



HEATHER HILL Care Communities

RECEIVED
MAR 03 2017
OHIO EPA NEDO

Ohio Environmental Protection Agency

2110 East Aurora Road

Twinsburg, Ohio 44084

February 28, 2017

Entity: Heather Hill
Doc Type: Report
Doc Subtype:
Program: DDAGW
County: Crawley
Secondary ID: 012 2804212
EDOC INCORP

To Whom It May Concern:

Please find enclosed the Lead Mapping and Distribution System for Heather Hill Care Communities located at 12340 Bass Lake Road, Chardon, Ohio 44024. Our Operator of Record Steven Howe, from American Kinetic Environmental Consulting LLC has prepared this submission on our behalf. Should you have any additional questions or require further documentation please do not hesitate to contact us at 440-279-2443.

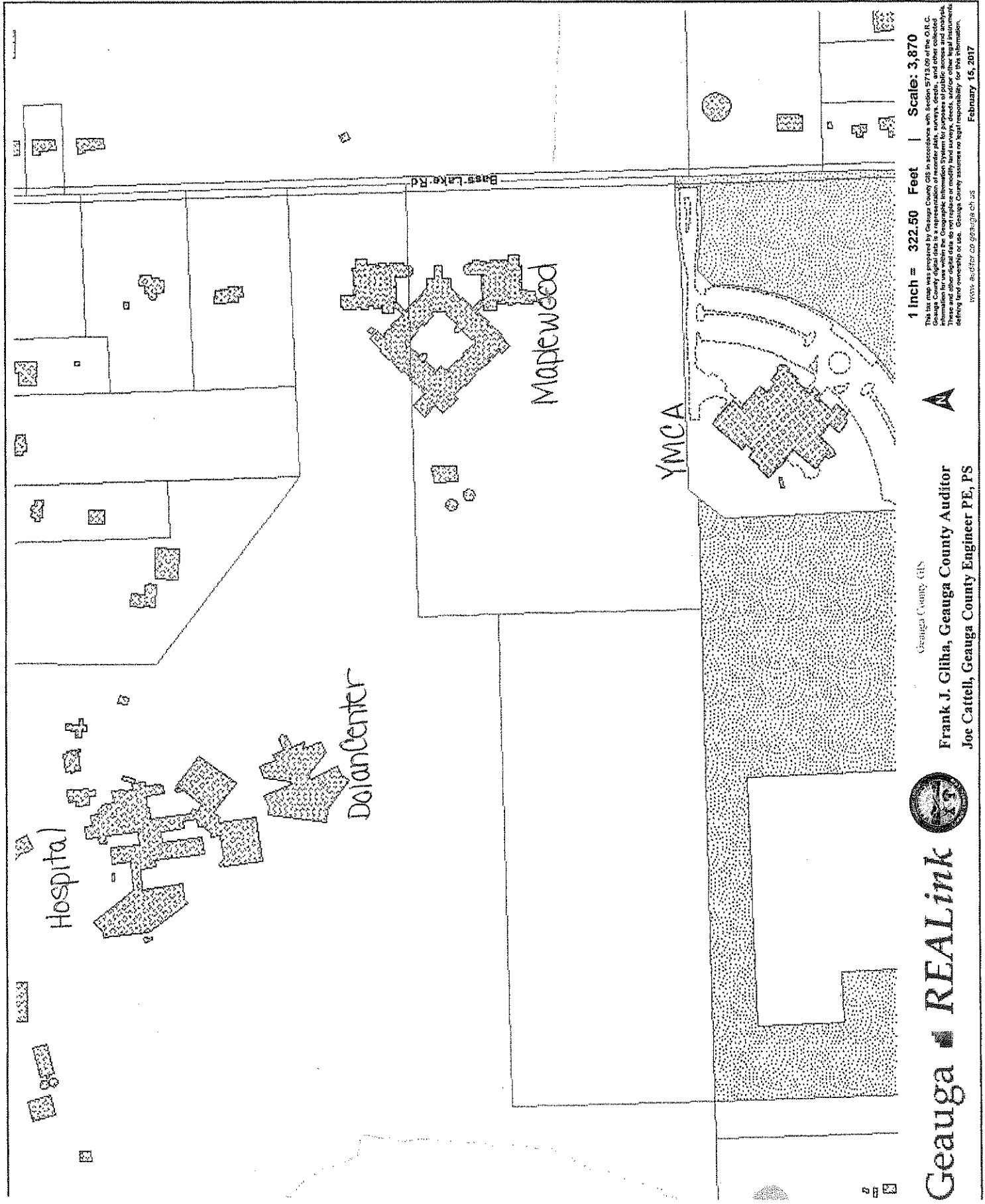
Sincerely,

Lisa Deering RN,MSN,CRRN,BC,LNHA

Executive Director

Lisa.deering@heatherhill-care.net

440-279-2443



Geauga ■ **REALink**

Geauga County GIS
Frank J. Gilha, Geauga County Auditor
Joe Cattell, Geauga County Engineer PE, PS



1 inch = 322.50 Feet | Scale: 3,870
This map was prepared by Geauga County GIS in accordance with Section 5713.09 of the O.R.C.
Geauga County digital data is a representation of recorded plats, surveys, deeds, and other collected
information for use within the Geographic Information System for purposes of public access and analysis.
These and other digital data do not replace or modify land surveys, deeds, and/or other legal instruments
relating to ownership of land. Geauga County assumes no legal responsibility for the information.
www.auditor.co.geauga.oh.us
February 15, 2017

HEATHER HILL CARE COMMUNITIES

1234 BASS LAKE ROAD

Geauga county, Chardon Ohio

PWS ID # OH2804212

HEATHER HILL CARE COMMUNITIES

TABLE OF CONTENTS

(1) Site structure layout

(2) Water system overview

(3) Building construction dates

(4) Mapping blue prints

--HEATHER HILL CARE COMMUNITES--

WATER SYSTEM OVERVIEW

(1) Supply- Water is supplied by 5 wells located throughout the property grounds. Water is transmitted to the treatment facility via 3" ductile iron pipe (DIP), supply lines are shown on enclosed prints.

(2) Treatment System- the system consists of chemical addition (sodium hypo-chlorite and an ortho- phosphate/poly blend), booster pumps, detention tanks (2) and elevated storage (2). All interior piping is constructed of ductile iron pipe (DIP). Water is transmitted to the storage tanks via ductile iron pipe (DIP) and is supplied to the distribution system by ductile iron pipe (DIP). see enclosed print.

(3) Distribution System- Supply lines are constructed of ductile iron pipe (DIP) of diameters of 12" and 10". Service lines to the buildings are also ductile iron pipe (DIP) of diameters of 6", 4" and 3". See enclosed prints.

(4) Supplied building- there are 4 major building located on Heather Hill campus

(a) Heather Hill care hospital and center for dialysis care.

(b) Dolan building, Alzheimer treatment center (this facility is closed).

(c) Maplewood (formally the Liberty) assisted living.

(d) YMCA and UH physical rehabilitation.

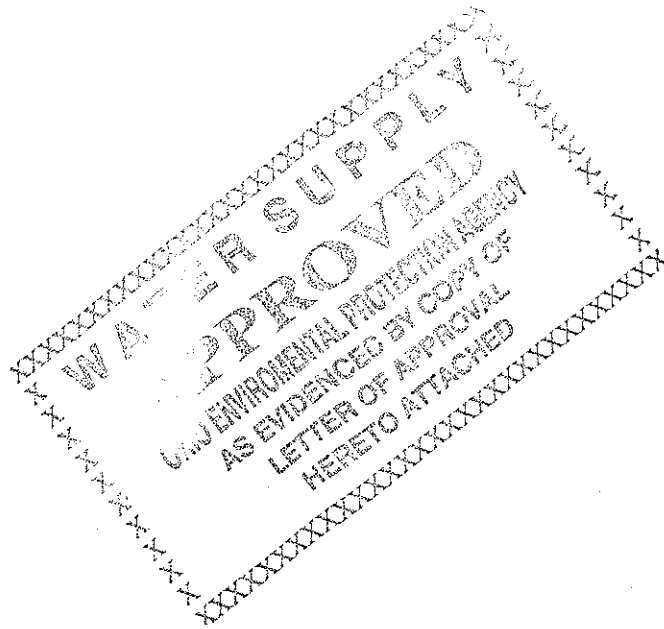
* All service supply lines (DIP) transition to copper inside all buildings.

During our investigation no "lead" transmission or service line were detected.

HEATHER HILL CARE COMMUNITIES BUILDING CONSTRUCTION DATES

- | | |
|--------------------------------|------|
| (1) Heather Hill care hospital | 1998 |
| (2) Center for Dialysis care | 2000 |
| (3) Dolan Center | 2001 |
| (4) Maplewood/Liberty | 2001 |
| (5) YMCA/UH physical rehab | 2001 |
| (6) Water treatment system | 2001 |

2/25/17



WATER TREATMENT PLANT EXPANSION AND
INFRASTRUCTURE IMPROVEMENTS,
PHASE 1
HEATHER HILL, INC.

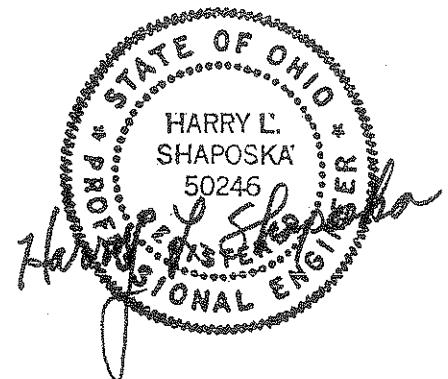
June, 2001

CT CONSULTANTS
Engineers • Architects • Planners
35000 Kaiser Court
Willoughby, Ohio 44094
440.951.9000 • www.ctconsultants.com

HEATHER HILL, INC.
12340 BASS LAKE ROAD
CHARDON, OHIO 44024

Approval:

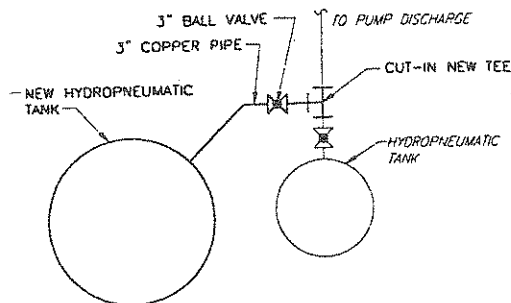
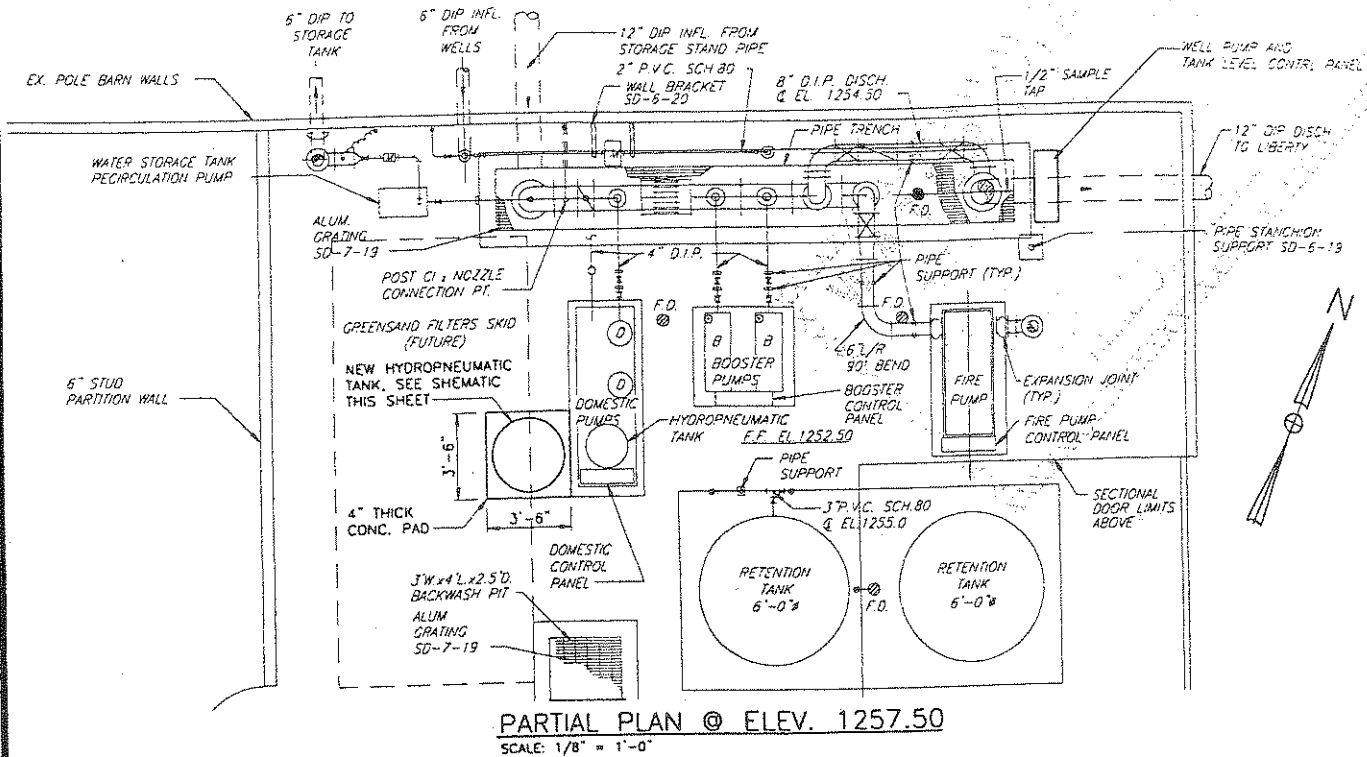
Robert G. Harr Aug. 14. 01
Robert G. Harr Date
President, Heather Hill, Inc.



RECEIVED

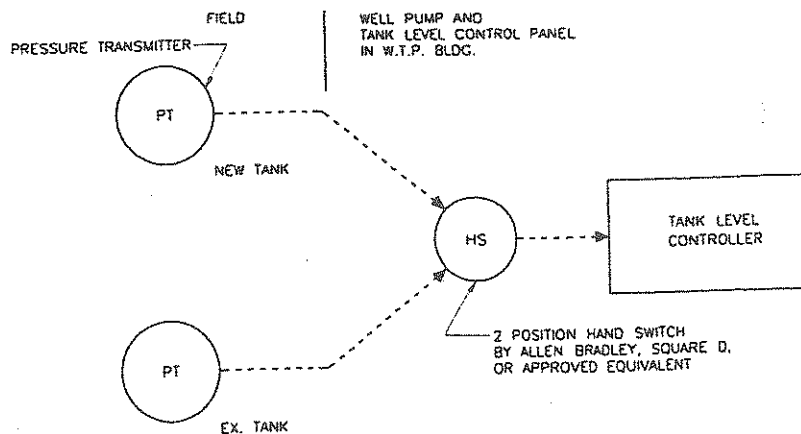
AUG 17 2001

01132



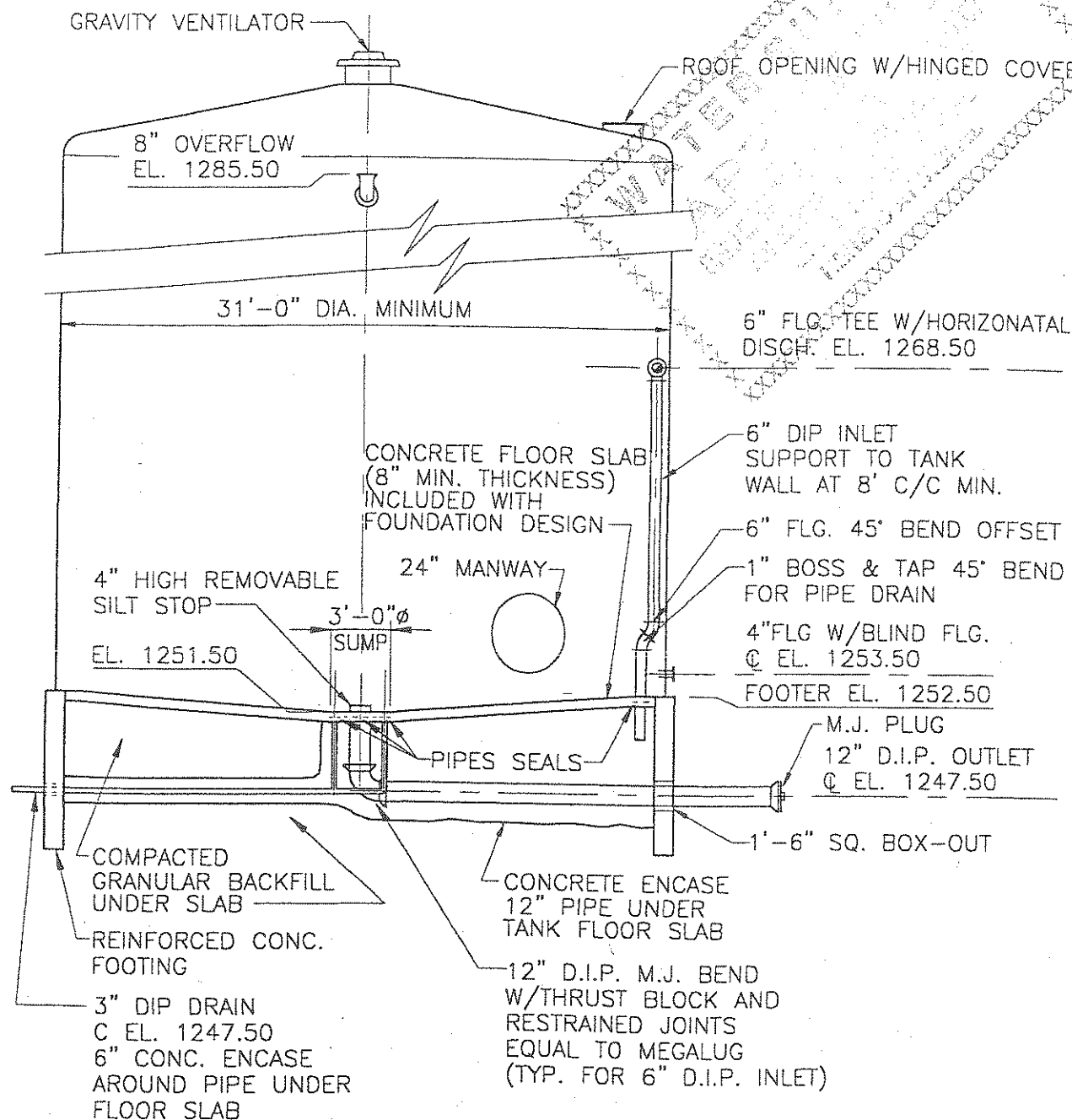
HYDROPNEUMATIC SPECIFICATIONS
FURNISH AND INSTALL AS SHOWN ON PLANS ONE (1) 370 GALLON, 36" DIAMETER X 107" HIGH PRE-CHARGED VERTICAL STEEL EXPANSION TANK WITH INTEGRAL FDA APPROVED, HEAVY DUTY BUTYL BLEND DIAPHRAGM AND BUTYL LINED DOME, FOR DOMESTIC POTABLE WATER. THE TANK SHALL HAVE A 3" NPT SYSTEM CONNECTION, AND A .302"-32 CHARGING VALVE CONNECTION (STANDARD TIRE VALVE) TO FACILITATE ON-SITE CHARGING OF THE TANK TO MEET SYSTEM REQUIREMENTS. THE TANK MUST BE CONSTRUCTED IN ACCORDANCE WITH SECTION VII OF THE ASME BOILER AND PRESSURE VESSEL CODE, WITH ALL WELDS CONFORMING TO ASME SECTION IX. THE TANK MUST BE DESIGNED FOR A MAXIMUM WORKING PRESSURE OF 125 PSI AND MAXIMUM WORKING TEMPERATURE OF 240°F. EACH TANK SHALL BE ITT BELL & COSSETT MODEL NO. PTA-455, OR APPROVED EQUIVALENT.

HYDROPNEUMATIC TANK SCHEMATIC



LEVEL INDICATION SCHEMATIC

HEATHER HILL
WATER TREATMENT PLANT EXPANSION
AND INFRASTRUCTURE IMPROVEMENTS, PHASE I

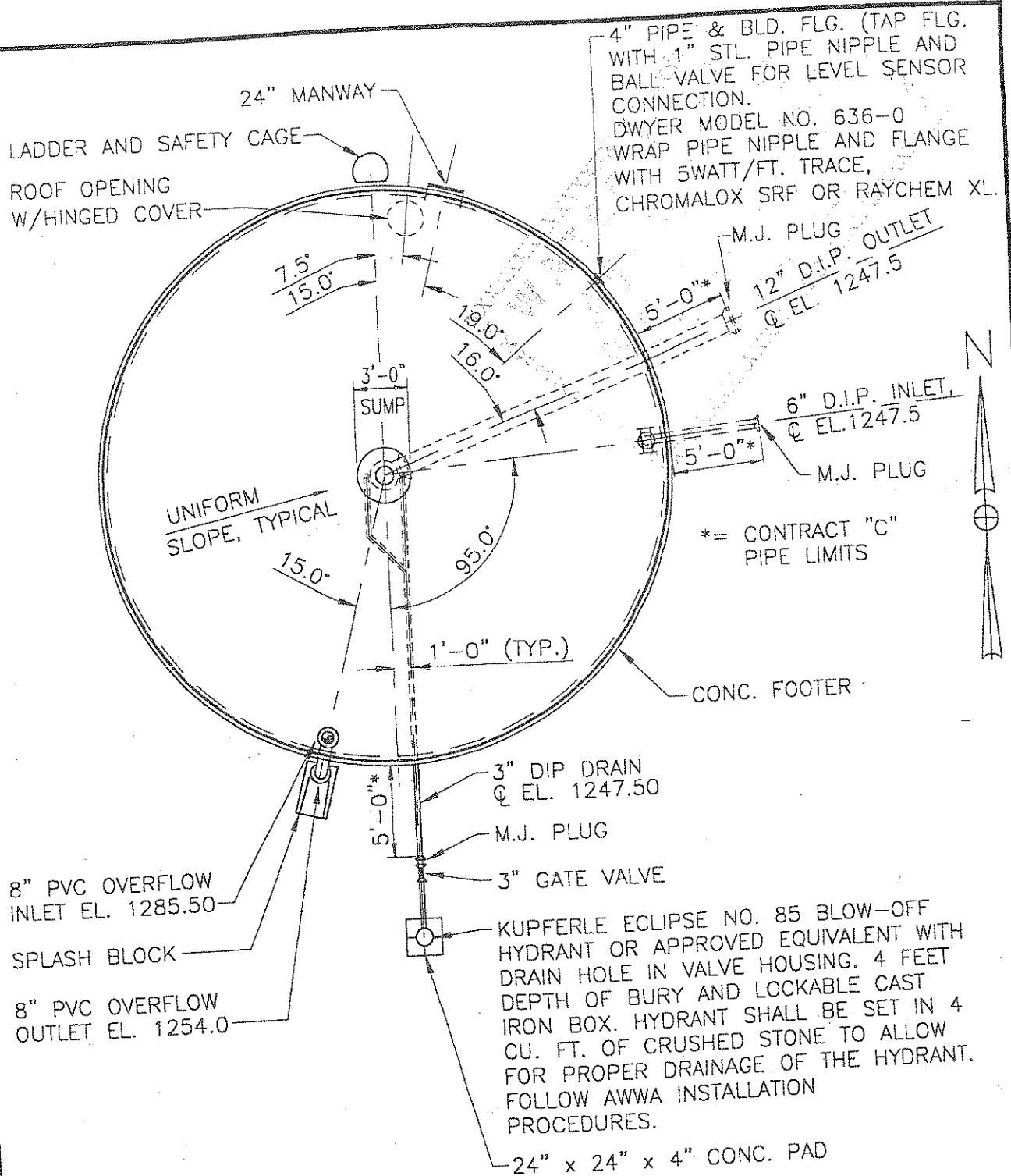


WATER STORAGE TANK TYPICAL SECTION

SCALE: $\frac{1}{8}" = 1'-0"$
REFER TO PLAN VIEW AND SITE
PLAN FOR PROPER ORIENTATION
OF PIPES AND EQUIPMENT

HEATHER HILL
WATER TREATMENT PLANT EXPANSION
AND INFRASTRUCTURE IMPROVEMENTS, PHASE I
MUNSON TOWNSHIP, OHIO DD.4

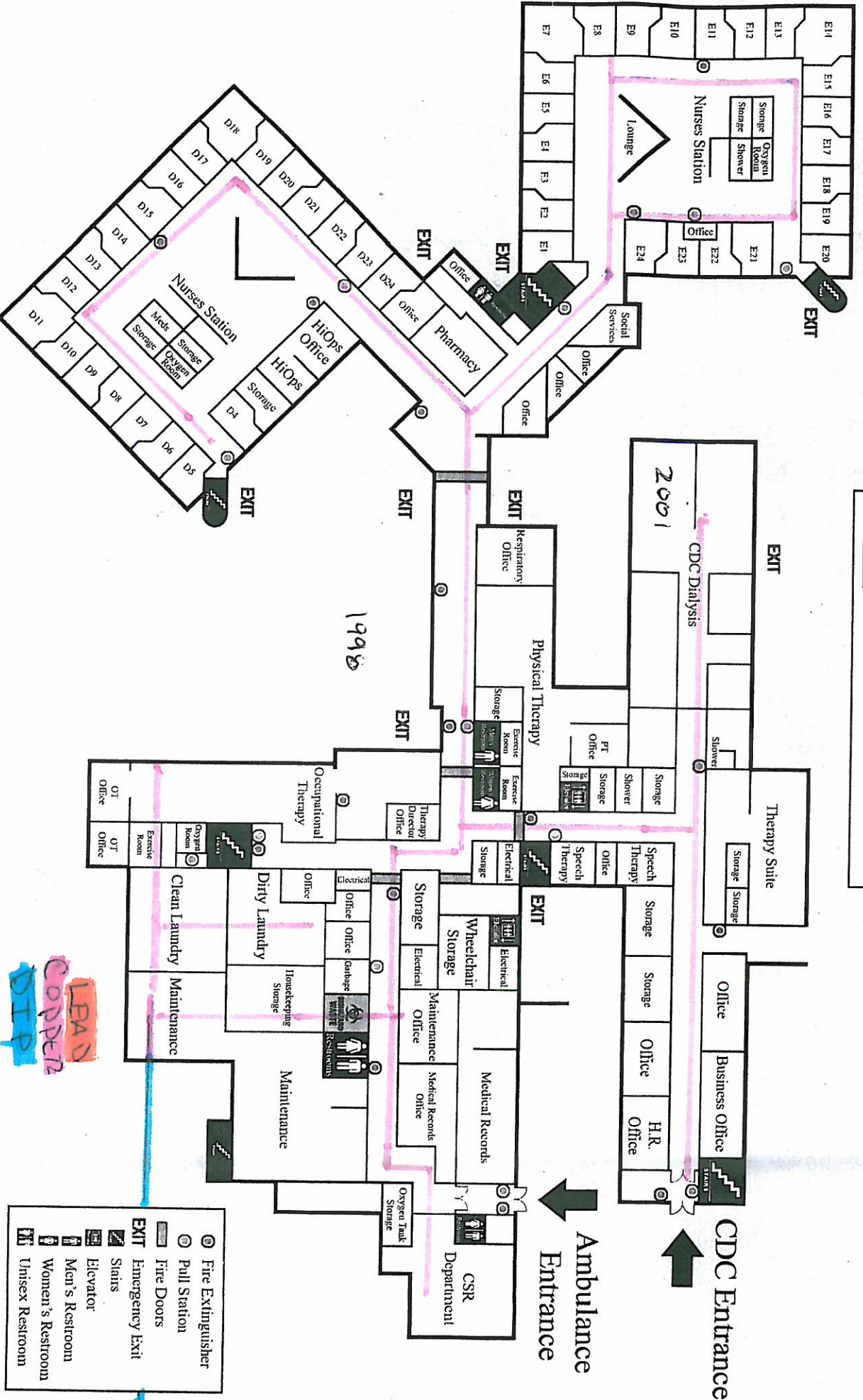
RIGHT - DATE: 06-15-01 08:21 CT CONSULTANTS, INC. H:\2001\01132\dwg\01132b01.dwg



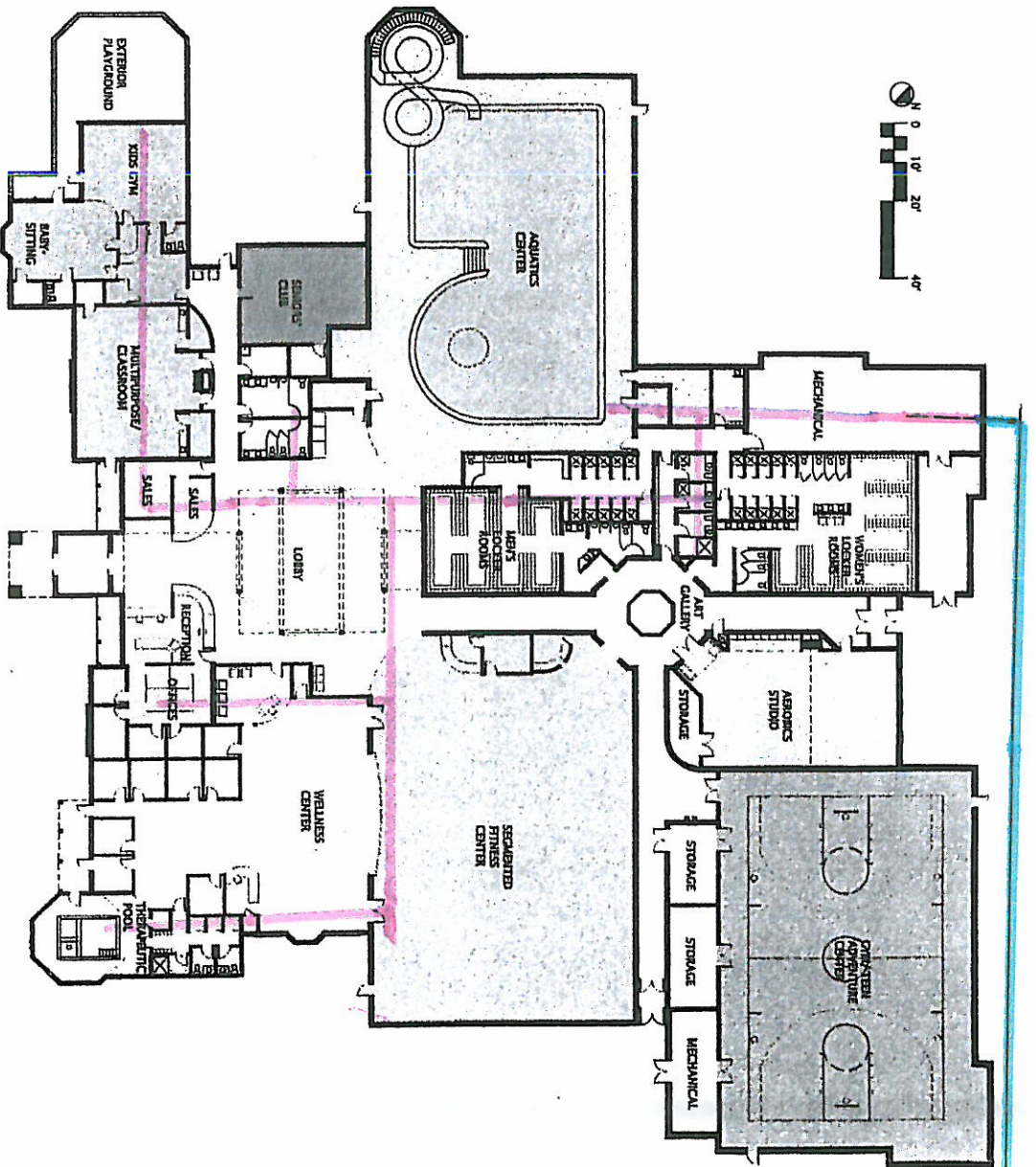
WATER STORAGE TANK PLAN VIEW

SCALE: 1/8" = 1'-0"

HEATHER HILL
WATER TREATMENT PLANT EXPANSION
AND INFRASTRUCTURE IMPROVEMENTS, PHASE I
MUNSON TOWNSHIP, OHIO DD.3



LOWER LEVEL



GEORGIA YMCA at HEATHER HILL



Doy & Miller

LEAD

COPPER

DIP

Pet

Private Banking

Room: 15167

A hand-drawn diagram of a 3D rectangular prism. A red line is drawn across the front face, representing a cut. The line starts at the bottom-left corner of the front face and extends diagonally upwards towards the top-right corner. The prism is drawn with perspective, showing the top, front, and right side faces.

General Store/
Gift Shop -
Volunteer

Reception

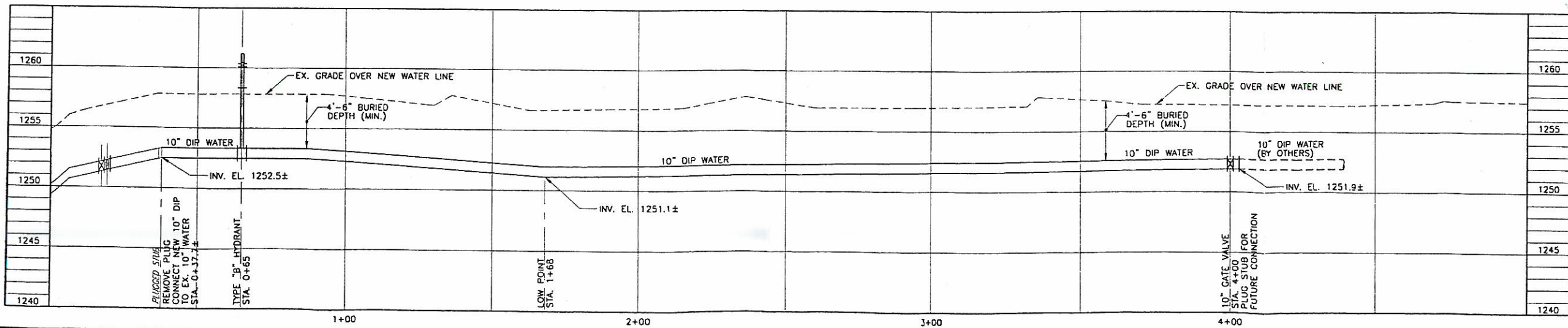
071

Solarium

Community Party

LEAD COPPER DTP

COPYRIGHT - DATE: 06-19-01 13:34 CT CONSULTANTS, INC. H:\2001\01132\dwg\01132C1.dwg



CT Consultants
Engineers • Architects • Planners
35000 Kaiser Court • Willoughby, Ohio 44094
440.951.9000 • www.ctconsultants.com

REV NO	DESCRIPTION	DATE	BY	CHK'D

HEATHER HILL
WATER TREATMENT PLANT EXPANSION
AND INFRASTRUCTURE IMPROVEMENTS, PHASE I
MUNSON TOWNSHIP, OHIO

DATE JUNE 15, 2001
DRAWN BY D.L.S.
CHECKED BY H.L.S.
APPROVED BY H.L.S.
P.B. No. 1141 PG. 47

**10" WATER MAIN EXTENSION
PLAN AND PROFILE**

SCALE
HOR. 1" = 20'
VERT. 1" = 5'
CONTRACT No. **01132**
SHEET NO. **CI** OF **2**

COPYRIGHT - DATE: 06-22-01 14:24 , CT CONSULTANTS, INC. H:\2001\01132\dwg\01132DD2.dwg

NOTES:

- 1 12" DIP WATER LINE
- 2 12" DIP 45° BEND
- 3 6" DIP 11.25% BEND
- 4 6" DIP WATER LINE
- 5 5'-0" CONTRACT LIMIT
- 6 3" DIP DRAIN
- 7 3" M.J. PLUG
- 8 3" GATE VALVE
- 9 24" x 24" x 4" CONC. PAD
- 10 KUPFERLE ECLIPSE NO. 85 BLOW-OFF HYDRANT OR APPROVED EQUIVALENT WITH DRAIN HOLE IN VALVE HOUSING. 4 FEET DEPTH OF BURY AND LOCKABLE CAST IRON BOX. HYDRANT SHALL BE SET IN 4 CU. FT. OF CRUSHED STONE TO ALLOW FOR PROPER DRAINAGE OF THE HYDRANT. FOLLOW AWWA INSTALLATION PROCEDURES. MARK "TANK DRAIN" ON CONCRETE PAD WITH EMBEDDED S.S. PLATE AND EXPANSION BOLTS.
- 11 EXISTING BURIED ELECTRICAL DUCTS
- 12 REMOVE EXISTING FENCE AND POSTS. REINSTALL FENCE AND GATES ON NORTHEAST SIDE AS SHOWN.
- 13 PROPOSED ELECTRICAL DUCT TWO-3/4" SCH40 PVC 24" DEEP, CONCRETE ENCASED UNDER ASPHALT.
- 14 8" OVERFLOW W/SPLASH BLOCK
- 15 REMOVE AND RELOCATE EXISTING GATE VALVE AND BOX. INSTALL NEW 12" DIP IN EXISTING VALVE LOCATION.
- 16 REVERSE TURN VALVE. REMOVE VALVE AND REPLACE WITH NEW GATE VALVE. RE-USE EXISTING VALVE BOX AND COVER.

BENCHMARK

TOP OF IRON PIN LOCATED
IN CENTER ISLAND OF
HEATHER HILL DRIVE
EL. 1252.47
N. 9658.66
E. 9766.40

NEW FENCE (TYP.)
(MATCH EXISTING FENCE),
SEE STANDARD DETAILS

3" RAW WATER (FROM WELL #5)

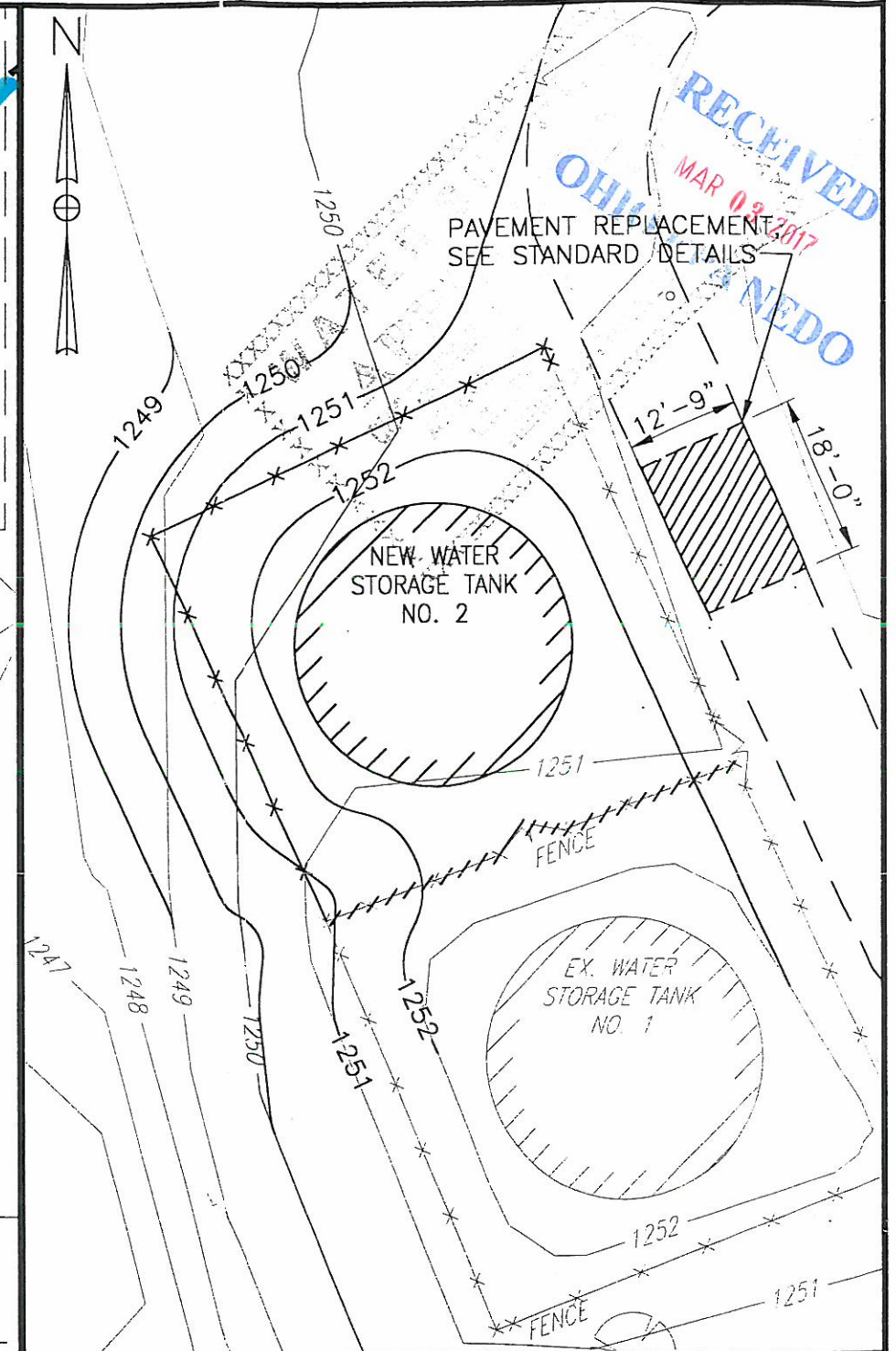
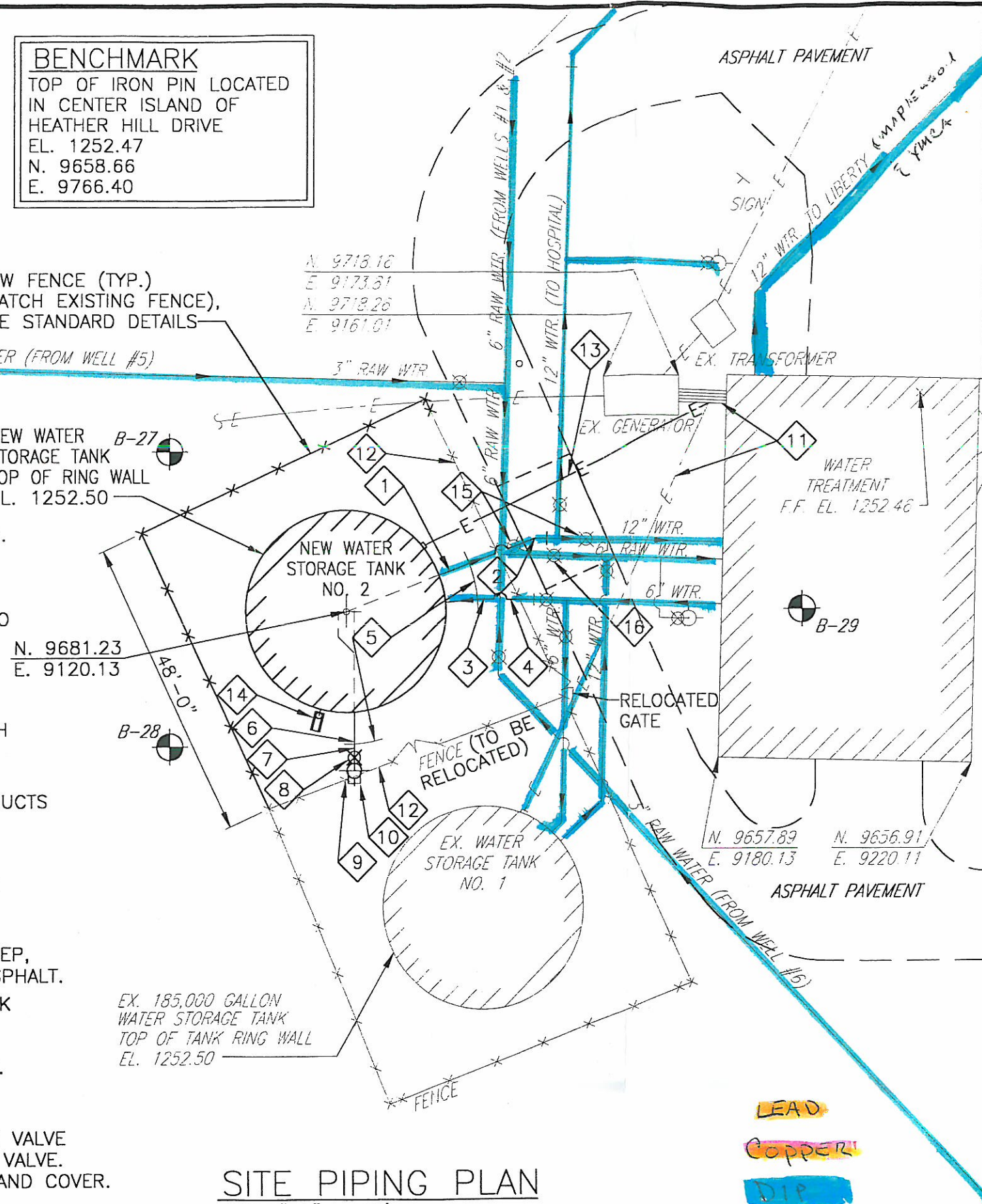
NEW WATER
STORAGE TANK
TOP OF RING WALL
EL. 1252.50

N. 9681.23
E. 9120.13

EX. 185,000 GALLON
WATER STORAGE TANK
TOP OF TANK RING WALL
EL. 1252.50

SITE PIPING PLAN

SCALE" 1" = 20'



SITE GRADING PLAN

SCALE" 1" = 20'

LEGEND

- | | | | |
|-------|------------|--------|-------------------------------|
| * * * | FENCE | +++++ | INDICATES ITEMS TO BE REMOVED |
| ○ | HYDRANT | | |
| ⊗ | GATE VALVE | ⊗ B-29 | TEST BORING |

HEATHER HILL
WATER TREATMENT PLANT EXPANSION
AND INFRASTRUCTURE IMPROVEMENTS, PHASE I
MUNSON TOWNSHIP, OHIO DD.2

VERIFICATION FORM FOR COMMUNITY PUBLIC WATER SYSTEMS CLAIMING NO LEAD SERVICE LINES

The owner or operator of all community public water systems must identify and map areas of their distribution system that are known or are likely to contain lead service lines. Systems must submit a copy of the applicable map to the Ohio Department of Health and the Ohio Department of Job and Family Services. Systems must also submit a report to the director containing at least both of the following: (1) The applicable map with narrative, and (2) A list of sampling locations used to collect samples as required by Ohio Revised Code (ORC) Section 6109.121 and any rules adopted thereunder, including contact information for the owner and occupant of each sampling site.

Should a water system determine no lead service lines exist in their distribution system, they must provide information stating they reviewed, at the minimum, historical permit records and local ordinances, distribution maintenance records and information pertaining to installation dates or materials for all services lines. This information must be verified below.

I HEREBY CERTIFY THAT THE FOLLOWING METHOD(S) WERE USED TO DETERMINE NO LEAD SERVICE LINES EXIST IN THIS WATER SYSTEM'S DISTRIBUTION SYSTEM, AS REQUIRED BY ORC 6109.121(F):

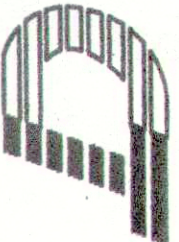
LEAD SERVICE LINE VERIFICATION
This PWS states they have no lead service lines and has reviewed the following information (select one or more of the following): ☒ Historical permit records and/or local ordinances ☐ Distribution maintenance records (i.e. meter replacement, waterline break repairs) ☒ Information pertaining to installation dates for all service lines (i.e. after 1986 when lead services lines were banned) ☐ Service line material of all service lines is known (i.e. all service lines are known to be PVC)

SHowe 3-2-17
Signature of Responsible Person Date
STEVEN HOWE ORC
Printed Name and Title of Responsible Person

PWS NAME: ● Heather Hill
PWS ID: OH 2804212
COUNTY: Geauga

For Ohio EPA use only:

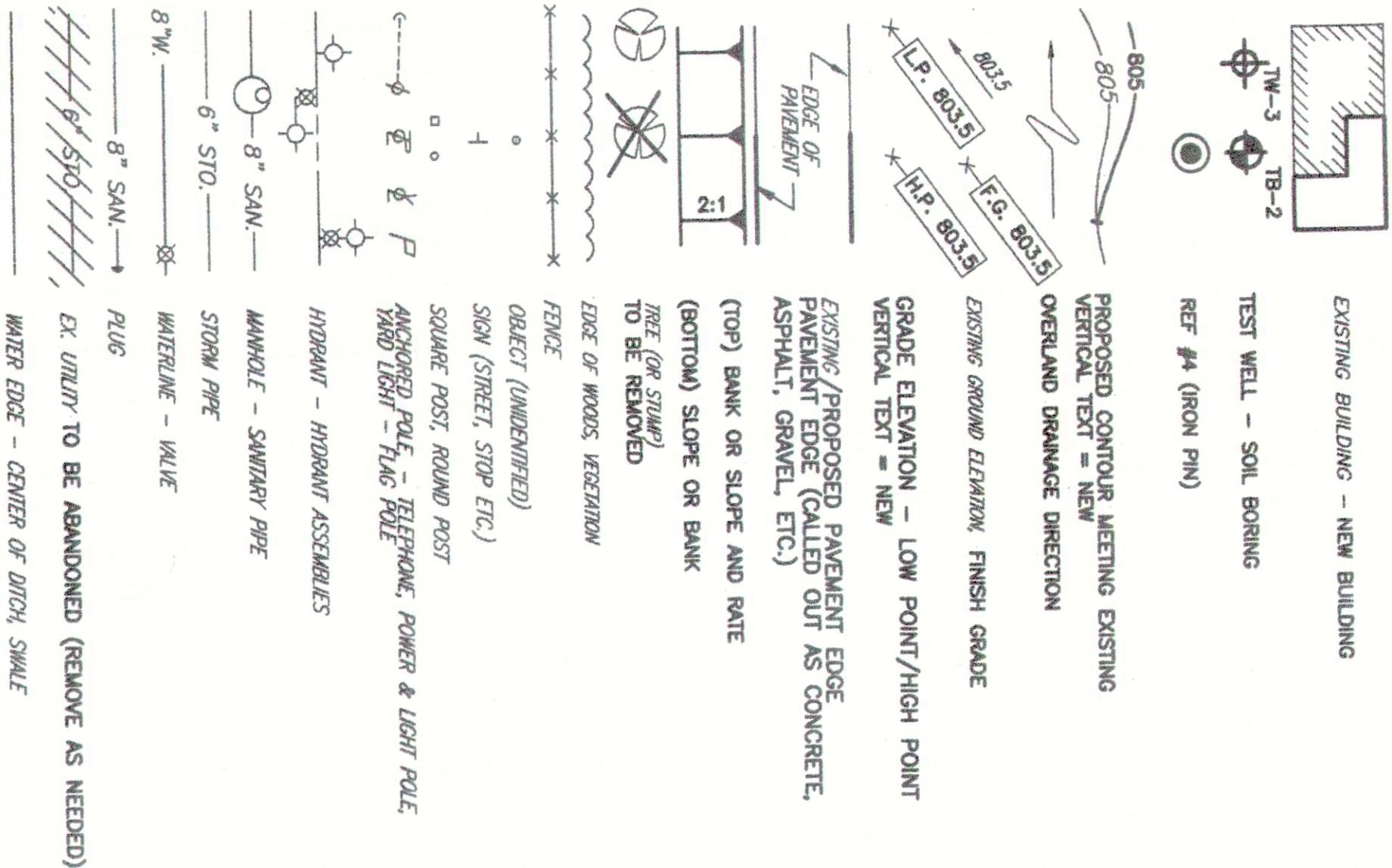
Date Verification Rec'd: _____



CT Consultants, Inc.
Engineers • Architects • Planners
Willoughby • Mentor • Columbus • North Canton • Youngstown

SITE PLAN LEGEND

NOTE: VERTICAL TEXT AND BOLD IMAGES ARE PROPOSED WORK,
SLANTED TEXT AND SCREENED IMAGES ARE EXISTING FEATURES.



- GENERAL NOTES:
1. THE EXISTING WATER PLANT AND STORAGE TANKS ARE TO BE ABANDONED IN PLACE BY OTHERS.



OPEN WELL NAME	SITE WELL NAME
WELL NO. 1	60 GPM WELL
WELL NO. 2	30 GPM WELL
WELL NO. 3	ATERS BEDROCK WELL
WELL NO. 4	GRAVEL WELL NO. 1
WELL NO. 5	BEDROCK WELL NO. 1
WELL NO. 6	BEDROCK WELL NO. 2

BENCHMARK AND LOCATION REFERENCE POINT SCHEDULE			
NUMBER	NORTH	EAST	ELEVATION
REF. # 1	10000.03	10000.04	1252.57
REF. # 2	10000.00	9436.11	1252.47
REF. # 3	10004.16	9157.29	1245.14
REF. # 4	10405.35	8833.04	1230.46
REF. # 5	10567.50	8545.44	1200.66
REF. # 6	10796.12	8578.86	1191.95



0" 1/2" 1"

LEGEND AND GENERAL NOTES

DATE: SEPT. 2000
DRAWN BY: E.L.E.
CHECKED BY: H.L.S.
APPROVED BY: R.H.G.
P.S. No. - PO. -

HEATHER HILL
WATER SYSTEM MERGER
MUNSON TOWNSHIP, OHIO

REV. NO.	DESCRIPTION	DATE	BY	CHK'D.

SCALE
HOR. AS NOTED
VERT. CONTRACT NO.
00225
SHEET NO. 2 OF 11



CT Consultants, Inc.
Engineers • Architects • Planners
Willoughby • Mentor • Columbus • North Canton • Youngstown

REV.	NO.	DESCRIPTION	DATE	BY	CHK'D.

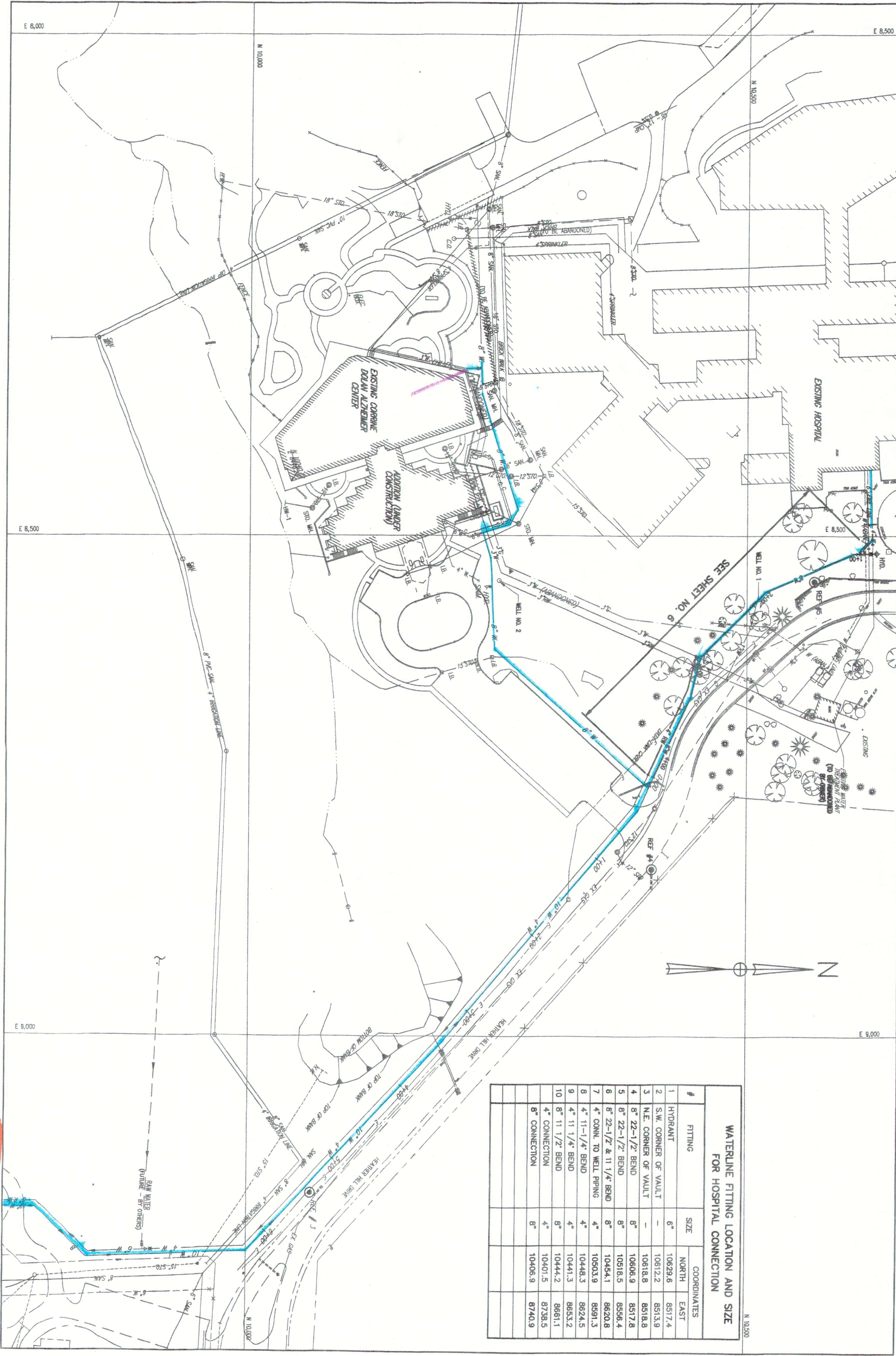
HEATHER HILL
WATER SYSTEM MERGER
MUNSON TOWNSHIP, OHIO

DATE:	SEP. 2000
DRAWN BY:	K.A.L.
CHECKED BY:	H.L.S.
APPROVED BY:	R.H.G.
FB No.	PG. 1

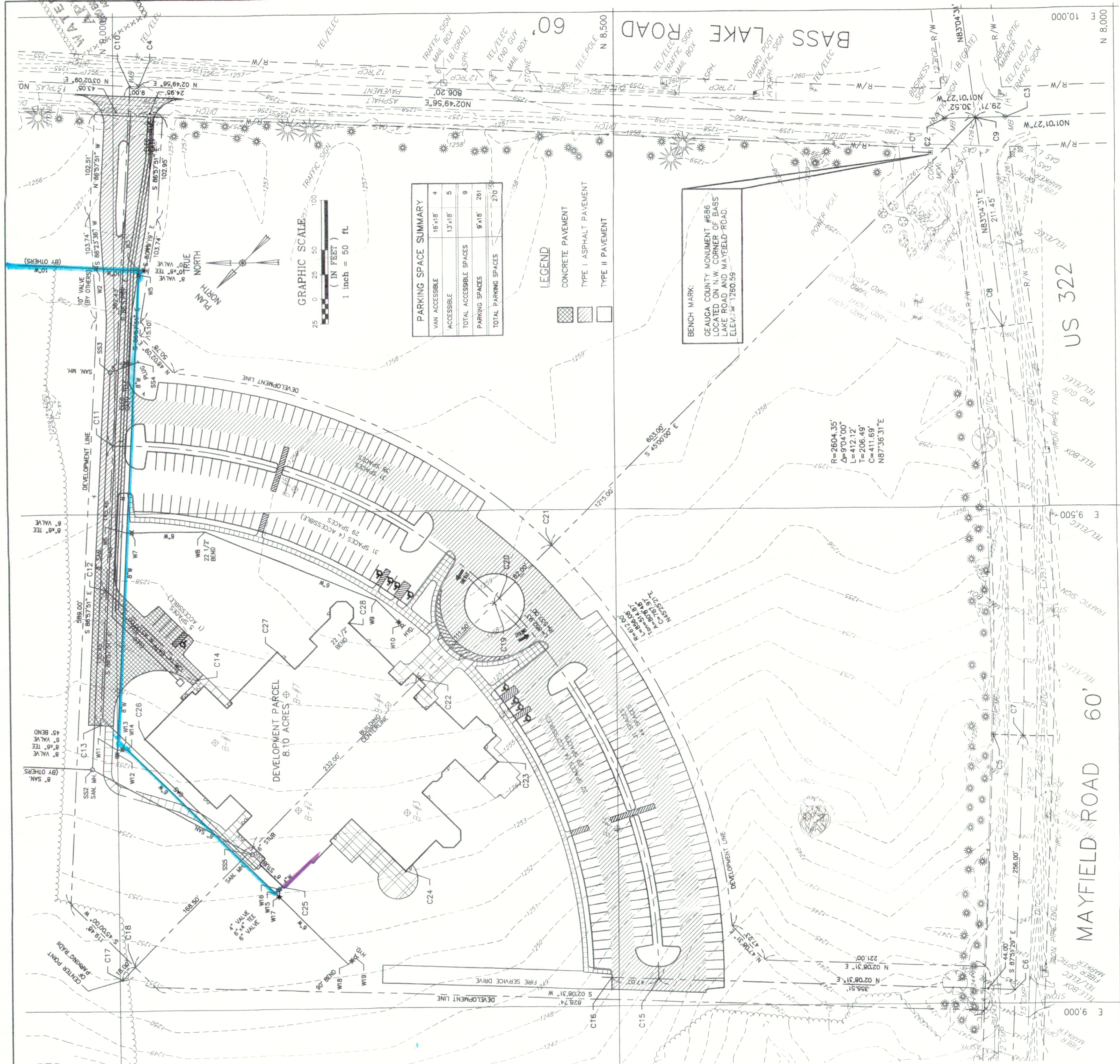
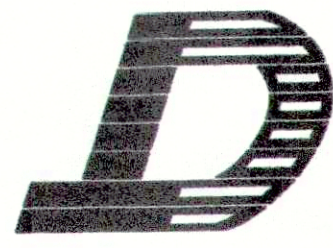
SITE PLAN

HOR. AS NOTED	SCALE
VERT.	0" 1/2" 1"
CONTRACT NO.	00225
SHEET NO.	5
OF	11

GENERAL SITE PLAN
SCALE: 1"=50'



WATERLINE FITTING LOCATION AND SIZE FOR HOSPITAL CONNECTION				
#	FITTING	SIZE	COORDINATES	
			NORTH	EAST
1	HYDRANT	6"	10629.6	8517.4
2	S.W. CORNER OF VAULT	-	10612.2	8513.9
3	N.E. CORNER OF VAULT	-	10618.8	8518.8
4	8" 22-1/2" BEND	8"	10606.9	8517.8
5	8" 22-1/2" BEND	8"	10518.5	8556.4
6	8" 22-1/2" & 11 1/4" BEND	8"	10454.1	8620.8
7	4" CONN. TO WELL PIPING	4"	10503.9	8591.3
8	4" 11-1/4" BEND	4"	10448.3	8624.5
9	4" 11 1/4" BEND	4"	10441.3	8653.2
10	8" 11 1/2" BEND	8"	10444.2	8661.1
11	4" CONNECTION	4"	10401.5	8738.5
12	8" CONNECTION	8"	10406.9	8740.9



PARKING SPACE SUMMARY		
VAN ACCESSIBLE	16'x18'	4
ACCESSIBLE	13'x18'	5
TOTAL ACCESSIBLE SPACES		9
PARKING SPACES	9'x18'	261
TOTAL PARKING SPACES		270

LEGEND

	CONCRETE PAVEMENT
	TYPE I ASPHALT PAVEMENT
	TYPE II PAVEMENT

BENCH MARK:
GEAUGA COUNTY MONUMENT #686
LOCATED ON N.W. CORNER OF BASS
LAKE ROAD AND MAYFIELD ROAD.

POINT NO.	NORTH	EAST	LOCATION
C1	8163.12	9856.32	CONCRETE MONUMENT
C2	8168.73	9890.12	MONUMENT BOX
C3	8168.52	9881.19	MONUMENT BOX
C4	8973.95	9929.95	MONUMENT BOX
C5	8125.53	9270.54	CONCRETE MONUMENT
C6	81005.12	9013.60	€ - @ ENTRANCE DRIVE (FUTURE) AND MAYFIELD ROAD
C7	8095.55	9269.42	P.C. ON @ MAYFIELD ROAD
C8	8112.73	9680.75	P.T. ON @ MAYFIELD ROAD
C9	8138.22	9890.66	€ - @ MAYFIELD ROAD AND BASS LAKE ROAD
C10	8992.83	9930.43	€ - @ ENTRANCE DRIVE AND BASS LAKE ROAD
C11	9002.13	9568.51	€ - @ ENTRANCE DRIVE AND PARKING LOT (NORTH END)
C12	9008.83	9423.25	€ - @ SERVICE DRIVE AND PARKING LOT (NORTHEAST END)
C13	9017.00	9297.99	€ SERVICE DRIVE (WEST END)
C14	8919.22	9332.64	€ PARKING LOT (SOUTHWEST END)
C15	8460.38	9026.89	€ - @ ENTRANCE DRIVE (FUTURE) AND PARKING LOT (WEST END)
C16	8507.37	9028.65	€ ENTRANCE DRIVE (FUTURE) (NORTH END)
C17	8897.36	9031.53	CENTER POINT OF PARKING RADI ON @ BUILDING
C18	8984.63	9044.26	DEVELOPMENT LINE ON @ BUILDING
C19	8622.59	9406.29	CENTER POINT OF ISLAND RADI ON @ BUILDING
C20	8617.64	9411.24	€ - @ BUILDING AND PARKING LOT
C21	8564.61	9464.28	DEVELOPMENT LINE ON @ BUILDING
C22	8698.02	9330.87	BUILDING ENTRANCE ON @ BUILDING
C23	8620.47	9246.49	SOUTH BUILDING FOUNDATION CORNER
C24	8713.57	9137.36	NORTHWEST BUILDING FOUNDATION CORNER
C25	8835.43	9122.51	NORTHWEST BUILDING FOUNDATION CORNER
C26	8872.73	9273.48	NORTH BUILDING FOUNDATION CORNER
C27	8639.67	9359.63	NORTHEAST BUILDING FOUNDATION CORNER
C28	8768.09	9386.45	SOUTHEAST BUILDING FOUNDATION CORNER

SANITARY FACILITIES SCHEDULE														
FROM POINT NO.	NORTH	EAST	STRUCTURE TYPE	RIM ELEVATION	INVERT ELEVATION	CONVEYANCE TYPE	LENGTH	SLOPE	TO POINT NO.	EAST	STRUCTURE TYPE	RIM ELEVATION	INVERT ELEVATION	
SS1	9411.3	9263.79	EXIST. M.H.	1252.5	1248.29+-8"	8" PIPE	386'	0.40%	SS2	9025.38	9243.33	M.H.	1254.8	1246.74+-8"
SS2	9025.38	9243.33	M.H.	1254.8	1246.74+-8"	8" PIPE	400'	0.40%	SS3	9004.20	9842.77	M.H.	1256.1	1246.34+-8"
					1246.74+-8"	8" PIPE	181'	1.00%	SS5	8866.31	9156.45	M.H.	1256.9	1248.55+-8"
SS3	9004.20	9842.77	M.H.	1256.1	1248.34+-8"	8" PIPE	30'	0.50%	SS4	8975.99	9452.88	PIPE END	-	1248.49+-8"
SS5	8866.31	9156.45	M.H.	1256.9	1248.72+-6"	8" PIPE	6'	1.00%	-	-	TO BLDG.	-	-	
					1248.72+-6"	6" PIPE	12'	1.00%	-	-	TO BLDG.	-	-	

WATERLINE SCHEDULE				
POINT NO.	NORTH	EAST	TYPE	SIZE
W1	9379.47	9766.70	EX. PLUG	10"
W2	9017.67	9747.51	VALVE	10"
W3	8947.73	9745.24	TEE	10" x 8"
W4	8968.74	9744.97	VALVE	10"
W5	8974.99	9740.24	VALVE	8"
W6	8986.72	9481.35	TEE	8" x 6"
W7	8983.72	9481.35	VALVE	6"
W8	8910.64	9481.35	12 1/2" BEND	6"
W9	8740.46	9410.77	22 1/2" BEND	6"
W10	8714.64	9384.95	HYDRANT	6"
W11	9000.29	9263.23	TEE	8" x 6"
W12	9000.56	9258.24	VALVE	8"
W13	8995.29	9263.23	VALVE	6"
W14	8990.29	9263.23	45° BEND	6"
W15	8843.92	9116.85	TEE	6" x 4"
W16	8840.38	9120.39	VALVE	4"
W17	8840.38	9113.32	VALVE	6"
W18	8771.60	9044.53	90° BEND	6"
W19	8768.52	9051.60	HYDRANT	6"

