CONSTRUCTION PLANS

SANITATION FACILITIES

ST. PAUL, ALASKA

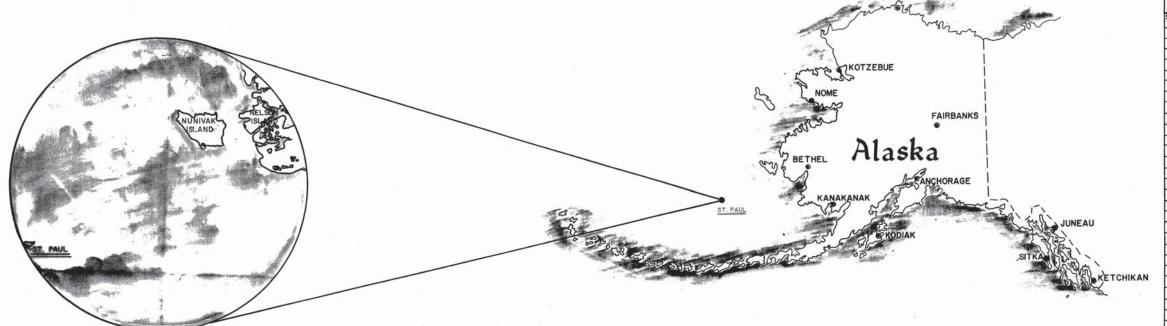


TABLE OF CONTENTS AERIAL PHOTO -5 WATER & SEWER SYSTEM SITE PLAN C-6 SEWER MAIN PROFILES C-IO SEPTIC TANK DETAILS -16 LIFT STATION PAD & PUMP SYSTEM INFORMA 7 WATER & SEWER STANDARD DETAILS

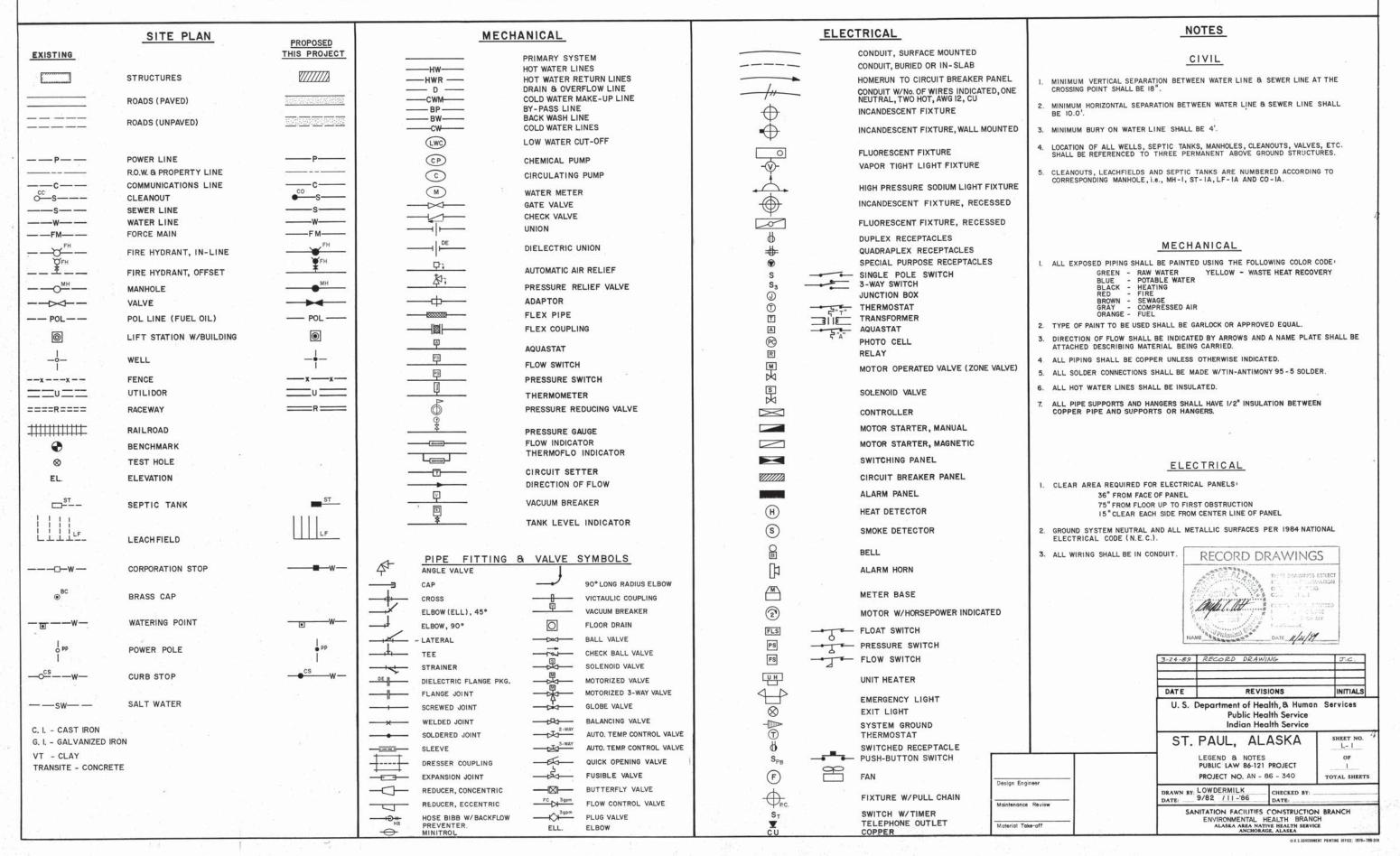
ALASKA AREA NATIVE HEALTH SERVICE ENVIRONMENTAL HEALTH BRANCH 70I C STREET BOX 65 ANCHORAGE, ALASKA 99510

PUBLIC LAW 86-121 PROJECT PROJECT NO. AN-86-340

U. S. DEPT. OF HEALTH & HUMAN SERVICES
PUBLIC HEALTH SERVICE
INDIAN HEALTH SERVICE



LEGEND AND GENERAL NOTES









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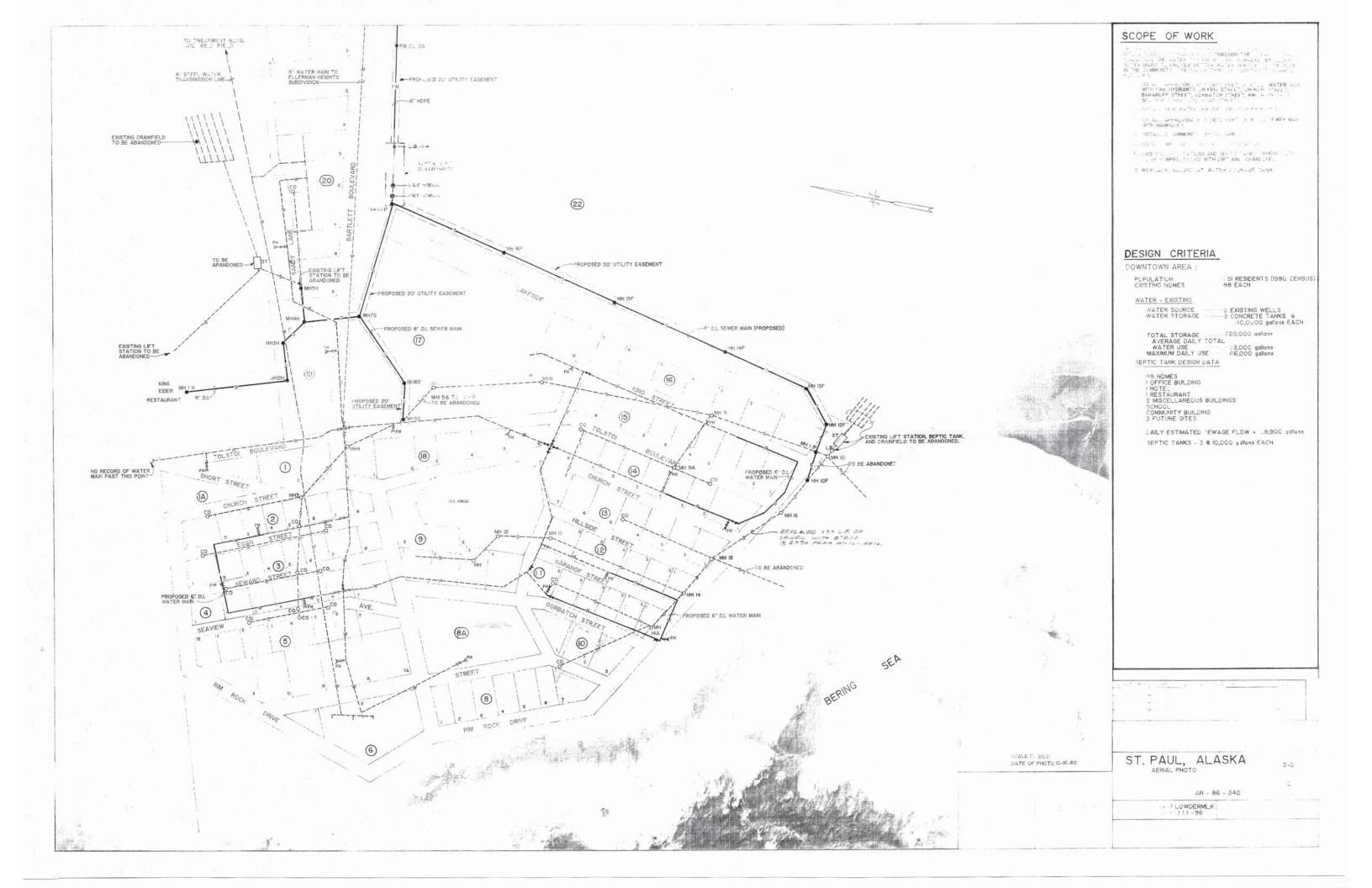
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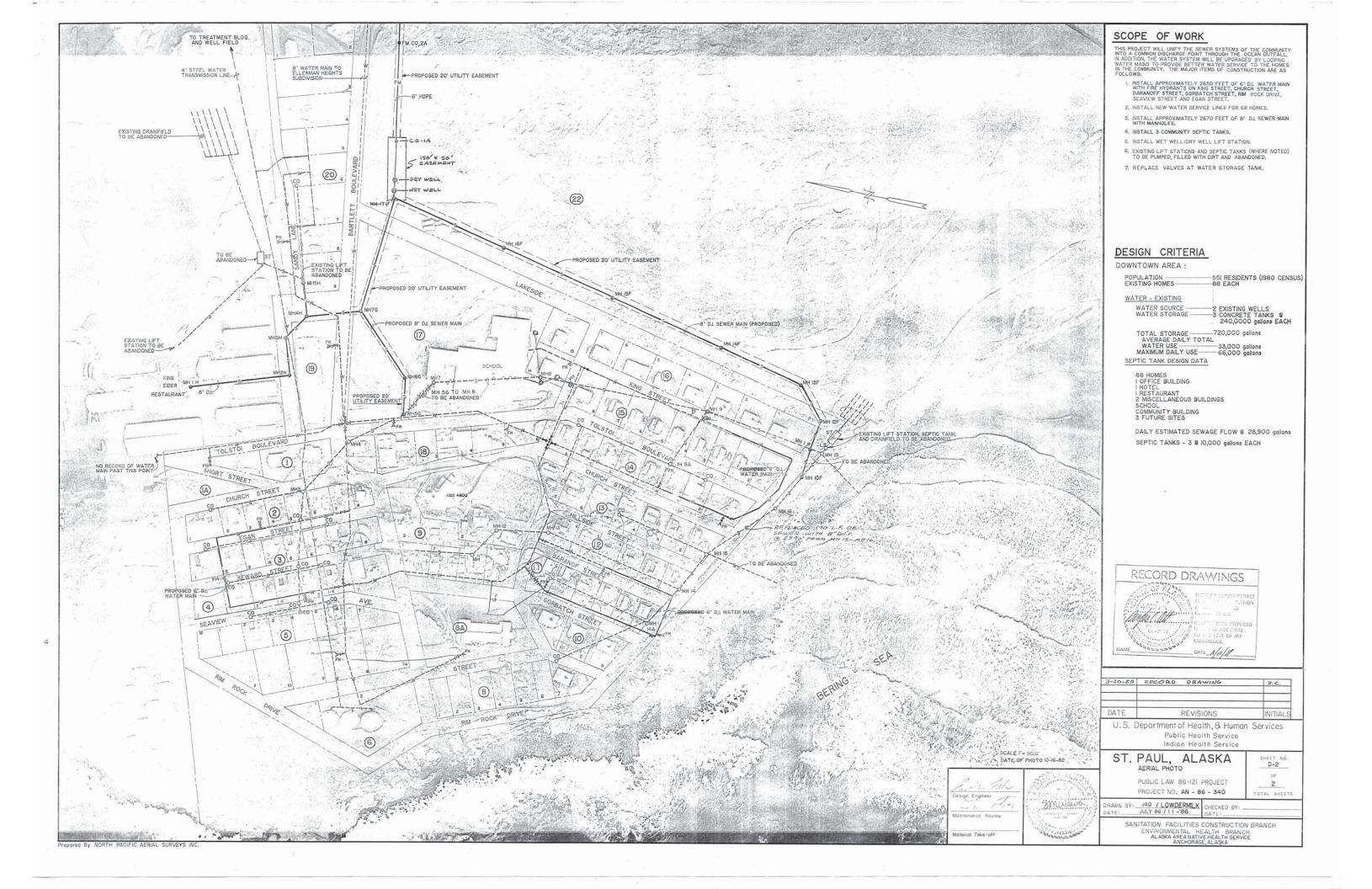
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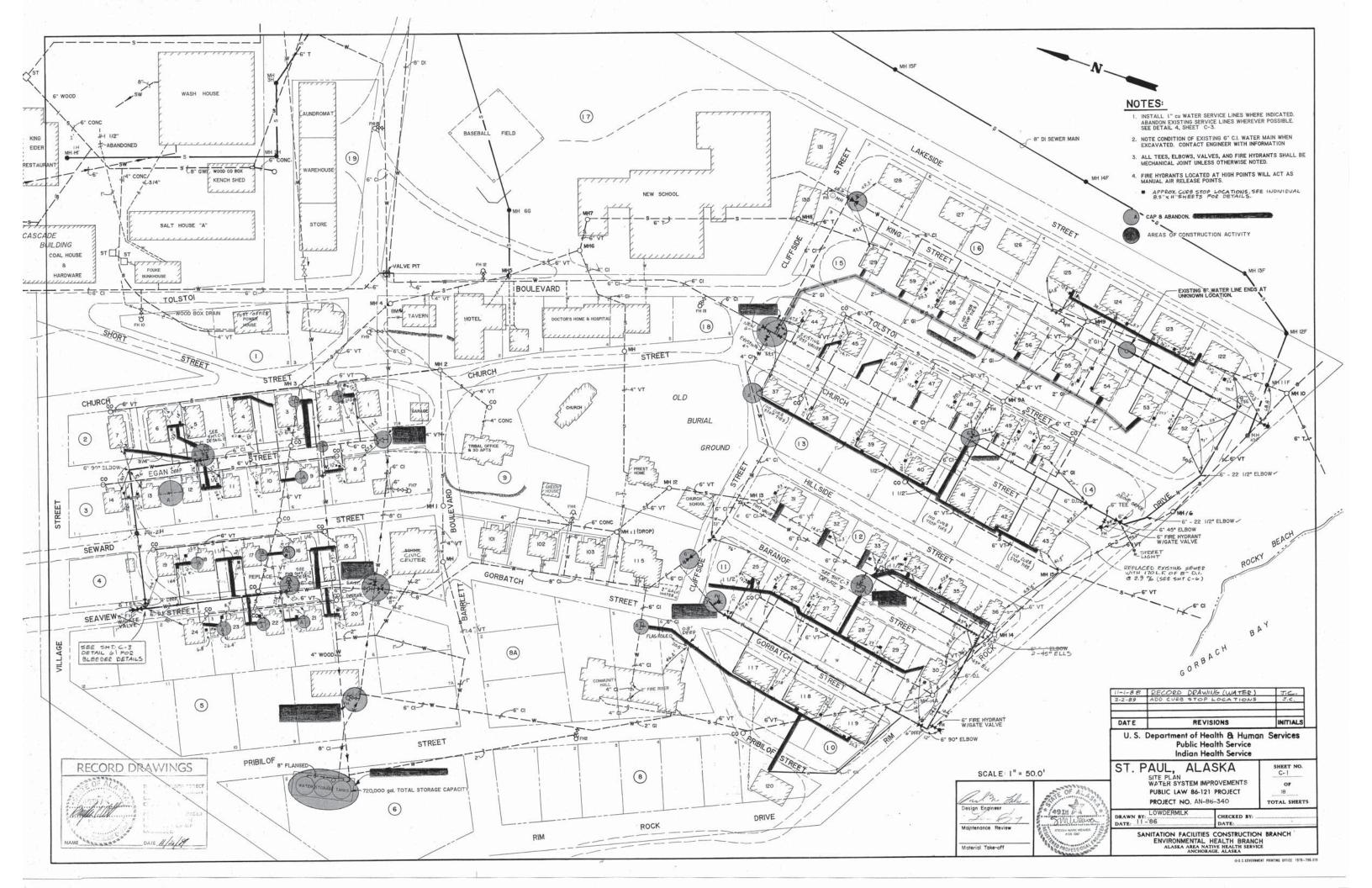
PUBLIC LAW 86-121 PROJECT PROJECT NO. AN - 86 - 340 Y: PCS / LOWDERMILK C30/85 / 11 - '86 CHECKED BY:

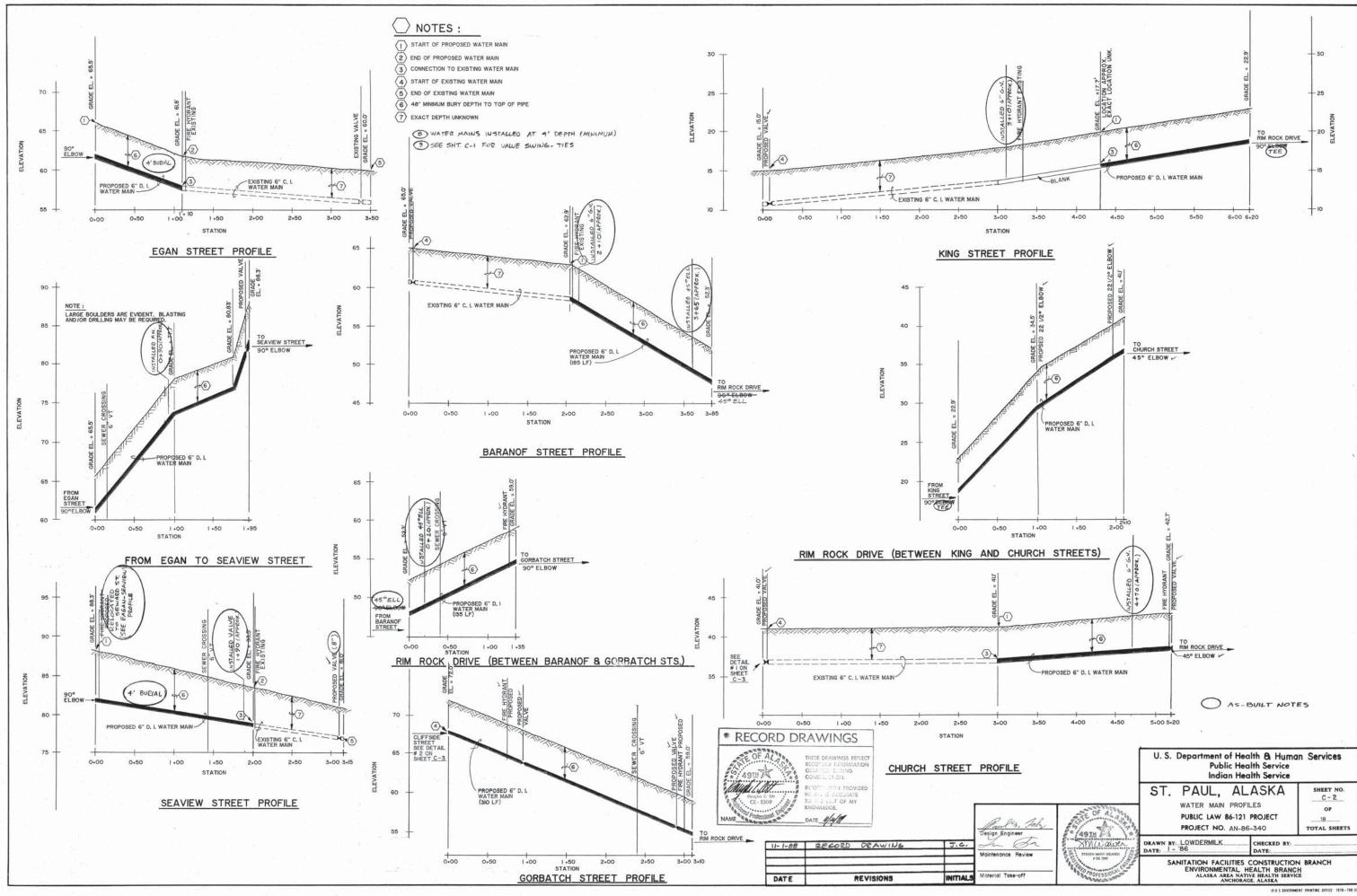
SANITATION FACILITIES CONSTRUCTION BRANCH ENVIRONMENTAL HEALTH BRANCH ALASKA AREA NATIVE HEALTH SERVICE ANCHORAGE, ALASKA

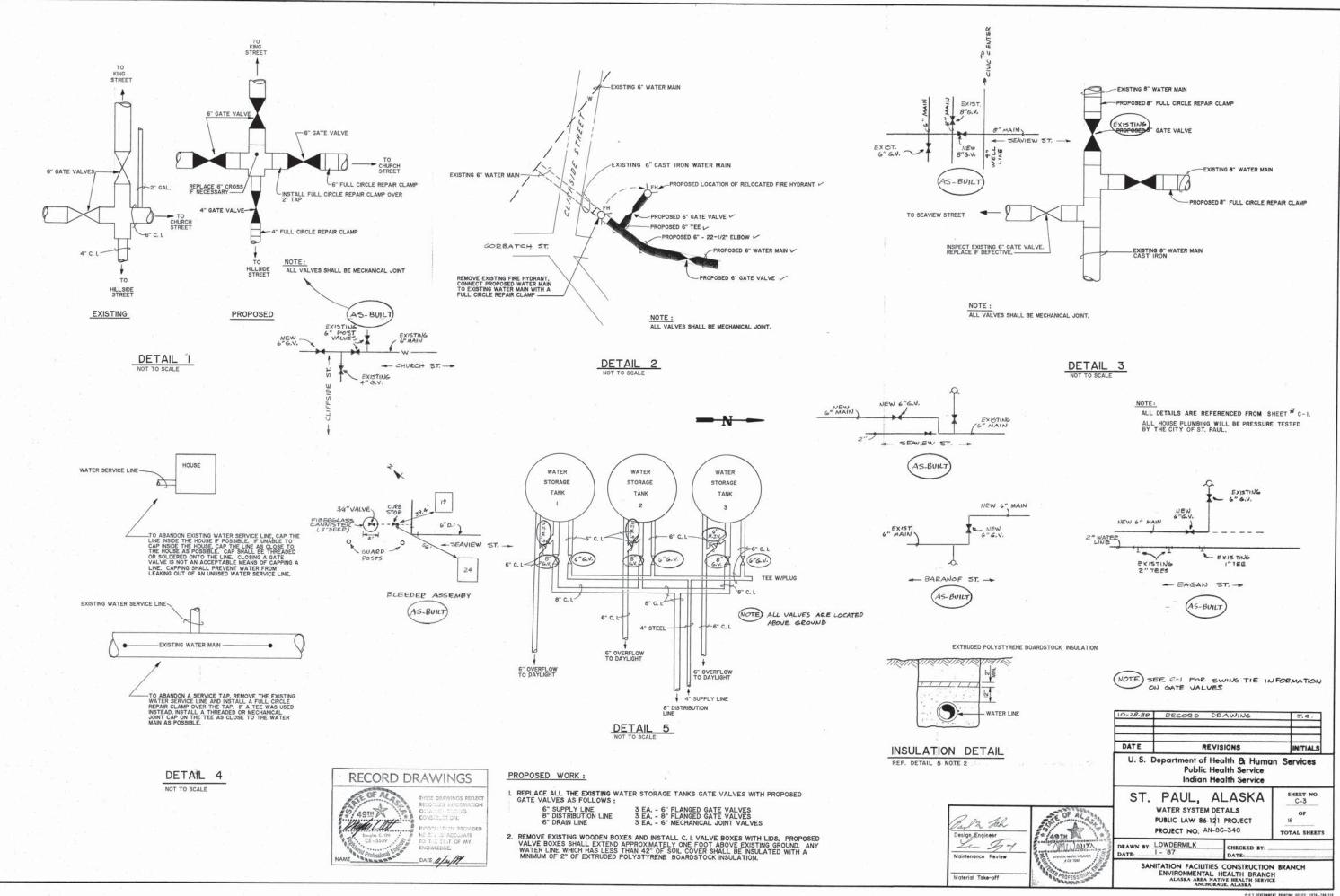
Prepared By NORTH PACIFIC AERIAL SURVEYS INC.

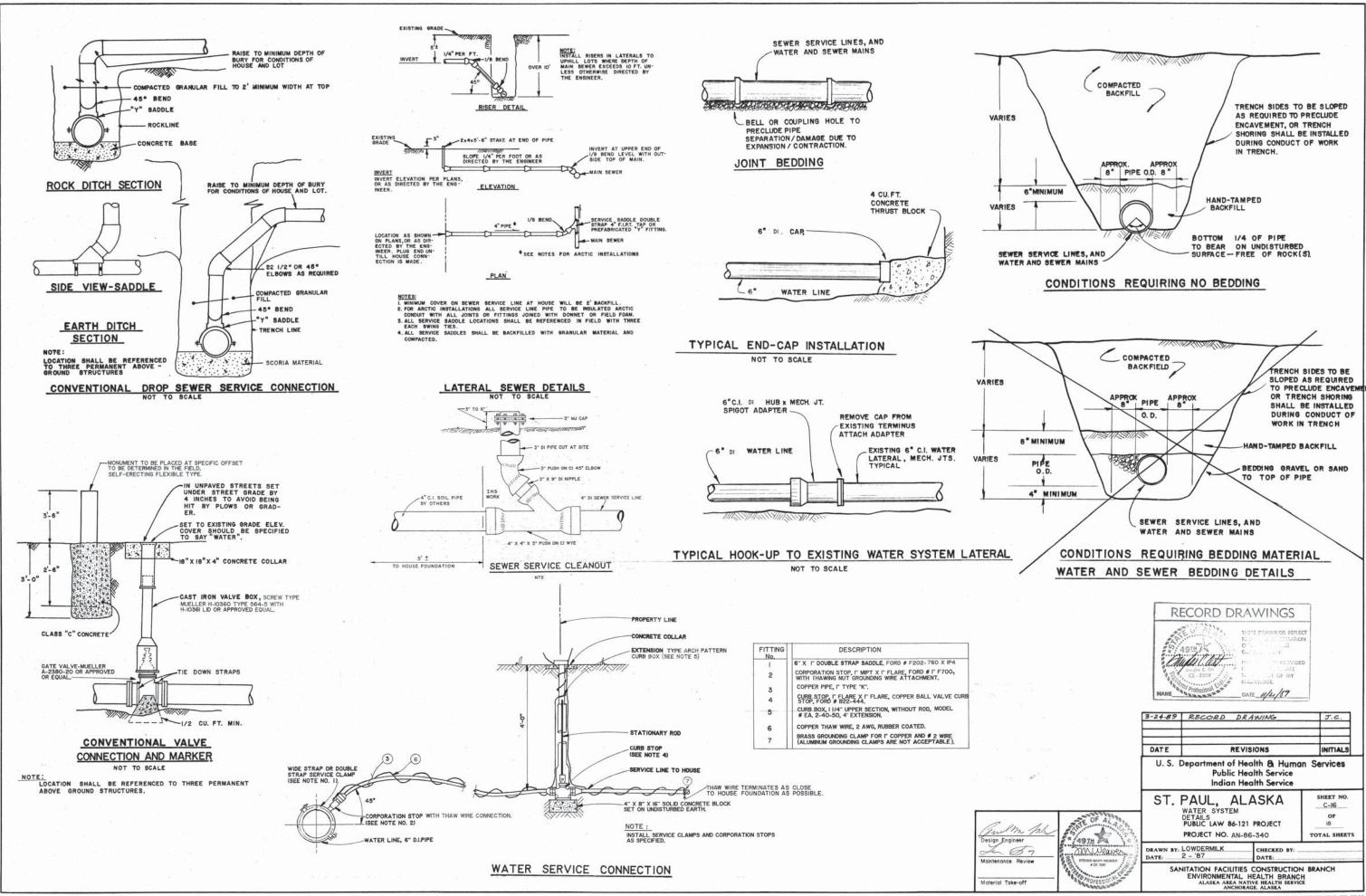


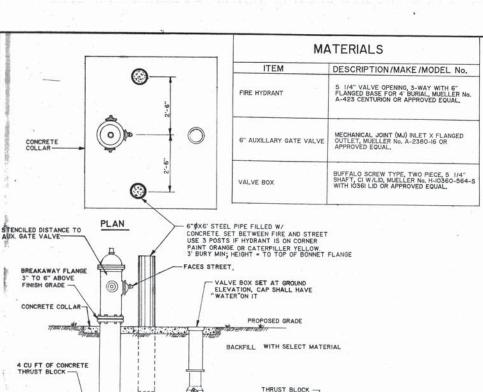






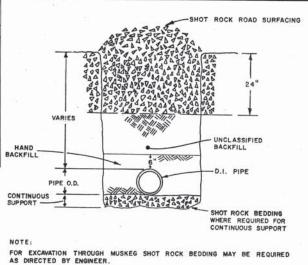




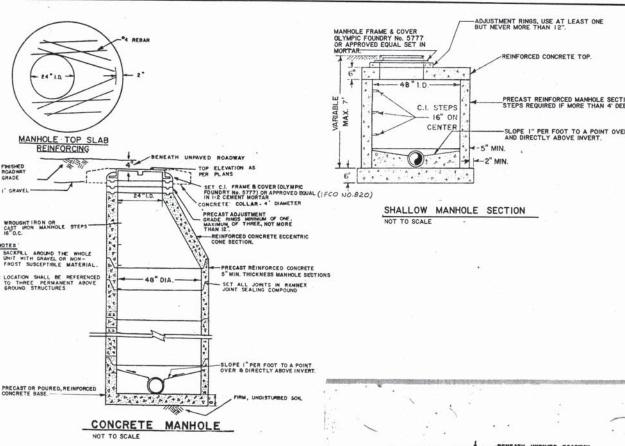


WATER MAIN GATE VALVE, 6

- 3/8" STEEL ROD



CONVENTIONAL TRENCH SECTION THROUGH ROCK EXCAVATION FOR DUCTILE IRON PIPE NOT TO SCALE



THRUST BLOCK MINIMUM SIZE TABLE

CONVENTIONAL FIRE HYDRANT

	WATER PRESSURE IN PIPE (p.s.l.)				
PIPE DIAM. (In.)	50		150		
	BEARING AREA (sq. ft.)	CONCRETE VOLUME (cu. ft.)	BEARING AREA (sq. ft.)	CONCRETE VOLUME (cu. ft.)	
2	0.5	0.5	0.8	1.0	
4	0.8	1.0	1.6	3.1	
- 6	1.0	1.3	1.9	4.0	
8	1.1	1.5	3.2	7.0	
10	1.7	3.2	4.9	10.0	
	FOR E	ENDS 45° OR	LESS.		
2	0.5	0.5	0.5	0.5	
4	0.5	0.5	0.9	1.1	
6	0.6	0.8	1.2	2.0	
8	0.8	1.0	1.8	3.6	
10	1.0	1.3	2.7	5.8	

NOTES:

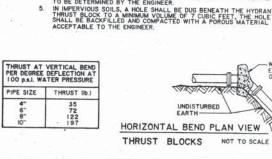
UNDISTURBED EARTH

DO NOT BLOCK -

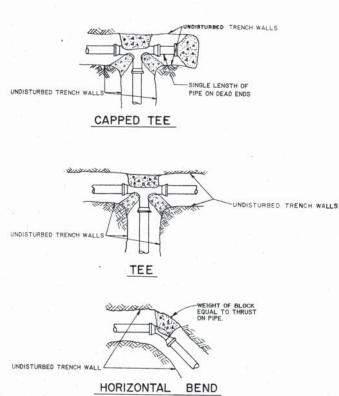
- THRUST BLOCKS ARE TO BE POURED IN PLACE BETWEEN THE FITTING AND UNDISTURBED TRENCH WALL.
 CONCRETE SHALL BE KEPT BEHIND BELL OF FITTING SO AS NOT TO OBSTRUCT THE JOINT.
 THRUST BLOCKS ARE REQUIRED WHENEVER PIPE-LINE CHANGES DIRECTION, CHANGES SIZE, DEAD ENDS, OR DEVELOPS THRUST AT VALVES.

- VALVES

 MATERIAL BEHIND THE THRUST BLOCKS, DEEMED INADEQUATE BY THE
 ENGINEER SHALL BE REMOVED AND REPLACED BY A BALLAST
 MATERIAL, THE EXTENT AND QUALITY OF REPLACEMENT MATERIAL
 TO BE DETERMINED BY THE ENGINEER.
 IN IMPERVIOUS SOILS, A HOLE SHALL BE DUG BENEATH THE HYDRANT
 THRUST BLOCK TO A MINIMUM VOLUME OF 7 CUBIC FEET, THE HOLE
 SHALL BE BACKFILLED AND COMPACTED WITH A POROUS MATERIAL
 ACCEPTABLE TO THE ENGINEER.

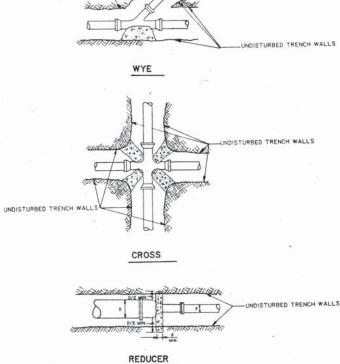




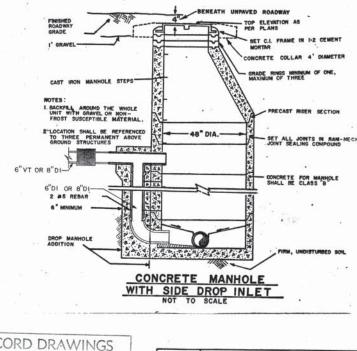


PLAN VIEW

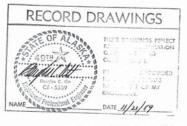
THRUST BLOCKS



UNDISTURBED TRENCH WALLS



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Indian Health Service ST. PAUL, ALASKA WATER & SEWER STANDARD DETAILS PUBLIC LAW 86-121 PROJECT PROJECT NO. AN-86-340 TOTAL SHEETS DRAWN BY: LOWDERMILK SANITATION FACILITIES CONSTRUCTION BRANCH ENVIRONMENTAL HEALTH BRANCH ALASKA AREA NATIVE HEALTH SERVICE ANCHORAGE, ALASKA

REVISIONS

U. S. Department of Health & Human Services

Public Health Service

DISTURBED TRENCH WALLS

PLAN

THRUST **BLOCKS** SHEET NO. C-17

OF