rebar w/2" cap stamped "43156" on edge of trail on SE side of "Snodgrass Tank" near the center of Sec. 13, T5N, R1E.

43157 Set rebar w/2" cap stamped "43157" in open desert Se of trail and between two large washes NW of small hill in the NW¼ Sec. 18, T5N, R2E.

43158 Set rebar w/2" cap stamped "43158" on north side of trail approx. 700' east of "Aso Tank" in the NE¼ Sec 18, T5N, R2E

43159 Set rebar w/2" cap stamped "43159" in open desert NE of trail ENE of volcanic hill in the SE¼ Sec. 13, T5N, R1E.

43160 Set rebar w/2" cap stamped "43160" approx. 100' west of Lake Pleasant Road across from north end of COE dam in the NW¼ Sec. 22, T5n, R1E.

43161 Set rebar w/2" cap stamped "43161" in open desert approx. 1700' east of the north end of the COE dam in the Ne¼ Sec. 22, T5N, R1E.

43162 Set rebar w/2" cap stamped "43162" in open desert each of New River channel near the N¼ corner of Sec. 23, T5N, R1E.

43163 Set rebar w/2" cap stamped "43163" on SW side of CAP canal south of trail along east/west mid-section line of Sec. 24, T5N, R1E.

43164 Set rebar w/2" cap stamped "43164" in open desert between two washes approx. 1600' NE of the CAP canal below (SE) mountain in SE¼ Sec 24, T5N, R1E

43165 Set rebar w/2" cap stamped "43165" in open desert east of trail and on west slope of small hill in the SE¼ Sec. 18, T5N, R2E.

43166 Set rebar w/2" cap stamped "43166" along pipeline on east side of Lake Pleasant Road approx. 100' south of the north line of Sec. 27, T5N, R1E.

43167 Set rebar w/2" cap stamped "43167" at "Y" in trails on east side of New River near the NW corner of Sec. 26, T5N, R1E.

43168 Set rebar w/2" cap stamped "43168" south of wash on east side of CAP canal near the North line of Sec. 25, T5N, R1E.

43169 Set rebar w/2" cap stamped "43169" approx. 300' west of jeep trail and on the east side of small hill in the SE¼ Sec. 19, T5N, R2E.

43170 Set rebar w/2" cap stamped "43170" approx. 150' north of trail at the NW end of "West Wing Mtn." Approx. 1100' east of COE dam in the NW¼ sec. 27, T5N, R1E.

43171 Set rebar w/2" cap stamped "43171" in open desert approx. 250' west of north/south trail along the north mid-section line of Sec. 26, T5N, R1E.

43172 Set rebar w/2" cap stamped "43172" in open desert north of was and south of trail approx. 2000' southwesterly of CAP canal in the NW¼ Sec. 25, T5N, R1E.

43173 Set rebar w/2" cap stamped "43173" on the SW side of the CAP canal near the eat/west mid-section line of Sec. 30, T5N, R2E.

43175 Set rebar w/2" cap stamped "43175" east of trail on west slope of small hill east of the ponding area above New River Dam in the SE¼ Sec. 26, T5N, R1E.

43176 Set rebar w/2" cap stamped "43176" on south side of track road along the east/west mid-section line and approx. 600' west of the east line of Sec. 33, T5N, R1E.

43177 Set rebar w/2" cap stamped "43177" west of four utility boxes on south side of newly constructed subdivision road along the mid-section line of Sec. 34. T5N, R1E.

43178 Found 1½" copper cap stamped "USCELA DIST" on east end of small hill approx. 700' SSW of the west end of New River Dam in the NW¼ Sec. 35, T5N, R1E.

43179 Set rebar w/2" cap stamped "43179" approx. 300' east of trail and approx. 2100 feet due east of the east end of New River Dam in the NW¼ Sec. 36, T5N, R1E.

43180 Set rebar w/2" cap at NW corner of new subdivision on the east slope of "East Wing Mtn." Approx. 2300' west of63rd Ave. in the NE¼ Sec. 36, T5N, R1E.

43181 Set rebar w/2" cap stamped "43181" along the NE side of the CAP canal due north of the northerly projection of the property line fence of the treatment plant in the NE¼ Sec. 31, T5N, R2E.

STRUCTURE SURVEYS

CONTRACT 2000C035 – TASK ASSIGNMENT #5
UPPER NEW RIVER WATERSHED
STRUCTURE SURVEYS

A total of 11 structures within the project boundary were located and measured. DTM, Inc. was not supplied with any roadway plans or other documents for structure location. Therefore all structures were found by site reconnaissance. Structures are located along Carefree Highway (Highway 74), New River Road and Pleasant Harbor Road. The following data files, sketches and photographs document our findings. All coordinate triplet values are based on the GDACS points as identified on the structure sketches. The tabular data (hardcopy and electronic is coded by data collector point number, XYZ coordinates, and descriptor. Note that because of the lack of highway plans, the location of all structures is based on mile post markers. Also note that the file includes "shots" on structure "centerline" where appropriate. Descriptor "codes" refer to the roadway names: i.e., "nr" = New River Road, "ph" = Pleasant Harbor. The coding can be cross-referenced to the sketches by point number and structure location.

Upper New River Structure Surveys

```
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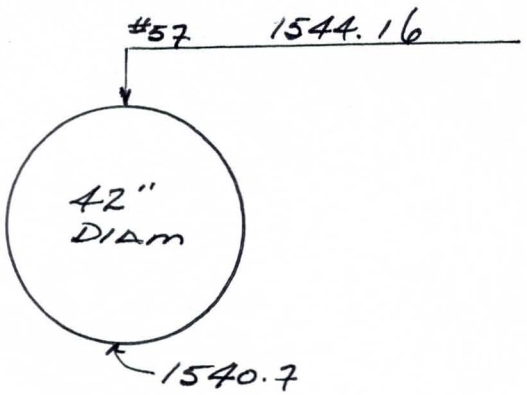
FCDMC Contract 2000C035
Task4- Upper New River Watershed
Structure Detail Worksheet
DTM, INC. Project #23017

Type of Structure: 42" CMP Date: 4.30.03
File Name: NEW RIVER Description Name: CAREFREE HWY MP 25.20
Party Chief: DAVE S. GDAC Control Pt # NR18

(UPSTREAM) NORTH

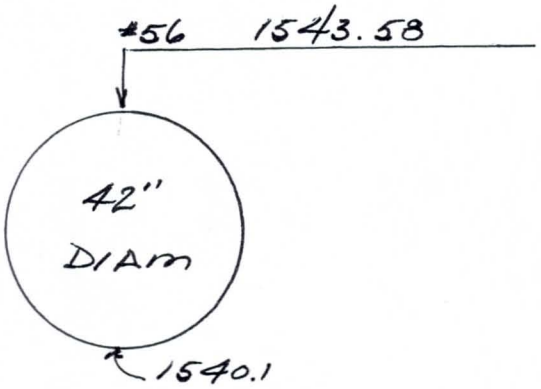
☒ Photo Taken CH2520N.JPG



General Condition of Structure GOOD

(DOWNSTREAM) SOUTH

☒ Photo Taken CH2520S.JPG



General Condition of Structure OUTLET ~~CLOGGED~~ COVERED WITH BRUSH

CH2520S.JPG

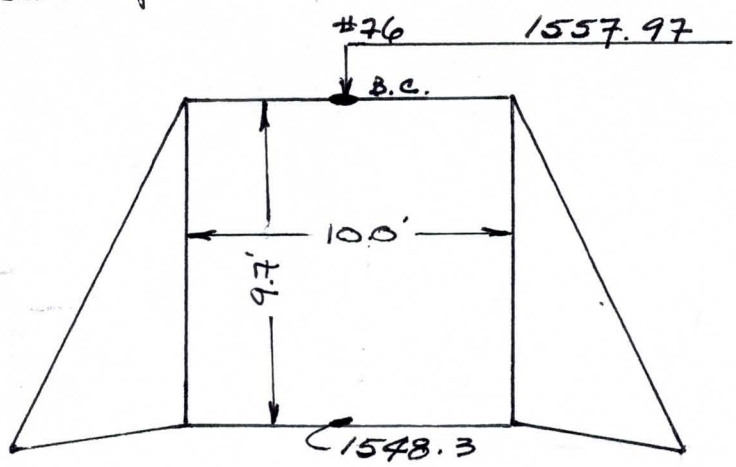
CH2520N.JPG

FCDMC Contract 2000C035
Task4- Upper New River Watershed
Structure Detail Worksheet
DTM, INC. Project #23017

Type of Structure: BOX CULVERT Date: 4.30.03
File Name: NEW RIVER Description Name: CAREFREE HWY MP 25.22
Party Chief: DAVE S GDAC Control Pt # NR18

(UPSTREAM)

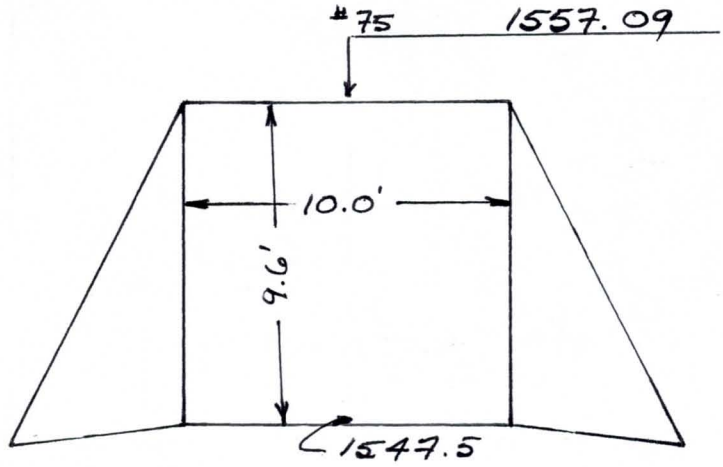
☒ Photo Taken CH2522N.JPG



General Condition of Structure GOOD

(DOWNSTREAM)

☒ Photo Taken CH2522S.JPG



General Condition of Structure GOOD

CH2522S.JPG

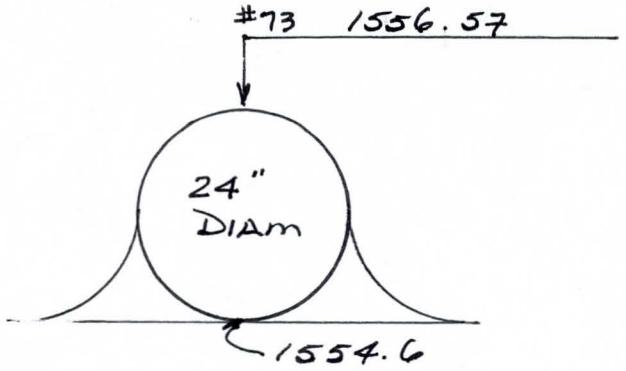
CH2522N.JPG

FCDMC Contract 2000C035
Task4- Upper New River Watershed
Structure Detail Worksheet
DTM, INC. Project #23017

Type of Structure: 24" cmp Date: 4.30.03
File Name: NEW RIVER Description Name: CAREFREE HWY MP 25.37
Party Chief: DAVE S. GDAC Control Pt # NR18

(UPSTREAM)

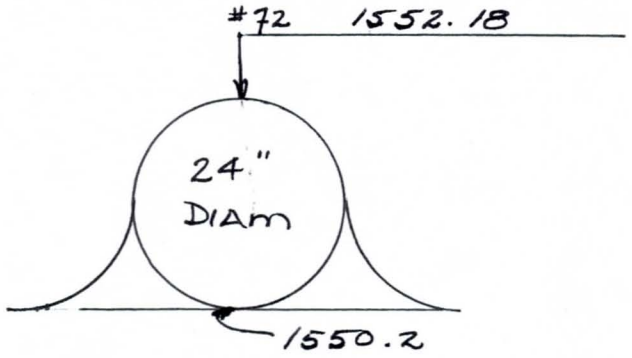
☒ Photo Taken CH2537N.JPG



General Condition of Structure

(DOWNSTREAM)

☒ Photo Taken CH2537S.JPG



General Condition of Structure

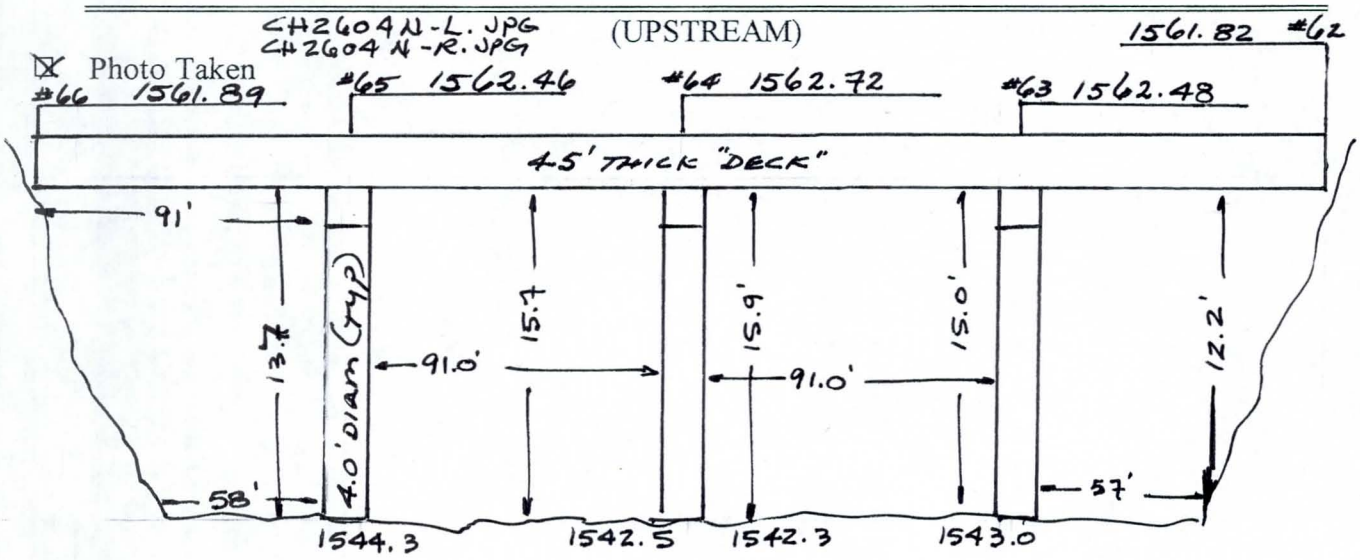
CH 25378.JPG

CH 2537N. JPG

FCDMC Contract 2000C035
Task4- Upper New River Watershed
Structure Detail Worksheet
DTM, INC. Project #23017

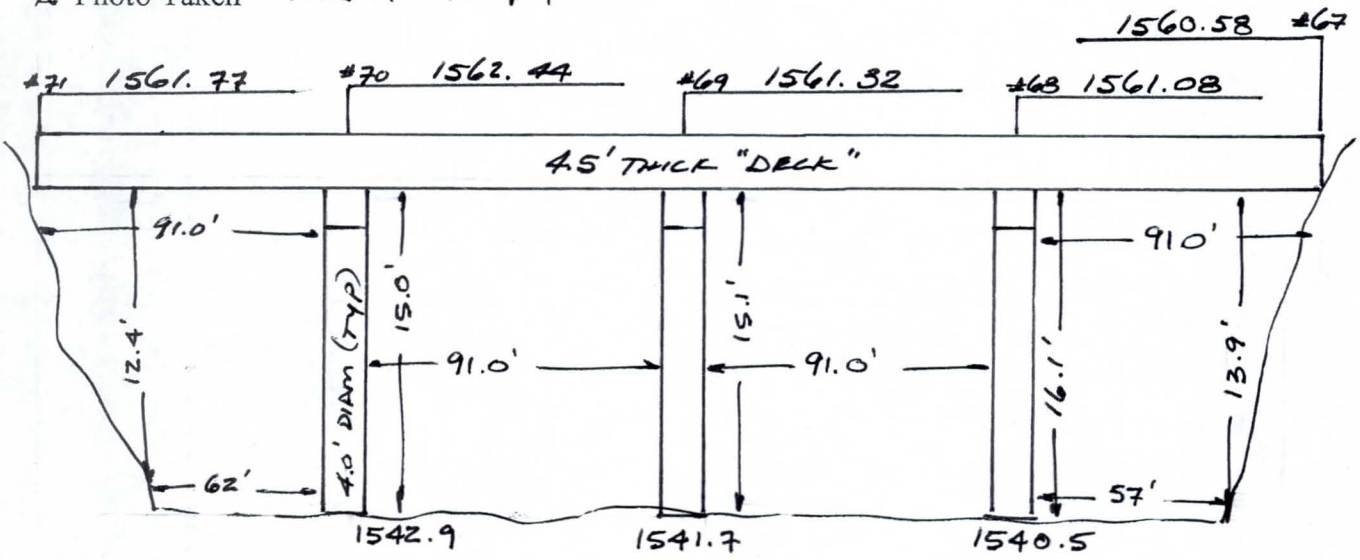
Type of Structure: BRIDGE Date: 4.30.03
File Name: NEW RIVER Description Name: CAREFREE HWY MP 26.04
Party Chief: DAVE S. GDAC Control Pt # NR 18

☒ Photo Taken CH2604N-L.JPG CH2604N-R.JPG (UPSTREAM)



General Condition of Structure

☒ Photo Taken CH2604S-L.JPG CH2604S-R.JPG (DOWNSTREAM)



General Condition of Structure

CH2604N-L.JPG

~~CH2604N-L.JPG~~
CH2604N-R.JPG

CH26045-R.JPG

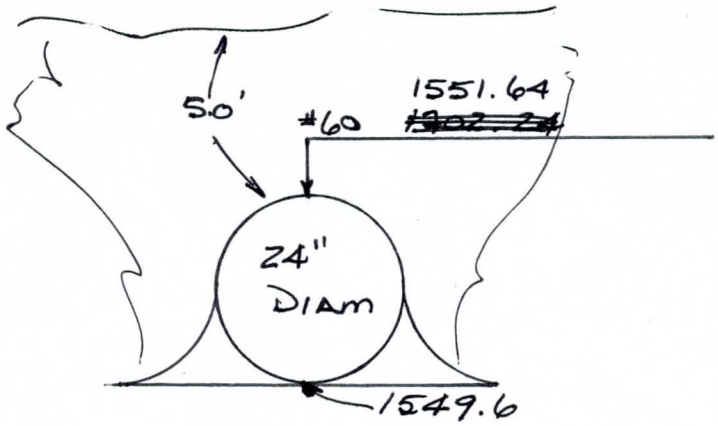
CH26045-L.JPG

FCDMC Contract 2000C035
Task4- Upper New River Watershed
Structure Detail Worksheet
DTM, INC. Project #23017

Type of Structure: 24" CMP Date: 4.30.03
File Name: NEW RIVER Description Name: CAREFREE HWY. MP 26.22
Party Chief: DAVE S. GDAC Control Pt # NR18

(UPSTREAM)

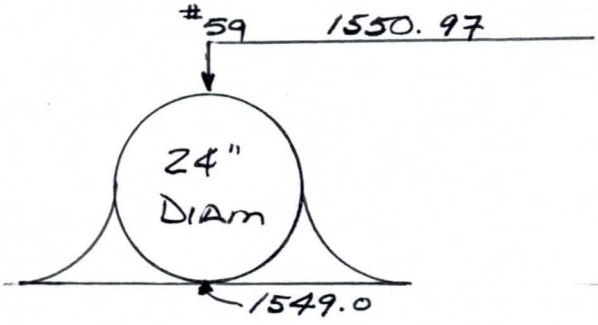
☒ Photo Taken CH262N.JPG



General Condition of Structure GOOD - PIPE IS SET VERY DEEP IN WASH

(DOWNSTREAM)

☒ Photo Taken CH262S.JPG



General Condition of Structure GOOD - BUT BRUSH COVERS OUTLET

CH262S.JPG

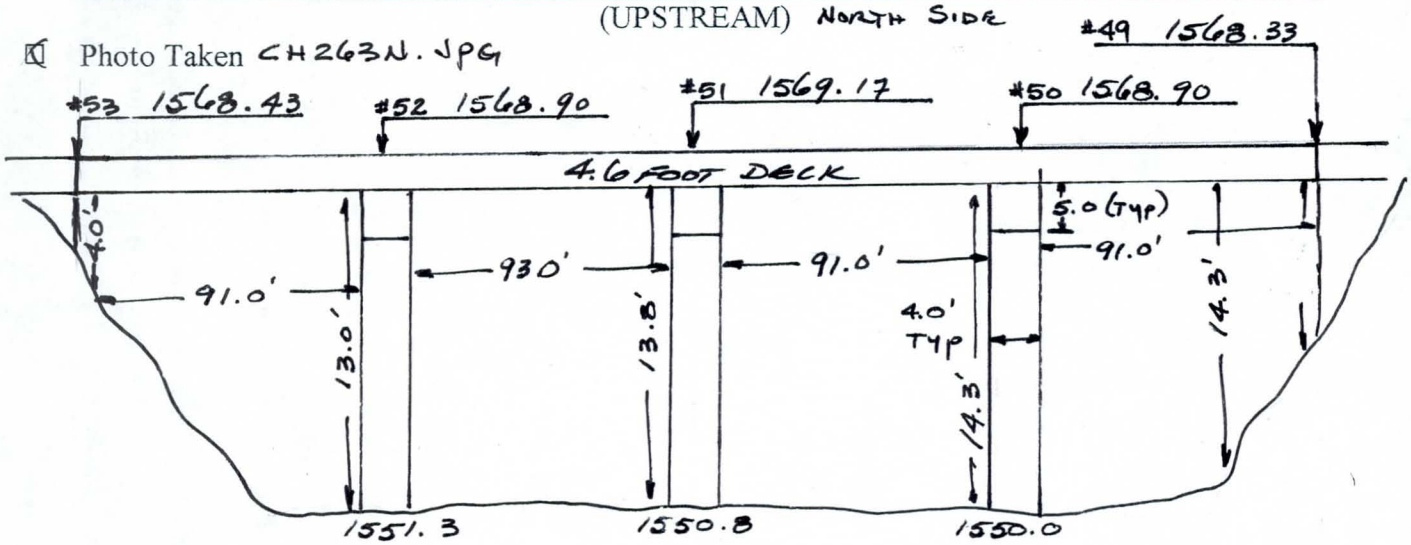
CH262N.UPG

FCDMC Contract 2000C035
Task4- Upper New River Watershed
Structure Detail Worksheet
DTM, INC. Project #23017

Type of Structure: CONCRETE BRIDGE Date: 4.21.03
File Name: NEW RIVER Description Name: CAREFREE HWY M.P. 26.28
Party Chief: DAVE S. GDAC Control Pt # 1LB2

(UPSTREAM) NORTH SIDE

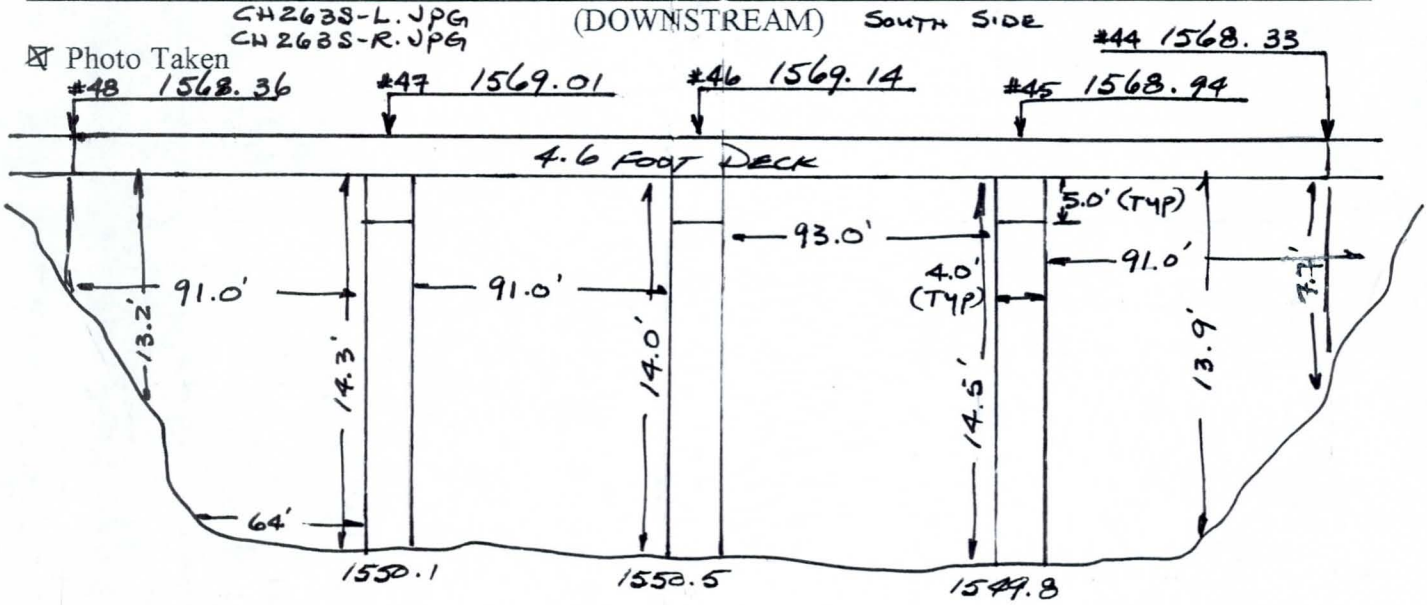
☒ Photo Taken CH263N.JPG



General Condition of Structure

(DOWNSTREAM) SOUTH SIDE

☒ Photo Taken CH263S-L.JPG CH263S-R.JPG



General Condition of Structure

CH263N.JPG

CH2638-R.JPG

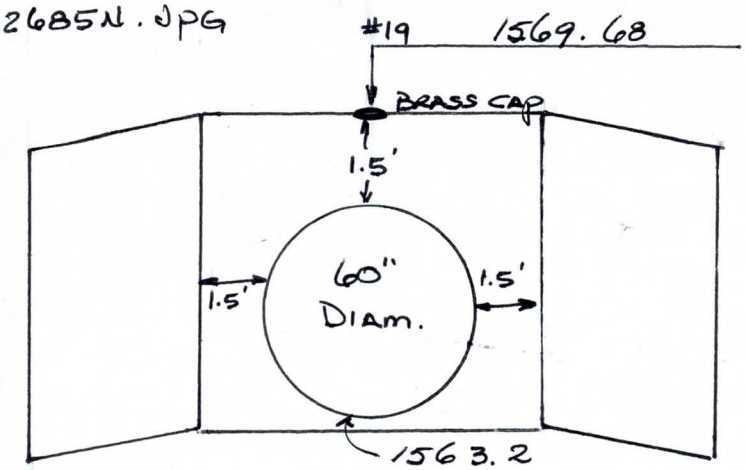
CH2635-L.JPG

FCDMC Contract 2000C035
Task4- Upper New River Watershed
Structure Detail Worksheet
DTM, INC. Project #23017

Type of Structure: 60" CMP Date: 4.22.03
File Name: NEW RIVER Description Name: CAREFREE HWY MP 26.85
Party Chief: DAVE S. GDAC Control Pt # NR 18

(UPSTREAM) NORTH SIDE

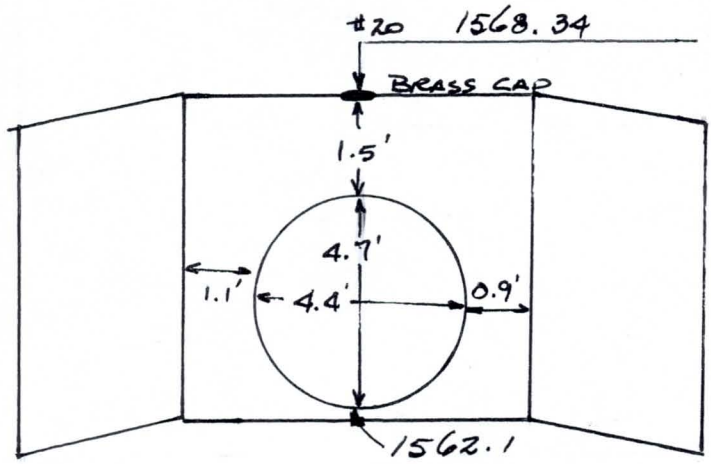
☒ Photo Taken CH2685N.JPG



General Condition of Structure TRANSITION FROM CIRCLE TO OVAL OCCURS ± 8 FEET INSIDE NORTH FACE

(DOWNSTREAM) SOUTH SIDE

☒ Photo Taken CH2685S.JPG



General Condition of Structure

CH26852.JPG

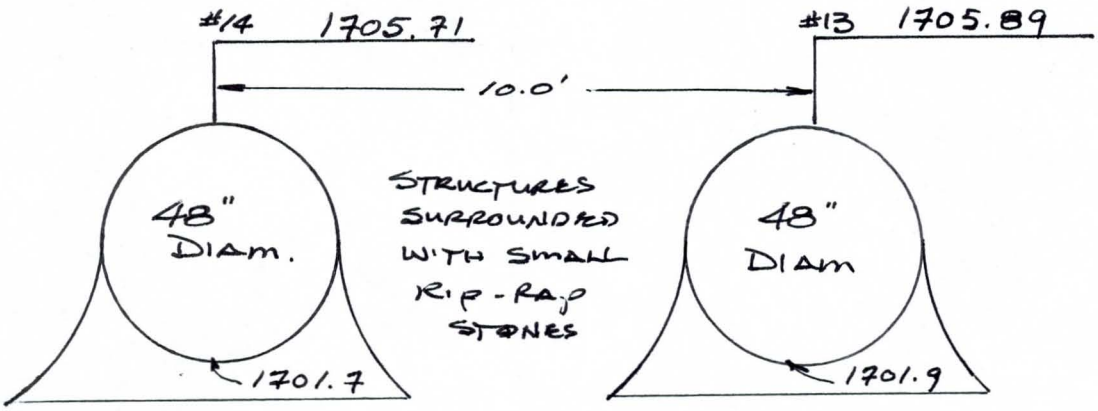
CH2685N.JPG

FCDMC Contract 2000C035
Task4- Upper New River Watershed
Structure Detail Worksheet
DTM, INC. Project #23017

Type of Structure: Double 48" CMP Date: 4.21.03
File Name: NEW RIVER Description Name: NEW RIVER ROAD mp 2.72
Party Chief: DAVE S. GDAC Control Pt # NR18

(~~UPSTREAM~~) NORTH

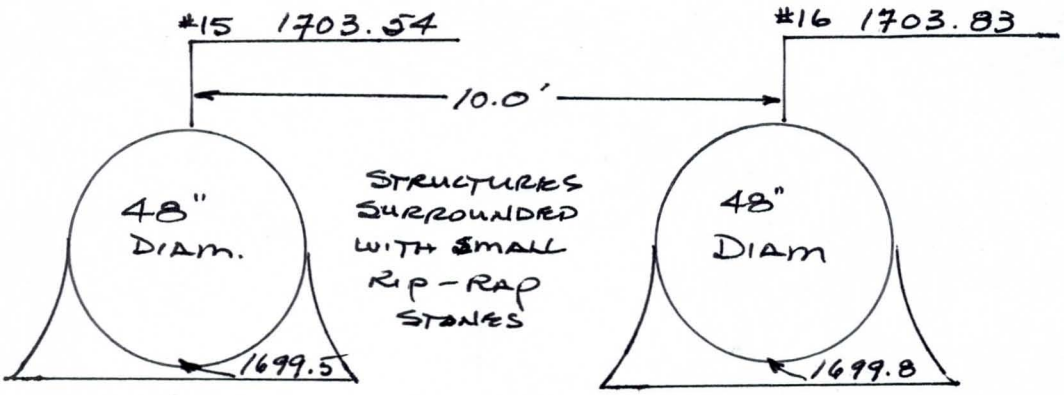
☒ Photo Taken NRR272N.JPG



General Condition of Structure GOOD

(~~DOWNSTREAM~~) SOUTH

☒ Photo Taken NRR272S.JPG



General Condition of Structure GOOD

NRR272S.JPG

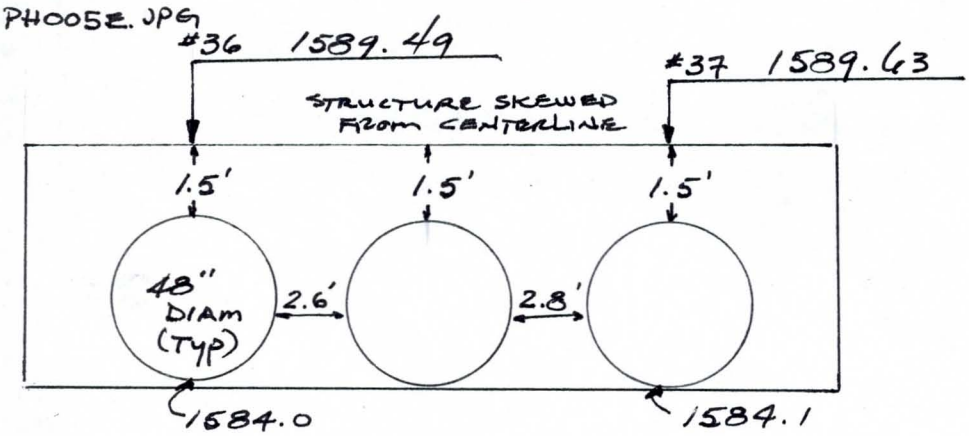
NRR272N.JPG

FCDMC Contract 2000C035
Task4- Upper New River Watershed
Structure Detail Worksheet
DTM, INC. Project #23017

Type of Structure: TRIPLE 48" CMP Date: 4.22.03
File Name: NEW RIVER Description Name: PLEASANT HARBOR mp 0.05
Party Chief: DAVE S. GDAC Control Pt # 1L82

(UPSTREAM) (EAST)

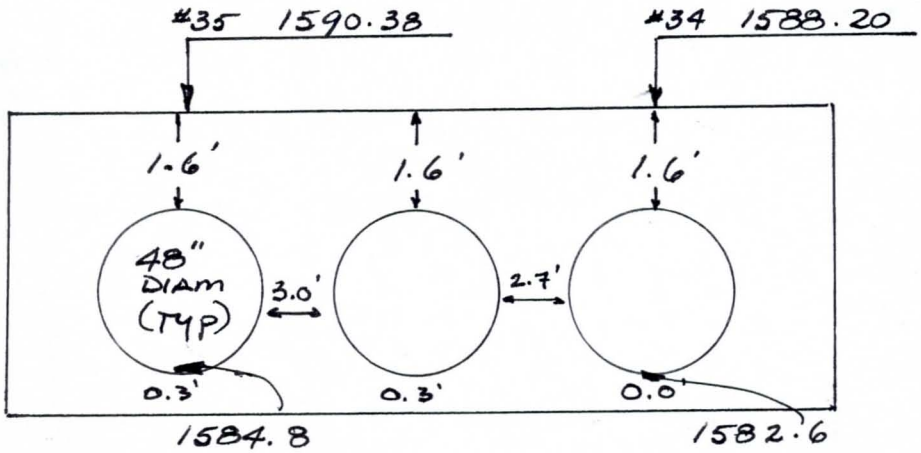
☒ Photo Taken PH005E.JPG



General Condition of Structure GOOD

(DOWNSTREAM) (WEST)

☒ Photo Taken PH005W.JPG



General Condition of Structure GOOD

PH005E.JPG

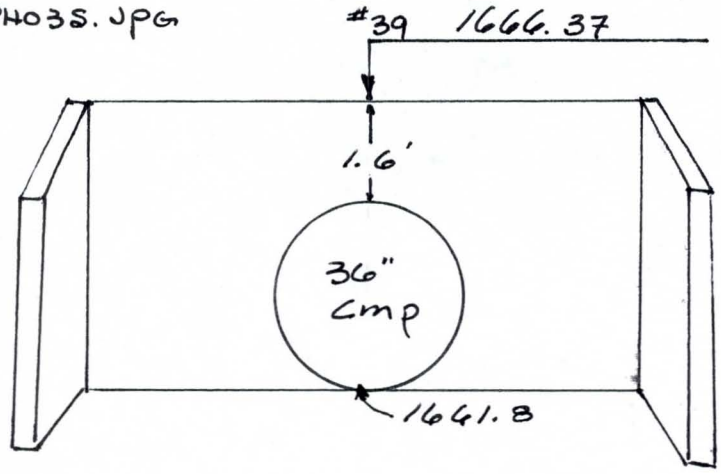
PH005W.JPG

FCDMC Contract 2000C035
Task4- Upper New River Watershed
Structure Detail Worksheet
DTM, INC. Project #23017

Type of Structure: 36" cmp Date: 4.22.03
File Name: NEW RIVER Description Name: PLEASANT HARBOR mp 0.3
Party Chief: DAVE S. GDAC Control Pt # 1LB2

(UPSTREAM) SOUTH

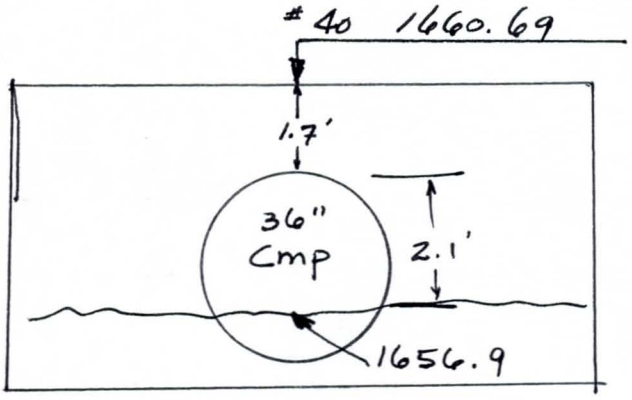
☒ Photo Taken PH03S.JPG



General Condition of Structure GOOD

PH03N.JPG (DOWNSTREAM) NORTH

☒ Photo Taken ~~PH03N.JPG~~



General Condition of Structure PARTIALLY FILLED WITH SAND/GRAVEL

PH03N.JPG

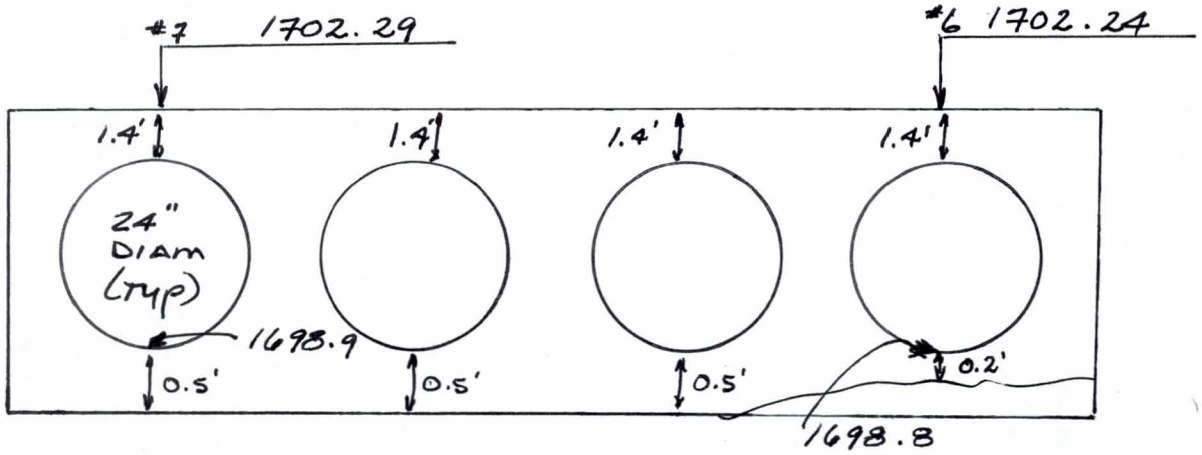
PH03S.JPG

FCDMC Contract 2000C035
Task4- Upper New River Watershed
Structure Detail Worksheet
DTM, INC. Project #23017

Type of Structure: 4-24" CMP Date: 4.21.03
File Name: NEW RIVER Description Name: PLEASANT HARBOR mp 0.8
Party Chief: DAVE S. GDAC Control Pt # NR18

~~(UPSTREAM)~~ (EAST)

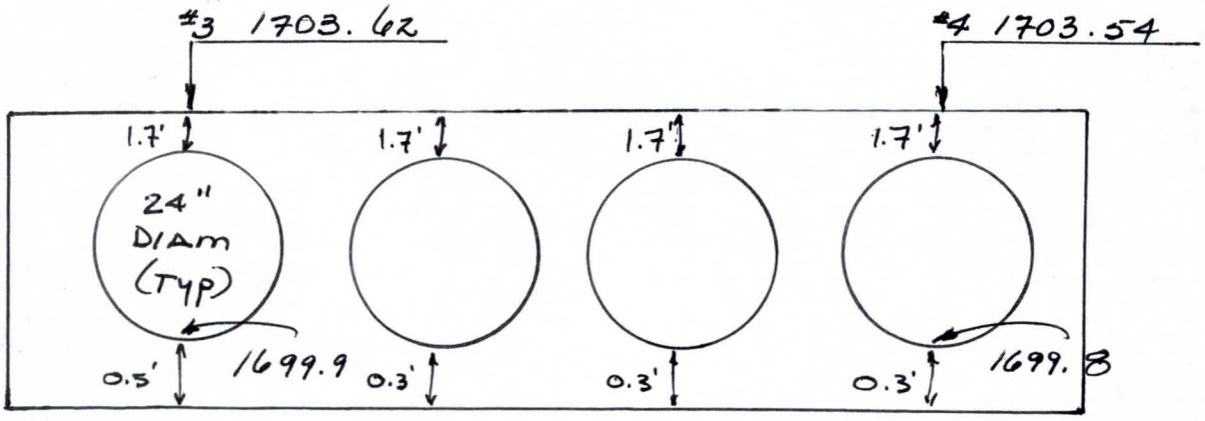
☒ Photo Taken PHOBE.JPG



General Condition of Structure GOOD

~~(DOWNSTREAM)~~ (WEST)

☒ Photo Taken PHOBW.JPG



General Condition of Structure GOOD

PHOBE.JPG

PH08W.JPG