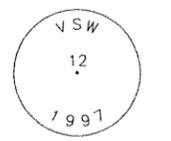


1997



Detail
Typical Stamped Aluminum Cap

SCALE:

1 inch = 200 Feet



LEGEND

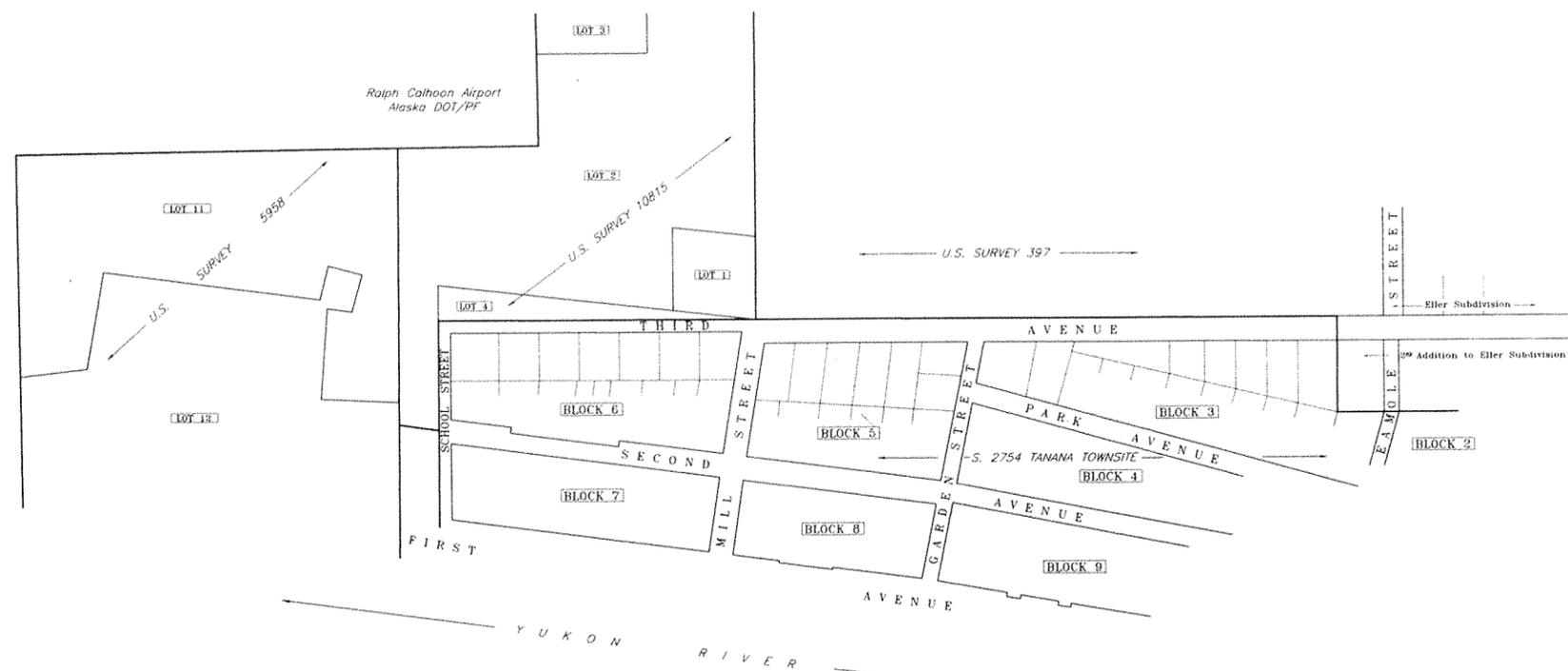
- ⊕ BLM Brass Capped or Driven Aluminum Rod Monument, Recovered
- ⊖ BLM Brass Capped or Driven Aluminum Rod Monument, of Record
- ⊕ Aluminum Pipe Monument, 2238-S, Recovered
- ⊙ No. 5 by 12 Inch Rebar with 1 1/2 Inch Diameter Aluminum Cap Marked as Shown in Typical Detail, Set This Survey.
- 10 Inch Spike, Set This Survey
- Survey Baseline Established This Survey
- 99.5 34 Shoulder of Gravel Roadway
- 99.0 0 Ditch of Gravel Roadway
- ⊕ TBM A Temporary Benchmark Location - Spike in Power Pole See Schedule on Sheet No. 7 for Description
- ⊕ TW-12-3 Test Well Location
- Wood Utility Pole (Overhead Distribution or Drop Lines Not Shown)
- Underground Telephone Box

SHEET SCHEDULE

- SHEET 1 Project Base Map, Legend, Notes, Schedule of Drawings
- SHEET 2 S. 2754 and S. 5958 Baseline Profiles
- SHEET 3 S. 10815, Topographic Survey Data
- SHEET 4 Third Avenue Survey Data - School Street to Mill Street
- SHEET 5 Third Avenue Survey Data - Mill Street to East of Garden Street
- SHEET 6 Third Avenue Survey Data - East of Garden Street to Earnale Street
- SHEET 7 Additional Profiles / Existing Wells to Airport Road, Control Point RP Data, TBM Schedule

NOTES

1. Monuments shown as recovered were not necessarily field tied this survey.
2. Lot, Block, and US Survey boundary lines are shown based on a combination of field and record dimensions.
3. Fuel tanks, decks, propane tanks, etc. are not shown for individual houses.
4. Elevations are based on TBM A, set by 6094-S during the 1996 survey for the CH2M Hill design of the effluent line. Record assumed elevation 101.77.
5. Main floor elevations for buildings may be somewhat approx. as most buildings were locked at time of survey.
6. Locations indicated as underground telephone wires (X TEL) were painted on the ground by Ralph Eller on 31 August, 1997, using a cable locator instrument. Lines shown between these points (---) represent our best attempt to display the pattern of these underground wires but cannot necessarily be considered complete or without error.

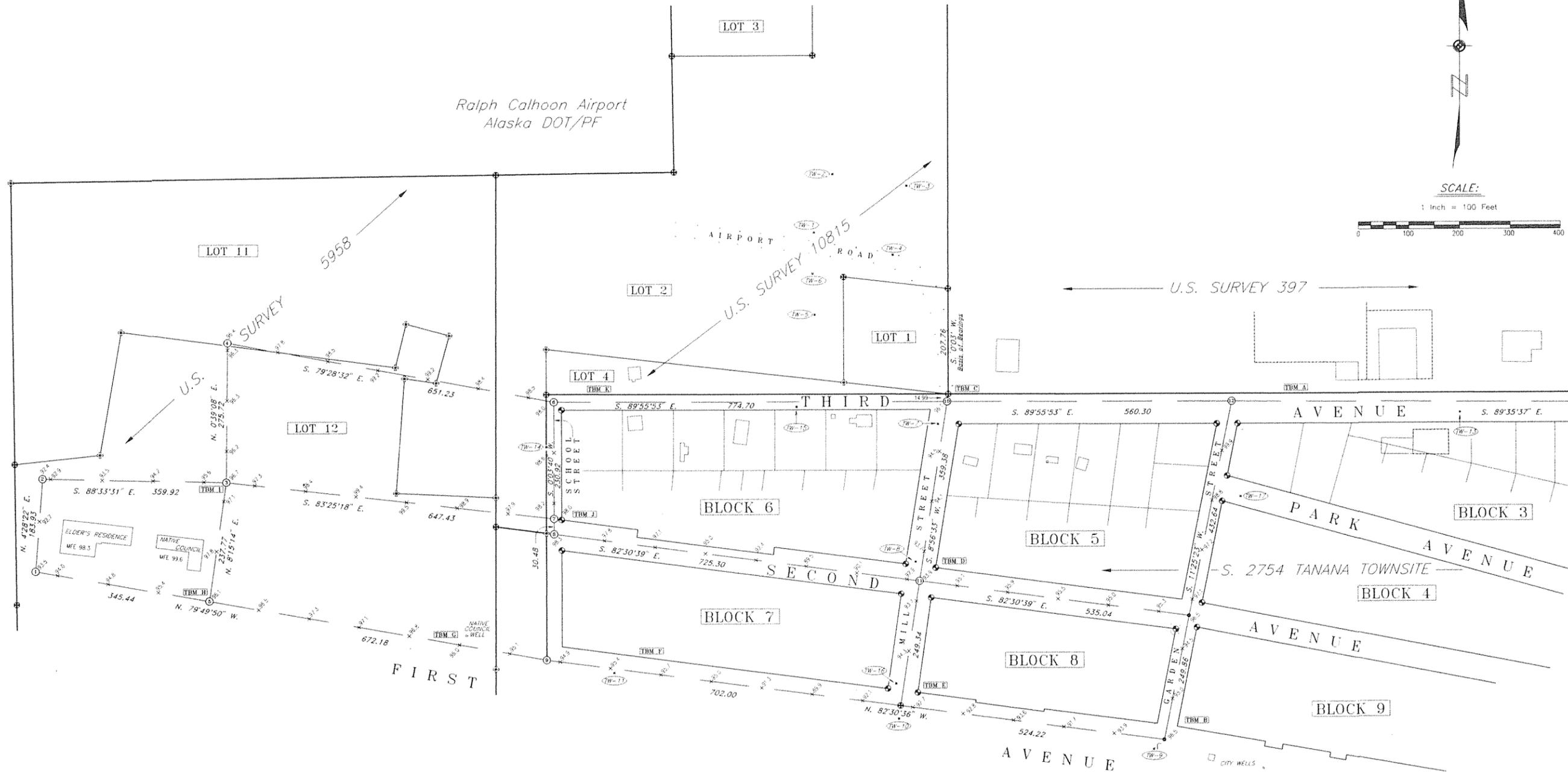


Water and Sewer Engineering Surveys
Tanana, Alaska

Prepared By:
Manley Land Surveyors, Inc.
P.O. Box 69
Manley Hot Springs, Alaska 99756
(907) 672-3632

Prepared For:
Too'gha, Inc.
Tanana, Alaska, and
ADEC Village Safe Water

Sheet No. One of Seven
Project Base Map and Schedule of Drawings
Date of Survey: August & September, 1997

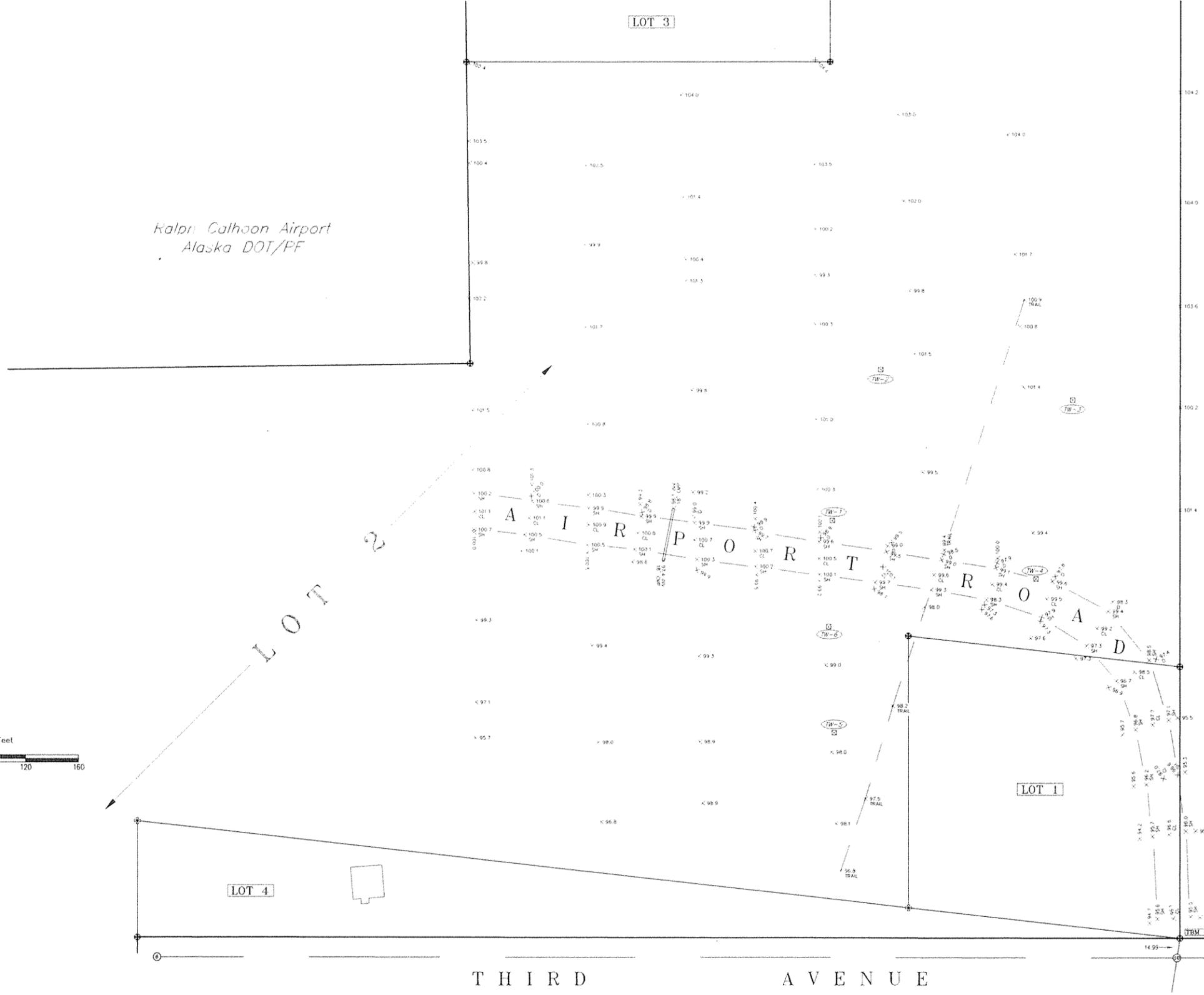


Water and Sewer Engineering Surveys
Tanana, Alaska

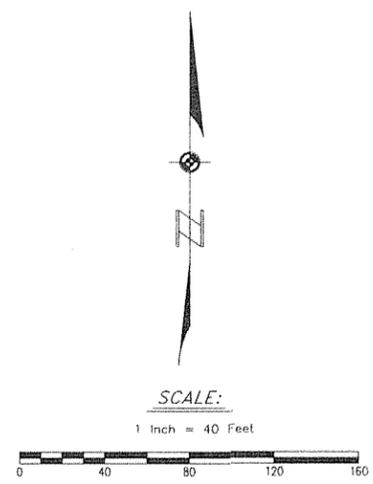
Prepared By:
Manley Land Surveyors, Inc.
P.O. Box 69
Manley Hot Springs, Alaska 99756
(907) 672-3632

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Too'gho, Inc.
Tanana, Alaska, and
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Sheet No. Two of Seven
S. 2754 and S. 5958 Baseline Profiles
Date of Survey: August & September, 1997



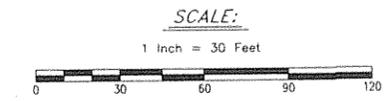
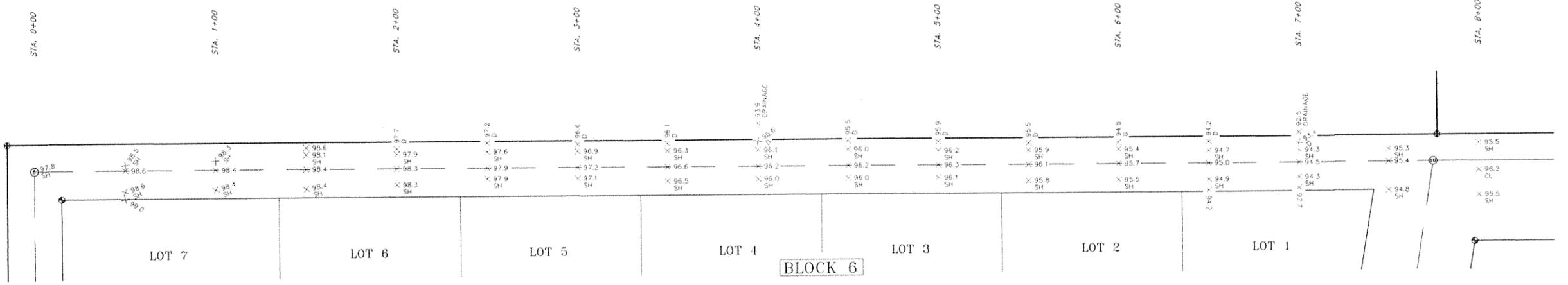
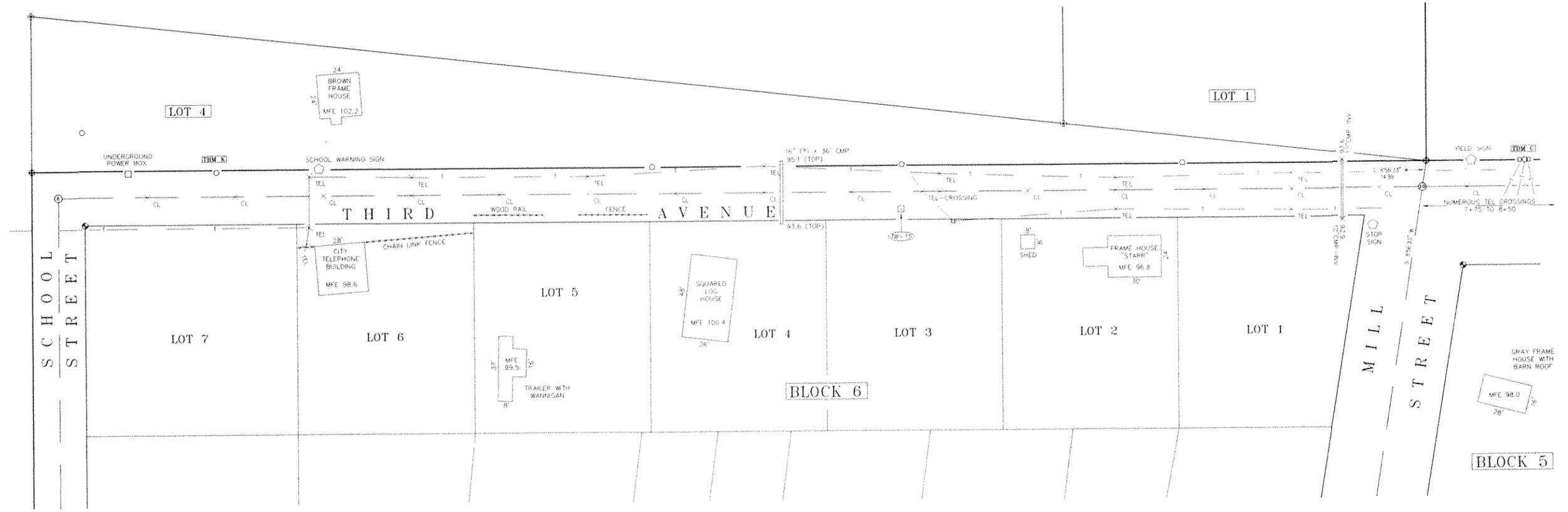
Kalpin Calhoon Airport
Alaska DOT/PF

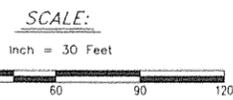


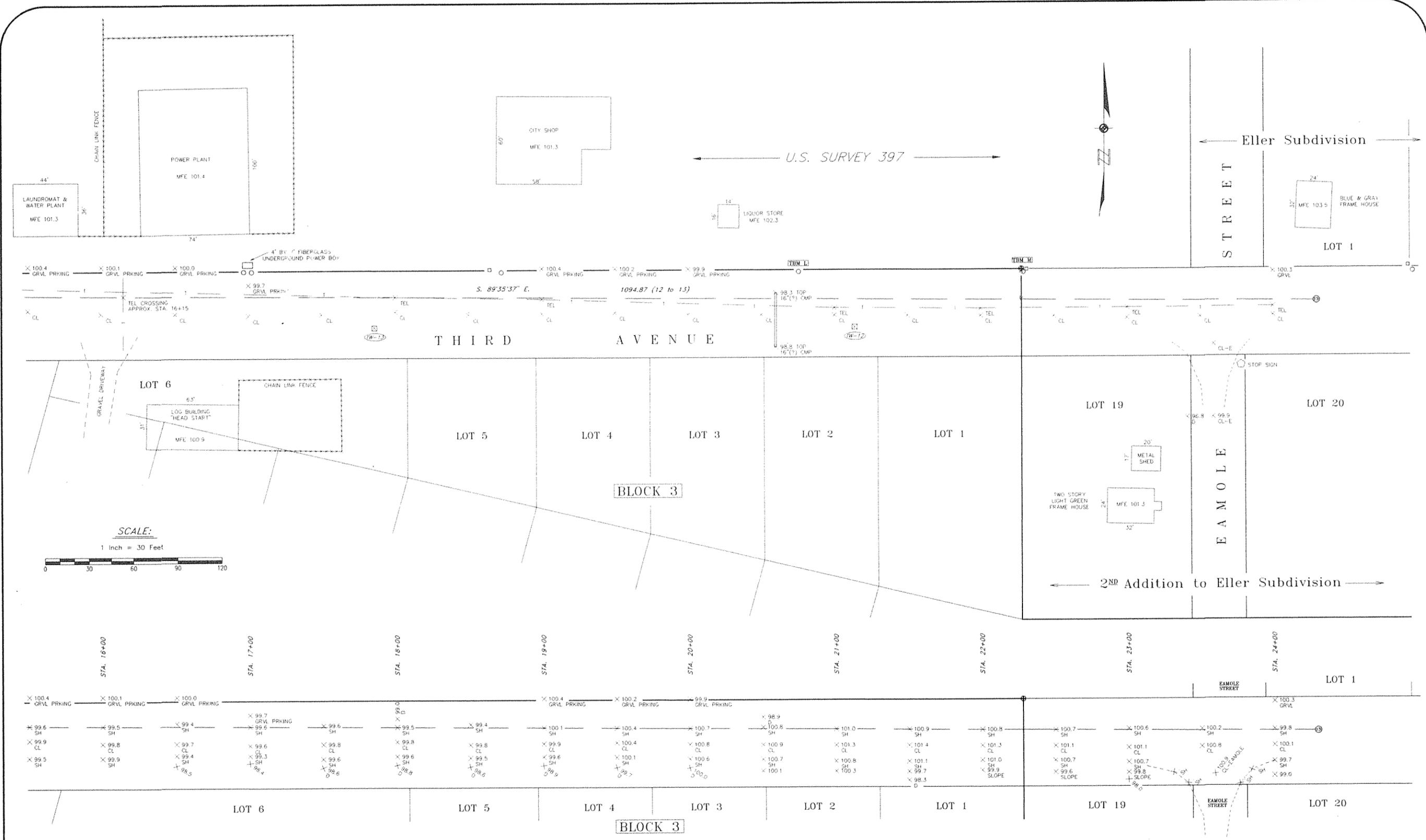
U.S. SURVEY 397

S. 0°03' W. 207.76
Basis of Bearings

THIRD AVENUE

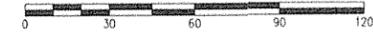






SCALE:

1 inch = 30 Feet



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P.O. Box 69
Manley Hot Springs, Alaska 99756
(907) 672-3632

Prepared For:
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Tanana, Alaska, and
ADEC Village Safe Water

Sheet No. Six of Seven
Third Avenue Survey Data - East of Garden Street to Eamole Street
Date of Survey: August & September, 1997

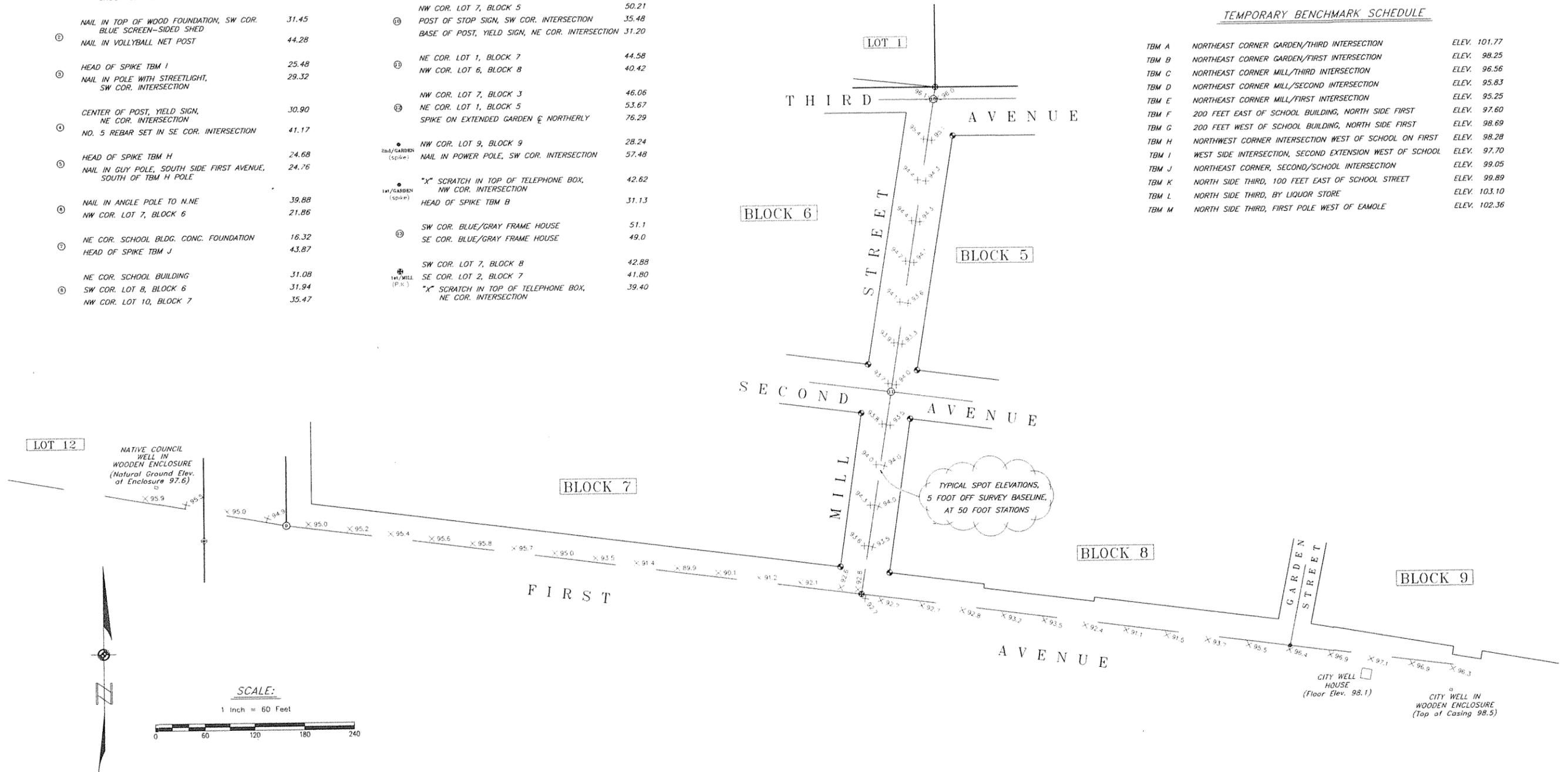
CONTROL POINT REFERENCES

① SW COR. CONC. SIDEWALK TO ELDER'S RESIDENCE	35.05	⑩ CENTER OF SW PIPE OF FENCE AROUND UTILIDOR	52.56
② NAIL IN WEST SIDE OF MOST WESTERLY OF GROUP OF POPLAR TREES BY RIVERBANK	83.21	⑪ CENTER OF PIPE SUPPORT FOR SATELLITE DISH	79.04
③ NAIL IN TOP OF WOOD FOUNDATION, SW COR. BLUE SCREEN-SIDED SHED	31.45	⑫ NW COR. LOT 7, BLOCK 5	50.21
④ NAIL IN VOLLYBALL NET POST	44.28	⑬ POST OF STOP SIGN, SW COR. INTERSECTION	35.48
⑤ HEAD OF SPIKE TBM I	25.48	⑭ BASE OF POST, YIELD SIGN, NE COR. INTERSECTION	31.20
⑥ NAIL IN POLE WITH STREETLIGHT, SW COR. INTERSECTION	29.32	⑮ NE COR. LOT 1, BLOCK 7	44.58
⑦ CENTER OF POST, YIELD SIGN, NE COR. INTERSECTION	30.90	⑯ NW COR. LOT 6, BLOCK 8	40.42
⑧ NO. 5 REBAR SET IN SE COR. INTERSECTION	41.17	⑰ NW COR. LOT 7, BLOCK 3	46.06
⑨ HEAD OF SPIKE TBM H	24.68	⑱ NE COR. LOT 1, BLOCK 5	53.67
⑩ NAIL IN GUY POLE, SOUTH SIDE FIRST AVENUE, SOUTH OF TBM H POLE	24.76	⑳ SPIKE ON EXTENDED GARDEN & NORTHERLY	76.29
⑪ NAIL IN ANGLE POLE TO N.NE NW COR. LOT 7, BLOCK 6	39.88	⑲ NW COR. LOT 9, BLOCK 9	28.24
⑫ NE COR. SCHOOL BLDG. CONC. FOUNDATION	16.32	⑳ NAIL IN POWER POLE, SW COR. INTERSECTION	57.48
⑬ HEAD OF SPIKE TBM J	43.87	㉑ "X" SCRATCH IN TOP OF TELEPHONE BOX, NW COR. INTERSECTION	42.62
⑭ NE COR. SCHOOL BUILDING	31.08	㉒ HEAD OF SPIKE TBM B	31.13
⑮ SW COR. LOT 8, BLOCK 6	31.94	㉓ SW COR. BLUE/GRAY FRAME HOUSE	51.1
⑯ NW COR. LOT 10, BLOCK 7	35.47	㉔ SE COR. BLUE/GRAY FRAME HOUSE	49.0
		㉕ SW COR. LOT 7, BLOCK 8	42.88
		㉖ SE COR. LOT 2, BLOCK 7	41.80
		㉗ "X" SCRATCH IN TOP OF TELEPHONE BOX, NE COR. INTERSECTION	39.40

Swings tie

TEMPORARY BENCHMARK SCHEDULE

TBM A	NORTHEAST CORNER GARDEN/THIRD INTERSECTION	ELEV. 101.77
TBM B	NORTHEAST CORNER GARDEN/FIRST INTERSECTION	ELEV. 98.25
TBM C	NORTHEAST CORNER MILL/THIRD INTERSECTION	ELEV. 96.56
TBM D	NORTHEAST CORNER MILL/SECOND INTERSECTION	ELEV. 95.63
TBM E	NORTHEAST CORNER MILL/FIRST INTERSECTION	ELEV. 95.25
TBM F	200 FEET EAST OF SCHOOL BUILDING, NORTH SIDE FIRST	ELEV. 97.60
TBM G	200 FEET WEST OF SCHOOL BUILDING, NORTH SIDE FIRST	ELEV. 98.69
TBM H	NORTHWEST CORNER INTERSECTION WEST OF SCHOOL ON FIRST	ELEV. 98.28
TBM I	WEST SIDE INTERSECTION, SECOND EXTENSION WEST OF SCHOOL	ELEV. 97.70
TBM J	NORTHEAST CORNER, SECOND/SCHOOL INTERSECTION	ELEV. 99.05
TBM K	NORTH SIDE THIRD, 100 FEET EAST OF SCHOOL STREET	ELEV. 99.89
TBM L	NORTH SIDE THIRD, BY LIQUOR STORE	ELEV. 103.10
TBM M	NORTH SIDE THIRD, FIRST POLE WEST OF EAMOLE	ELEV. 102.36



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Sheet No. Seven of Seven
Additional Profiles / Existing Wells to Airport Road
Control Point RP Data, TBM Schedule
Date of Survey: August & September, 1997