

CONVENTIONAL SIGNS

STATE LINE	-----	TIMBER	-----
COUNTY LINE	-----	BRUSH	-----
TOWNSHIP OR RANGE LINE	-----	ORCHARD	-----
SECTION LINE	-----	ROCK LEDGE	-----
QUARTER LINE	-----	SAND	-----
SIXTEENTH LINE	-----	EDGE OF CUT	-----
RIGHT-OF-WAY LINE	-----	TOE OF EMBANKMENT	-----
PRESENT ROAD 1/2 LINE	-----	CATCH BASIN	-----
LIMITED ACCESS	-----	MANHOLE	-----
PROPERTY LINE (Except Land Lines)	-----	DROP INLET	-----
VACATED PLATTED PROPERTY	-----	FIRE HYDRANT	-----
CORPORATE OR CITY LIMITS	-----	ARC LAMP	-----
TRUNK HIGHWAY CENTER LINE	-----	OTHER LAMPS (State Kind)	-----
RETAINING WALL	-----	RAILROAD CROSSING SIGN	-----
STEAM RAILROAD	-----	RAILROAD CROSSING BELL	-----
ELECTRIC RAILROAD	-----	ELECTRIC WARNING SIGN	-----
RAILROAD RIGHT-OF-WAY LINE	-----	CROSSING GATE	-----
CREEK	-----	CATTLE GUARD	-----
RAPIDS OR WATERFALL	-----	OVERHEAD (Highway Over)	-----
DRY RUN	-----	UNDERPASS (Highway Under)	-----
DRAINAGE DITCH	-----	ABUTMENT, WALL & PIER	-----
HIGH TENSION LINE	-----	BRIDGE	-----
POWER POLE LINE	-----	CULVERT	-----
TELEPHONE OR TELEGRAPH LINE	-----	BUILDING (One Story Frame)	-----
TELEPHONE CONDUIT	-----	C-CONCRETE S-STONE T-TILE B-BRICK ST-STUCCO	-----
GUARD RAIL	-----	HEDGE	-----
WIRE FENCE	-----	IRON PIPE	-----
RAILROAD SNOW FENCE	-----	STONE MONUMENT	-----
BOARD OR HIGHWAY SNOW FENCE	-----	WOOD STAKE OR HUB	-----
STONE WALL OR FENCE	-----	MEANDER CORNER	-----
GAS MAIN	-----		
WATER PIPE	-----		
SEWER PIPE	-----		
DRAIN TILE	-----		
GRAVEL PIT	-----		
SAND PIT	-----		
CLAY PIT	-----		
ROCK QUARRY	-----		
SPRINGS	-----		
MARSH	-----		

**OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY**
CONSTRUCTION PLAN FOR GRADING AND STABILIZING
HALLOWAY AVENUE
RAMSEY COUNTY PROJECT NO. 55-56D
FROM EAST AVENUE TO EAST COUNTY LINE ROAD (T.H.100)

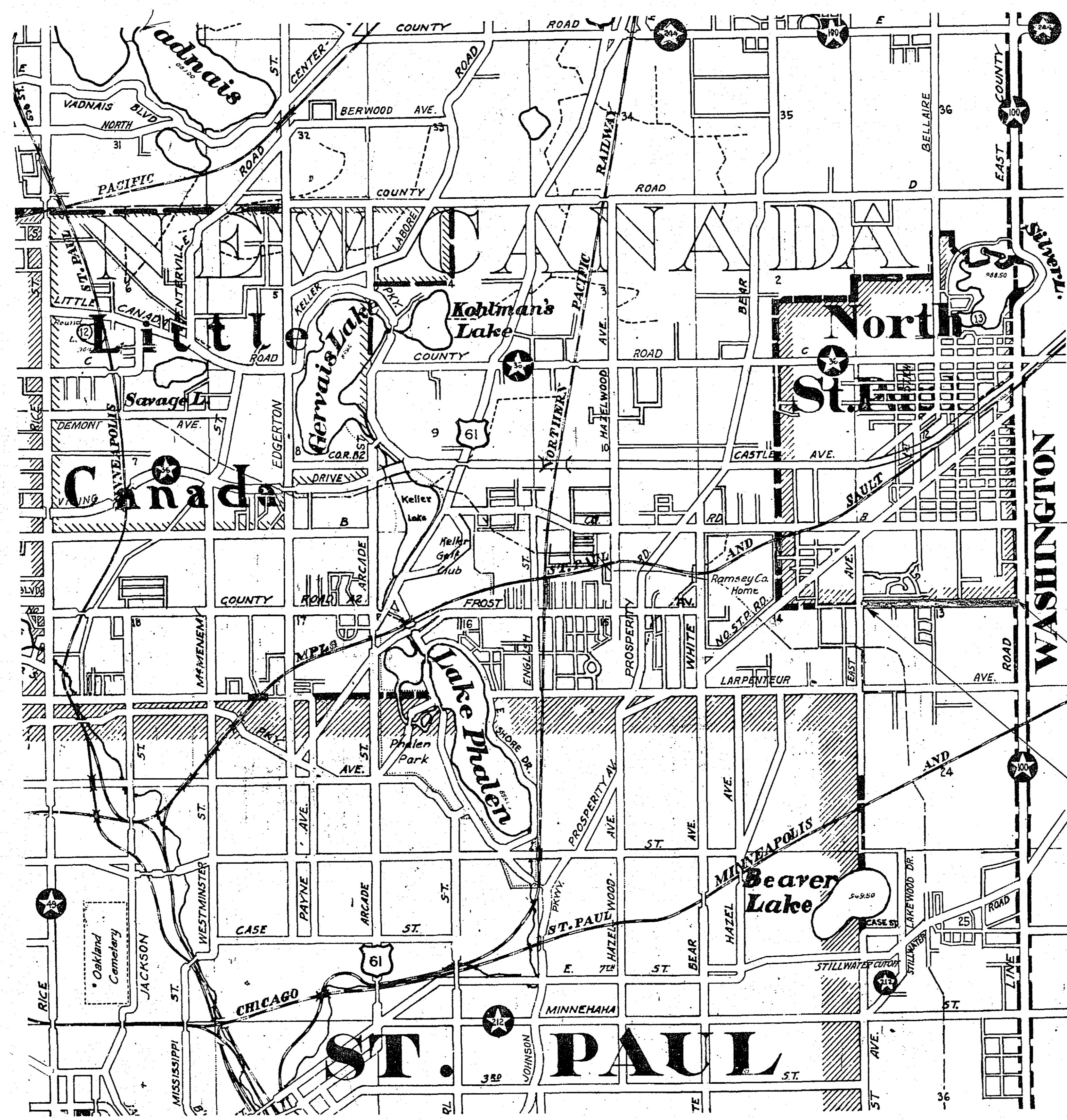
GROSS LENGTH	5223	FEET	0.989	MILES
BRIDGES-LENGTH	0	FEET	0	MILES
EXCEPTIONS-LENGTH	0	FEET	0	MILES
NET LENGTH	5223	FEET	0.989	MILES

INDEX

SHEET NO.	DESCRIPTION
1	LAYOUT MAP AND TITLE SHEET
2	ESTIMATE AND MISC. DETAILS
3	WATER MAIN DETAILS
4&5	PLAN AND PROFILE
6-10	CROSS SECTIONS

SCALES

PLAN, 1 inch = 100 Feet
PROFILE, Horiz. 1 inch = 100 Feet. Vert. 1 inch = 10 Feet.
WORKING PLANS - (Horiz. 1 inch = 100 Feet. Vert. 1 inch = 10 Feet)
Cross-Sections 1 inch = 10 Feet
LAYOUT, 1 inch = 2640 Feet



NOTE: SECTION NUMBERS READ FROM THE SOUTH

PIT DATA

PIT NO.	Located in
.....	Dead Haul
PIT NO.	Located in
.....	Dead Haul
PIT NO.	Located in
.....	Dead Haul
PIT NO.	Located in
.....	Dead Haul

SPECIFICATIONS

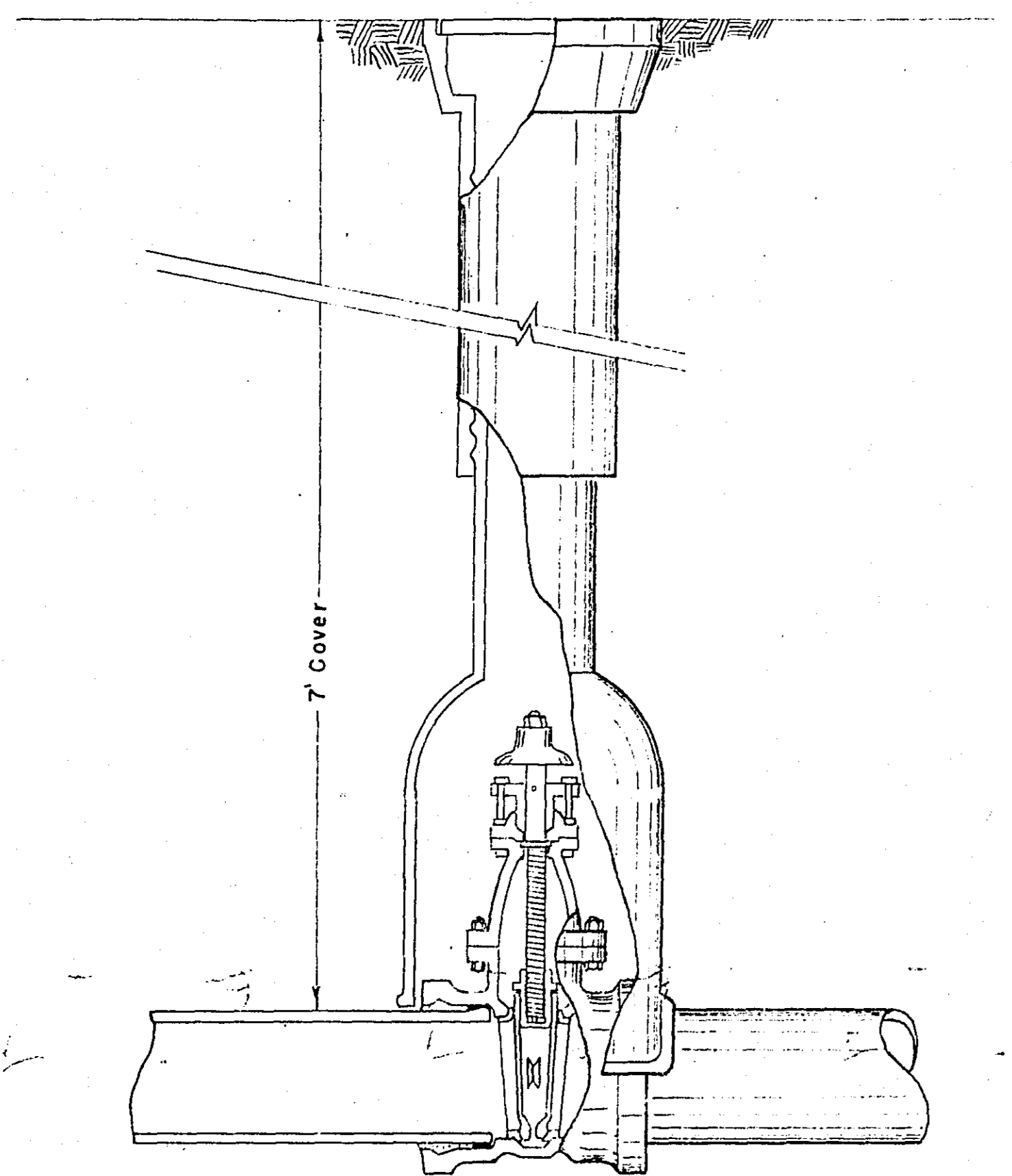
THE "SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED JULY 1, 1947 AND SUBMITTED FOR APPROVAL BY THE DIVISION ENGINEER OF THE BUREAU OF PUBLIC ROADS ON OCTOBER 15, 1947, AS MODIFIED BY "SUPPLEMENT 1" THERE TO DATED APRIL 15, 1953 AND SUBMITTED FOR APPROVAL BY THE DIVISION ENGINEER OF THE BUREAU OF PUBLIC ROADS ON MARCH 25, 1953, SHALL GOVERN.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

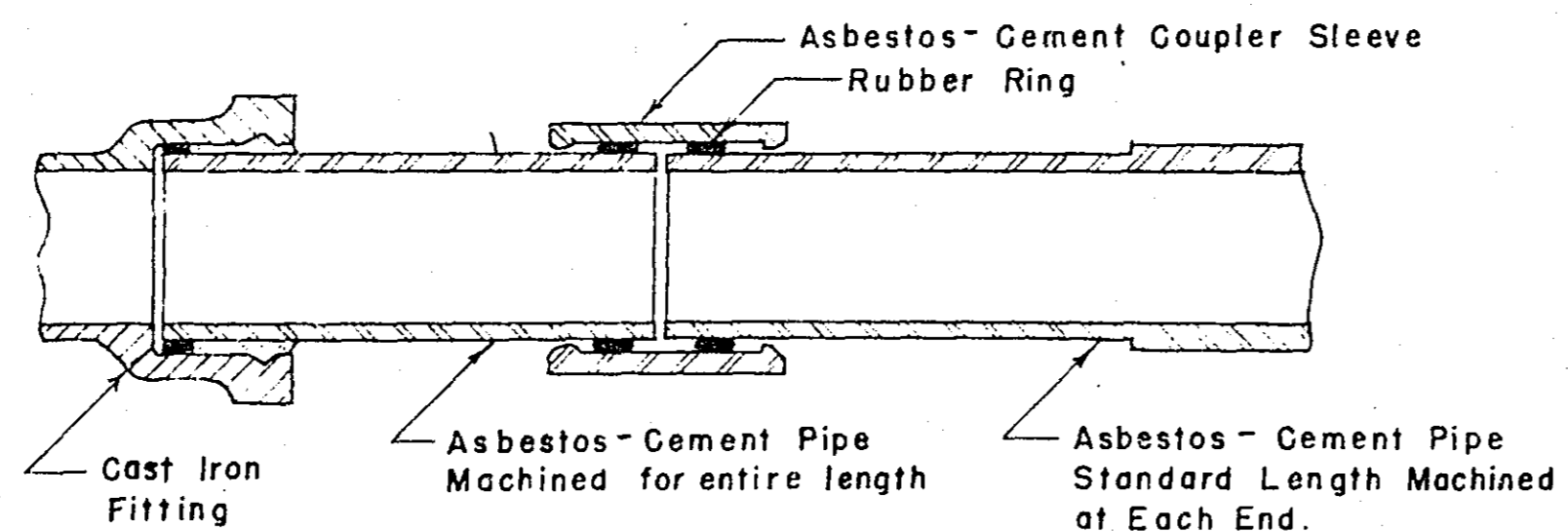
Harry A. Brennan COUNTY ENGINEER REG. NO. 818 DATE 4/7/55

RECOMMENDED FOR APPROVAL *Harry A. Brennan* COUNTY ENGINEER DATE 4/7/55

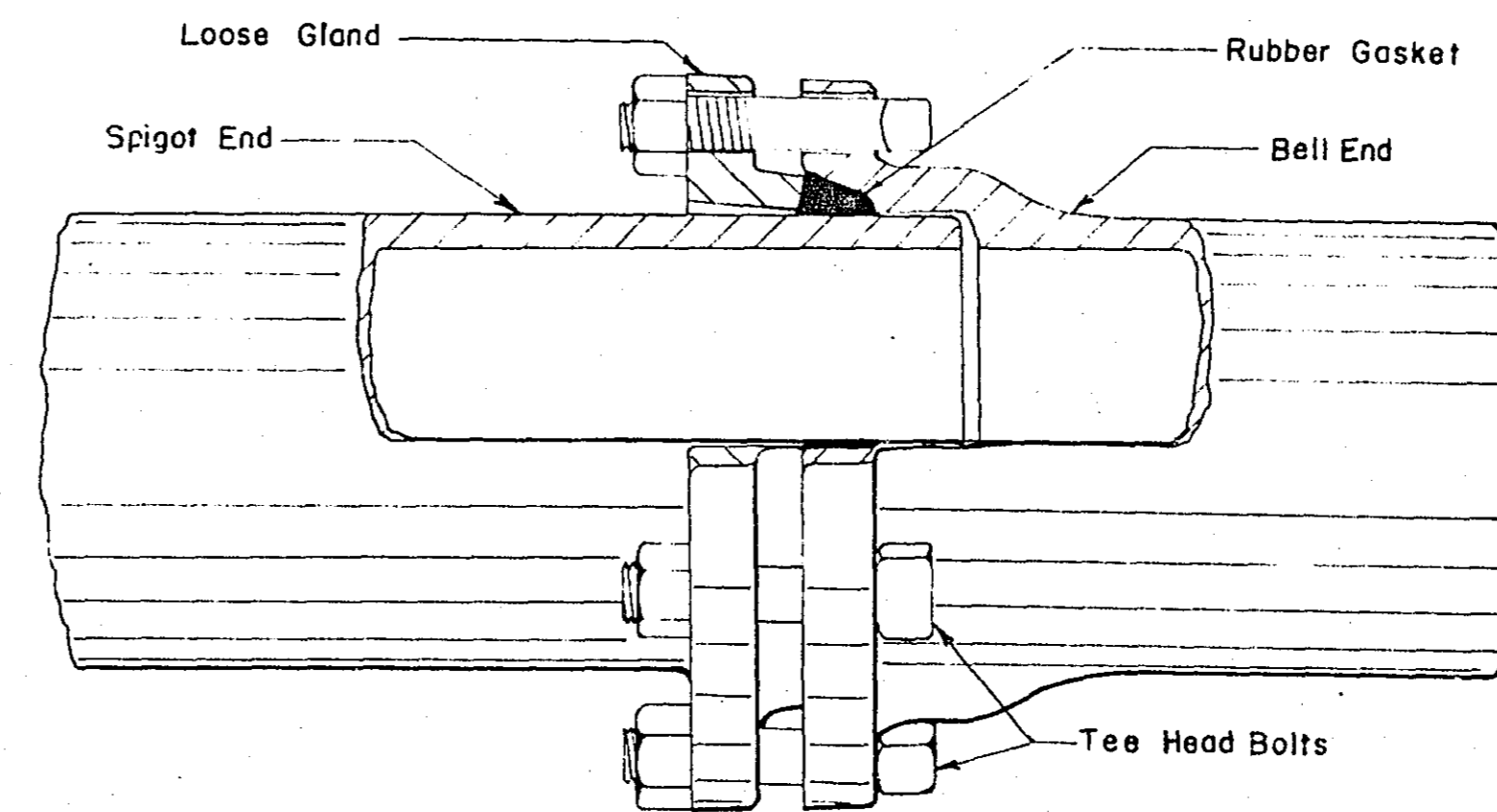
APPROVED *Joseph E. Chilton* CHAIRMAN OF RAMSEY COUNTY BOARD DATE 4/7/55



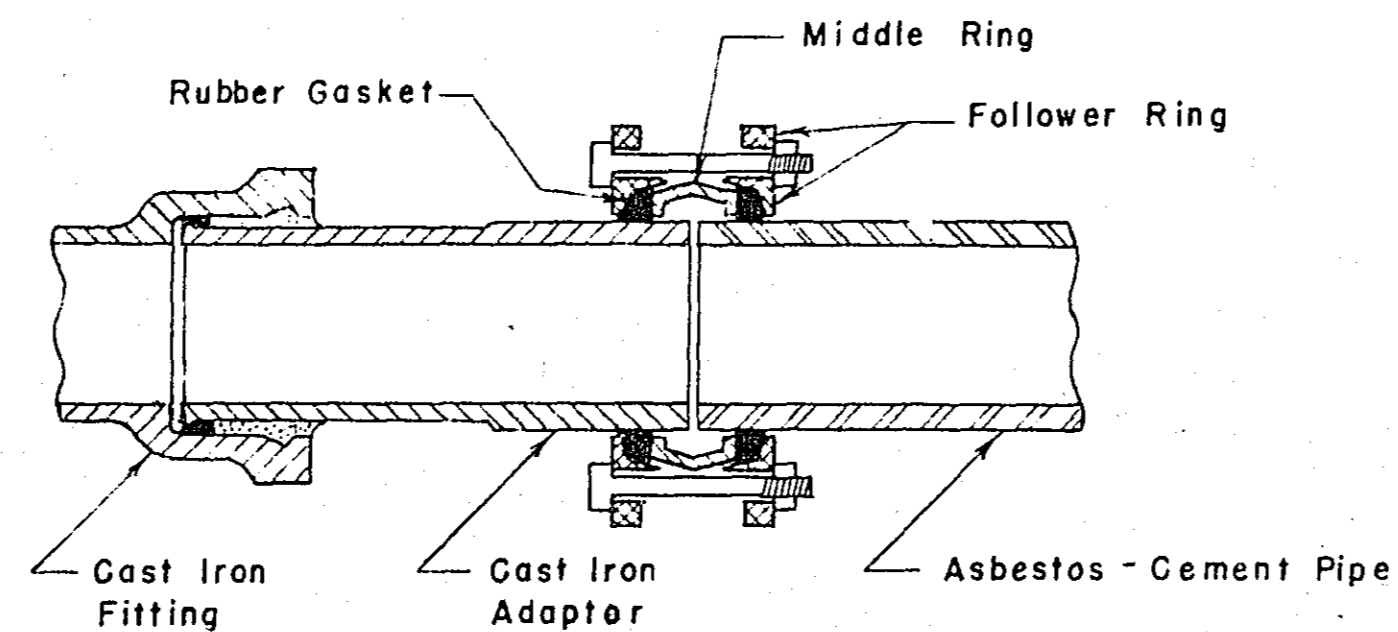
TYPICAL GATE VALVE AND BOX INSTALLATION
SHOWING CUT-AWAY VIEW OF STANDARD TYPE GATE VALVE



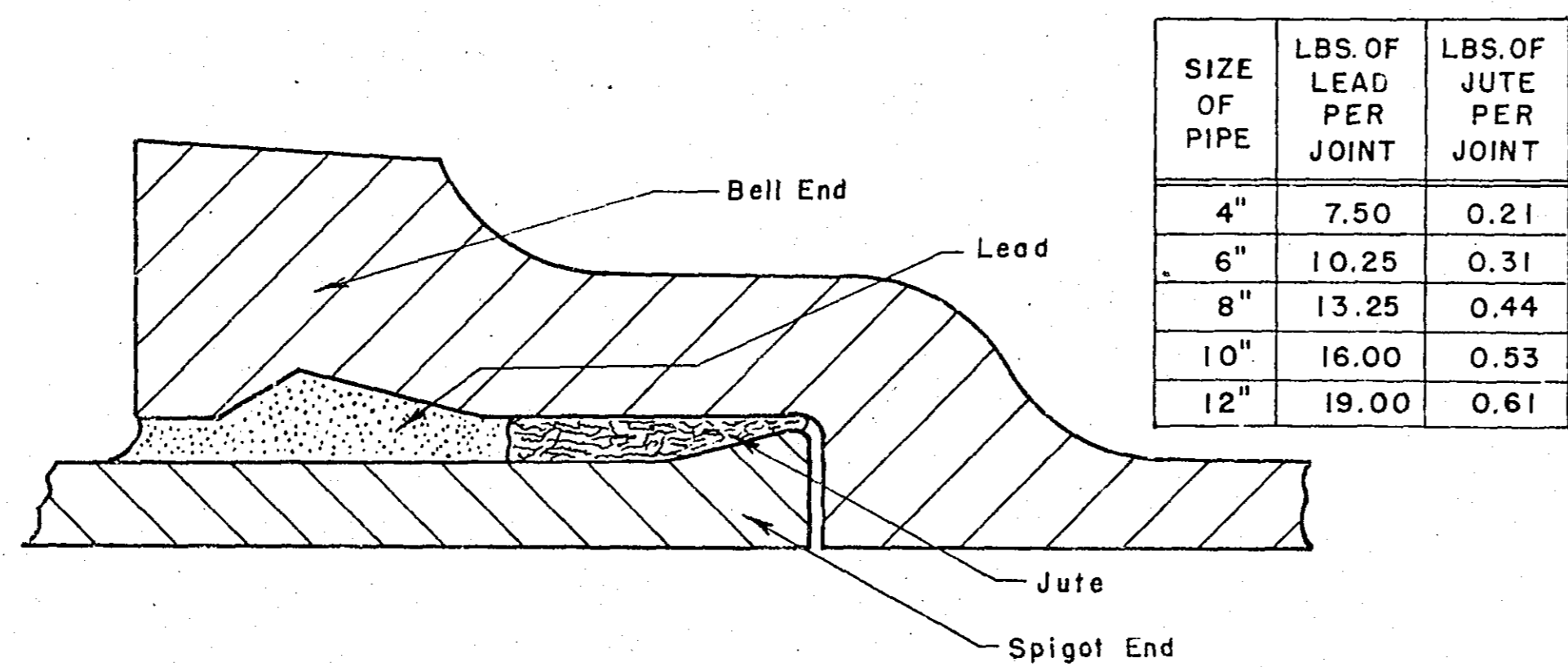
ASBESTOS-CEMENT PIPE TYPE 1



CAST IRON PIPE - MECHANICAL JOINT



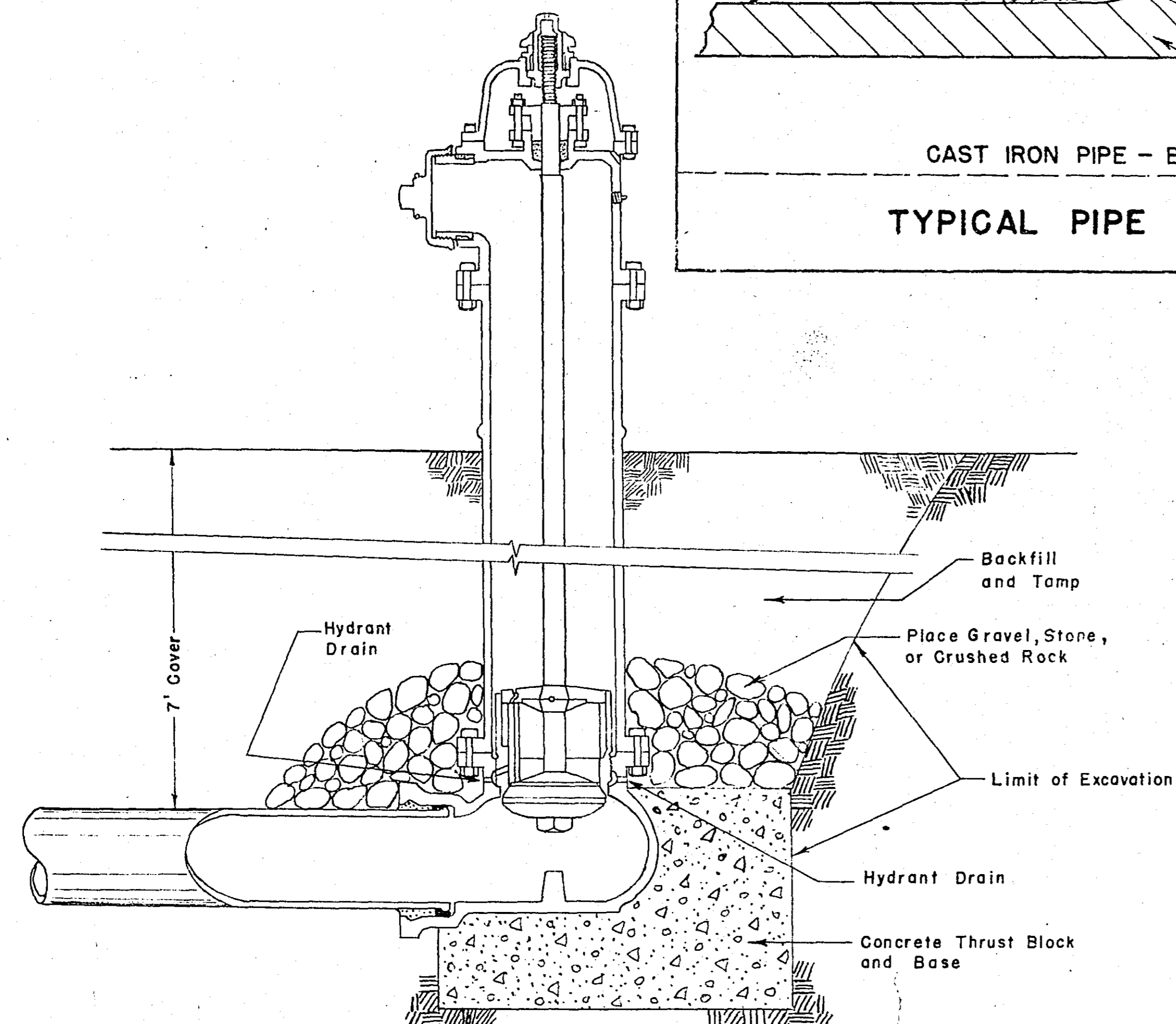
ASBESTOS-CEMENT PIPE TYPE 2



SIZE OF PIPE	LBS. OF LEAD PER JOINT	LBS. OF JUTE PER JOINT
4"	7.50	0.21
6"	10.25	0.31
8"	13.25	0.44
10"	16.00	0.53
12"	19.00	0.61

CAST IRON PIPE - BELL AND SPIGOT JOINT

TYPICAL PIPE JOINT DETAILS



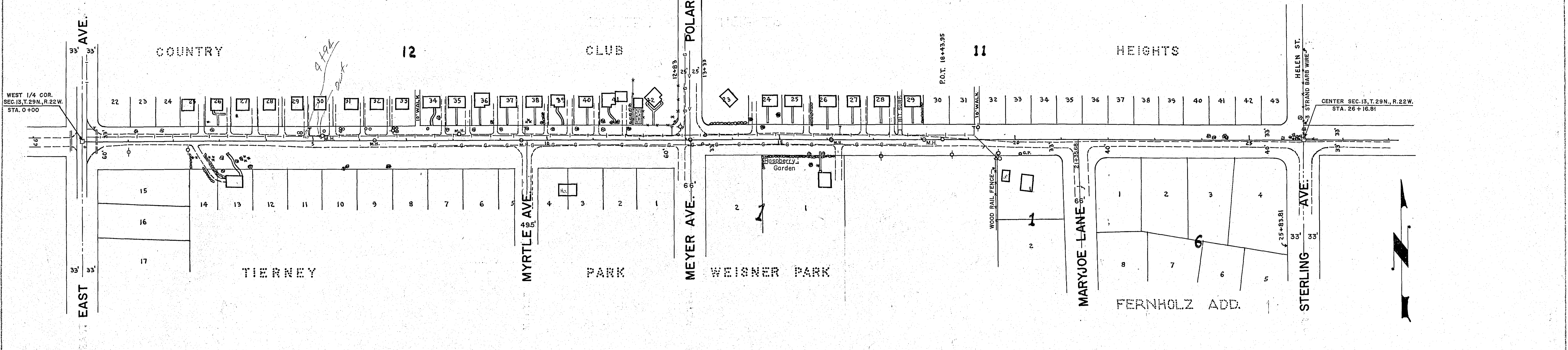
TYPICAL FIRE HYDRANT INSTALLATION
SHOWING CUT-AWAY VIEW OF STANDARD TYPE HYDRANT

Survey by	WATER MAIN DETAILS	Revisions
Designed by		
Drawn by		
Approved by		
SHEET 3 OF 11 SHEETS		6792

STA. 0+31 LT. 25.5' TO RT. 24.5'
 INP. 24" X 50" C.M.
 O.K. LEAVE

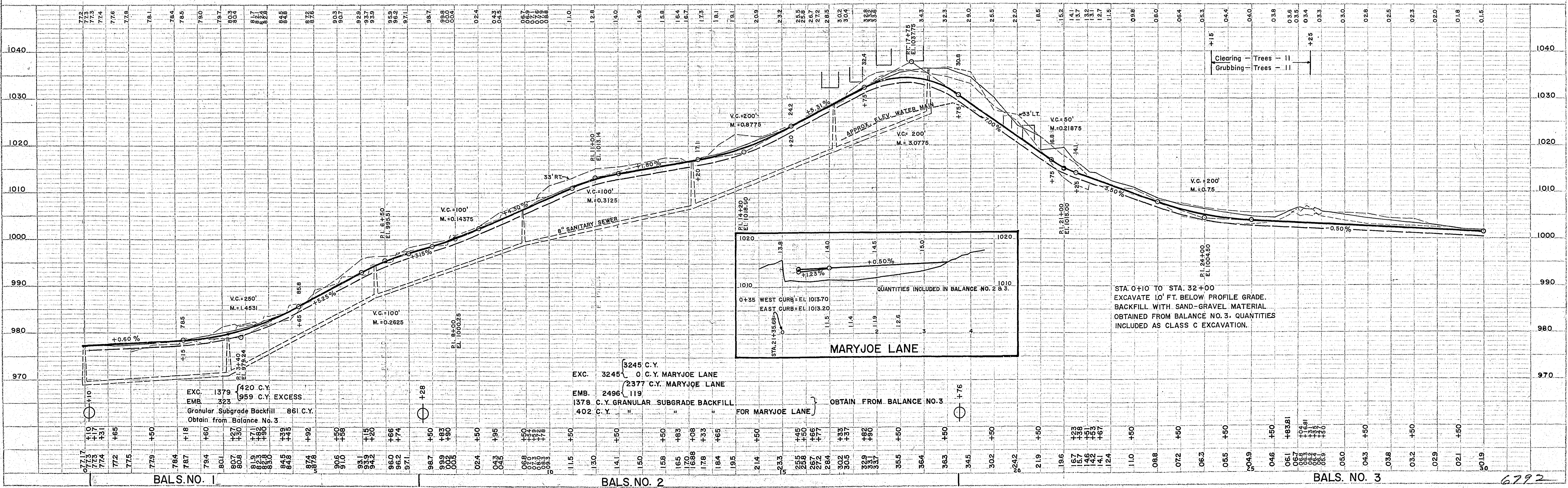
STA. 18+09 ± M.H. INP
 RECONSTRUCT 3 L.F.

DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 PROJECT NO.: _____
 SHEET NO.: _____



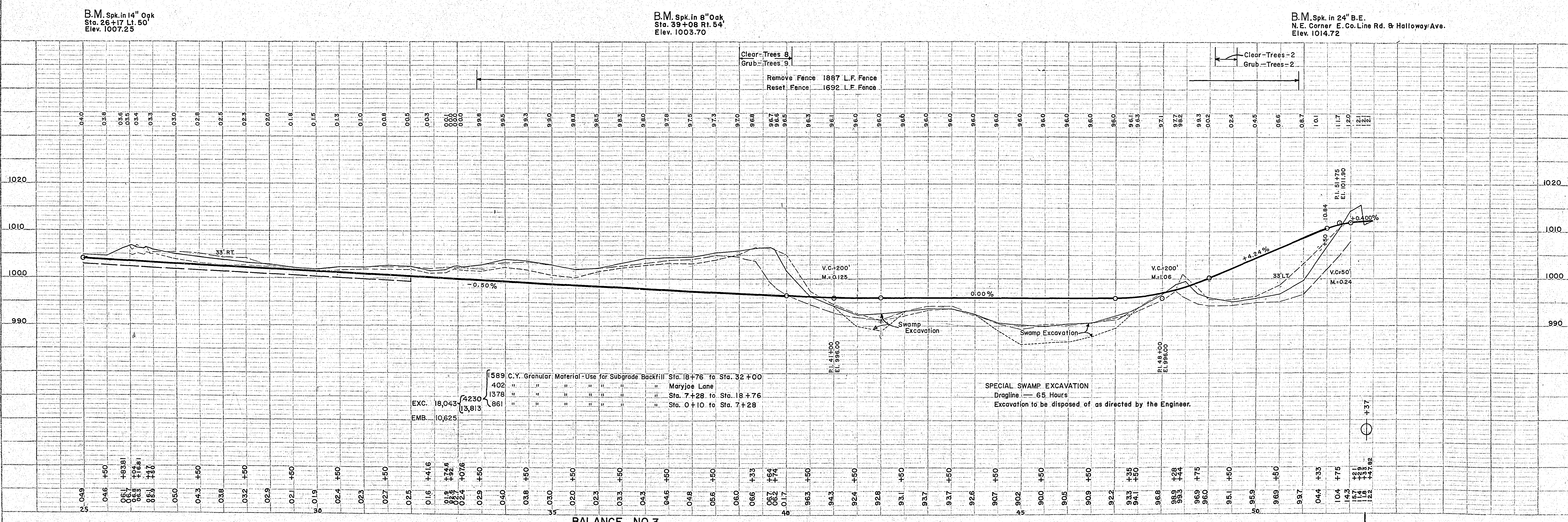
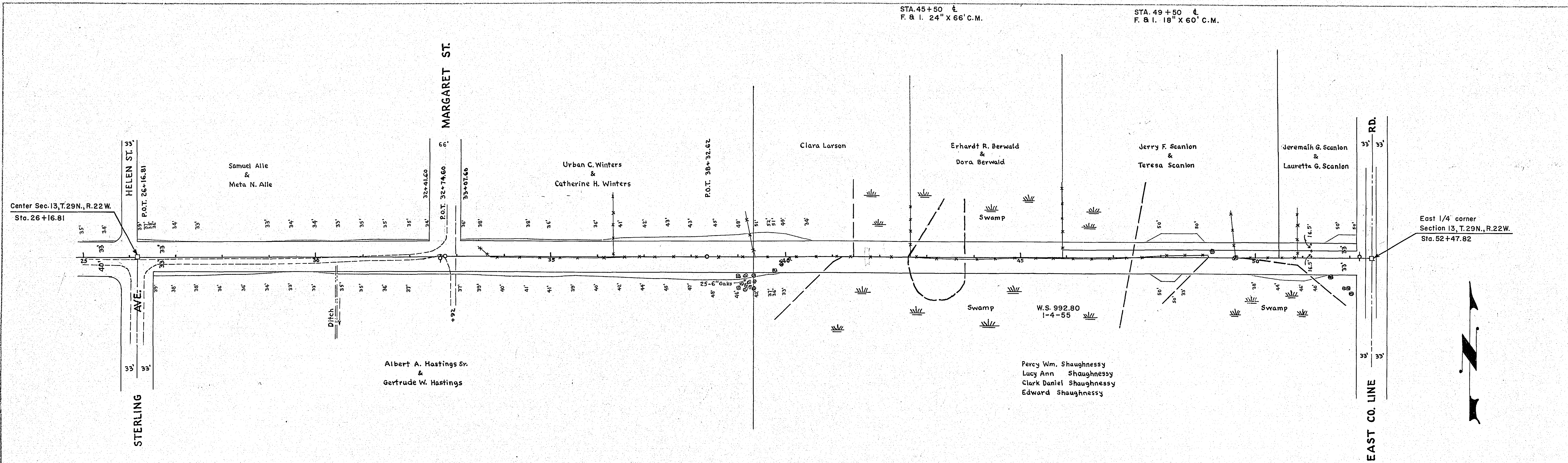
B.M. Top of Hyd. Sta. 0+28 Lt. 31' Elev. 978.84
 B.M. Top of Hyd. Sta. 9+55 Lt. 27' Elev. 1009.72
 B.M. Top of Hyd. Sta. 19+13 Lt. 28' Elev. 1035.23
 B.M. Spk. in 14" Oak Sta. 26+18 Lt. 50' Elev. 1007.25

PROFILE DRAWN BY: _____
 DATE: _____
 NOTE BOOK NUMBER: _____
 DATE: _____
 STRUCTURE NOTATION: _____



PLAN SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK GRADERS CHECKED NO. DATE
 FT. OF WAY CHECKED NO. DATE

PROFILE SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK GRADERS CHECKED NO. DATE
 STRUCTURE NOTATIONS CHKD. NO. DATE



BALANCE NO 3

PLATE 1 - PLAN-PROFILE IN P.H. & D.E. STANDARD
 REGISTERED & ISSUED CO., NEW YORK
 K & E. Co. No. 556-10

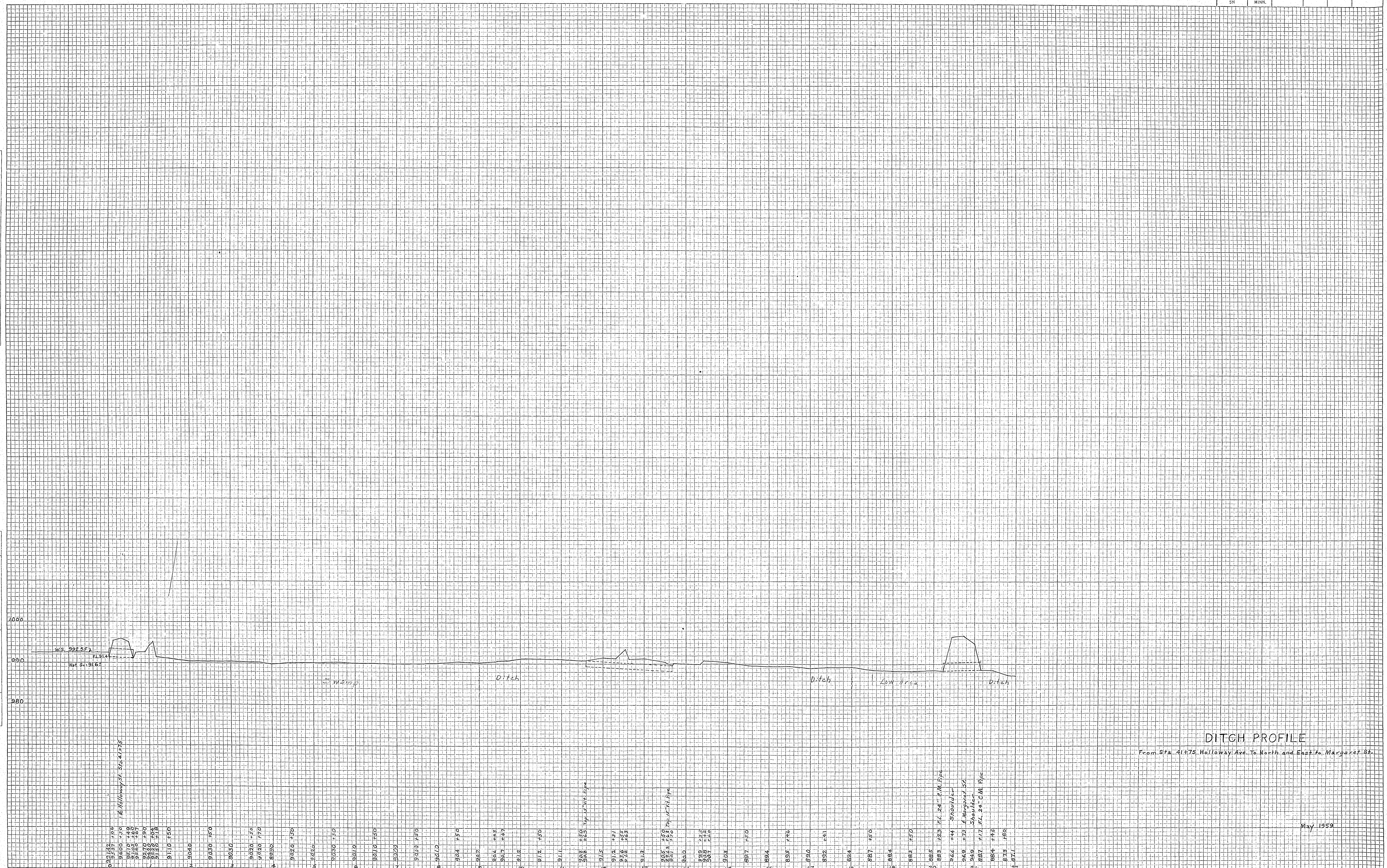
RAMSEY COUNTY PROJECT 55-56D

SHEET 5 OF 11 SHEETS

6792

FINAL SURVEY SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK NO. AREAS CHECKED

ORIGINAL SURVEY SURVEYED BY DATE
 PLOTTED BY DATE
 NOTE BOOK NO. AREAS CHECKED



DITCH PROFILE

From Sta. 41+75 Holloway Ave. To North and East to Margaret St.

May 1959

0+00 142.194
 0+10 140.00
 0+20 140.00
 0+30 140.00
 0+40 140.00
 0+50 140.00
 0+60 140.00
 0+70 140.00
 0+80 140.00
 0+90 140.00
 1+00 140.00
 1+10 140.00
 1+20 140.00
 1+30 140.00
 1+40 140.00
 1+50 140.00
 1+60 140.00
 1+70 140.00
 1+80 140.00
 1+90 140.00
 2+00 140.00
 2+10 140.00
 2+20 140.00
 2+30 140.00
 2+40 140.00
 2+50 140.00
 2+60 140.00
 2+70 140.00

2+00 140.00
 2+10 140.00
 2+20 140.00
 2+30 140.00
 2+40 140.00
 2+50 140.00
 2+60 140.00
 2+70 140.00