

CITY OF ANN ARBOR
INVITATION TO BID



Sanitary Manhole Raising Project

Reference Plans

Due Date: November 23, 2021 by 2:00 PM (Local Time)

Public Works Unit
Public Services Area

Issued By:

City of Ann Arbor
Procurement Unit
301 E. Huron Street
Ann Arbor, MI 48104

FACILITYID	LOCATION	GROUNDTYPE	Approx. DEPTH (ft)	BARRELDIAM
71-072836	455 Eisenhower Parkway	Green Space	8.65	36
71-073152	407 N Seventh St	Green Space	12.06	36
71-073153	509 Dartmoor Rd	Green Space	Unknown	36
71-073195	Brookfield Dr	Green Space	Unknown	36
71-073201	Westwood Apts	Green Space	6.75	36
71-611103	2155 Medford Road	Green Space	6.58	36
71-611188	1874 Lindsay Lane	Green Space	18.00	36
71-61379	423 Huron View Blvd	Green Space	10.00	36
71-61412	Long Shore Drive	Green Space	4.00	36
71-61461	4038 Thornoaks Drive	Green Space	16.00	36
71-61464	4193 Thornoaks Drive	Green Space	8.00	36
71-61634	2781 Arlington Blvd	Green Space	8.64	36
71-61705	2541 Londonberry Road	Green Space	12.00	36
71-61706	2541 Londonberry Road	Green Space	19.00	36
71-61730	2345 S Huron Pkwy	Green Space	10.00	36
71-61735	2225 S Huron Pkwy	HMA	13.00	36
71-61741	2201 S Huron Pkwy	Green Space	14.00	36
71-61745	3336 Washtenaw Ave	Green Space	11.00	36
71-61781	3325 Washtenaw Ave	Green Space	9.00	36
71-61836	2001 S Huron Pkwy	Green Space	10.20	36
71-61931	850 Arlington Blvd	Green Space	17.70	36
71-61983	3125 Hunting Valley Dr	Green Space	12.00	36
71-62012	3150 Hunting Valley Dr	Green Space	4.31	36
71-62022	785 Arlington Blvd	Green Space	12.00	36
71-62023	750 Arlington Blvd	HMA	8.77	36
71-62032	3875 E Huron River Dr	HMA	4.33	48
71-62188	2976 Cascade Dr	Green Space	14.00	36
71-62196	2520 Kimberley Rd	Green Space	6.00	36
71-62197	2605 Gladstone Ave	Green Space	13.00	36
71-62218	1315 Harpst St	Green Space	8.50	36
71-62253	2150 Independence Blvd	Green Space	10.00	36
71-62255	2170 Independence Blvd	HMA	10.00	36
71-62317	2180 Medford Rd	Green Space	8.00	36
71-62393	Edgewood Dr	Green Space	16.00	36

71-62394	Edgewood Dr	Green Space	13.00	36
71-62395	3159 Edgewood Dr	Green Space	11.00	36
71-62410	3225 Packard Rd	HMA	8.25	36
71-62482	19 Revere Court	Green Space	14.02	36
71-62490	2640 Lookout Cir	Green Space	15.00	36
71-62495	2607 Hampshire Rd	Green Space	15.00	36
71-62530	15 Revere Court	Green Space	9.82	36
71-62628	2437 Yost Blvd	HMA	7.00	36
71-62650	2730 Brandywine Dr	Green Space	8.00	36
71-62816	2469 Packard St	Green Space	8.83	36
71-62871	King George Blvd	Green Space	17.00	36
71-62873	2882 E Eisenhower Pkwy	HMA	16.96	36
71-63337	1915 Woodbury Dr	HMA	10.00	36
71-63368	1403 Iriquois Pl	HMA	6.20	36
71-63418	Brookfield Dr	Green Space	12.00	36
71-63420	Brookfield Dr	Green Space	14.00	36
71-63421	Brookfield Dr	Green Space	17.00	36
71-63443	1300 Brookfield Dr	Green Space	16.32	36
71-63578	2255 Chaucer Court	Green Space	12.97	36
71-63609	Durango Drive	HMA	14.60	36
71-63613	Geneva Road	HMA	10.73	36
71-63617	Keystone Lane	HMA	7.85	36
71-63619	Geneva Road	HMA	8.93	36
71-63855	E Stadium Blvd	Conc	22.56	36
71-63872	Harbor Way	HMA	8.51	36
71-63893	2190 S State St	HMA	12.16	36
71-64240	2116 Scio Church Rd	HMA	9.01	36
71-64300	1631 Waltham Dr	Green Space	9.99	36
71-64383	1655 Westfield Ave	HMA	12.35	36
71-64387	1315 Birk Ave	HMA	11.00	36
71-64513	821 Mt Pleasant Ave	Green Space	12.00	36
71-64538	2501 S State St	Green Space	5.70	36
71-64545	2351 S State St	HMA	9.00	36
71-64693	378 Waymarket Dr	HMA	6.34	36
71-64697	768 Waymarket Dr	Green Space	11.48	36

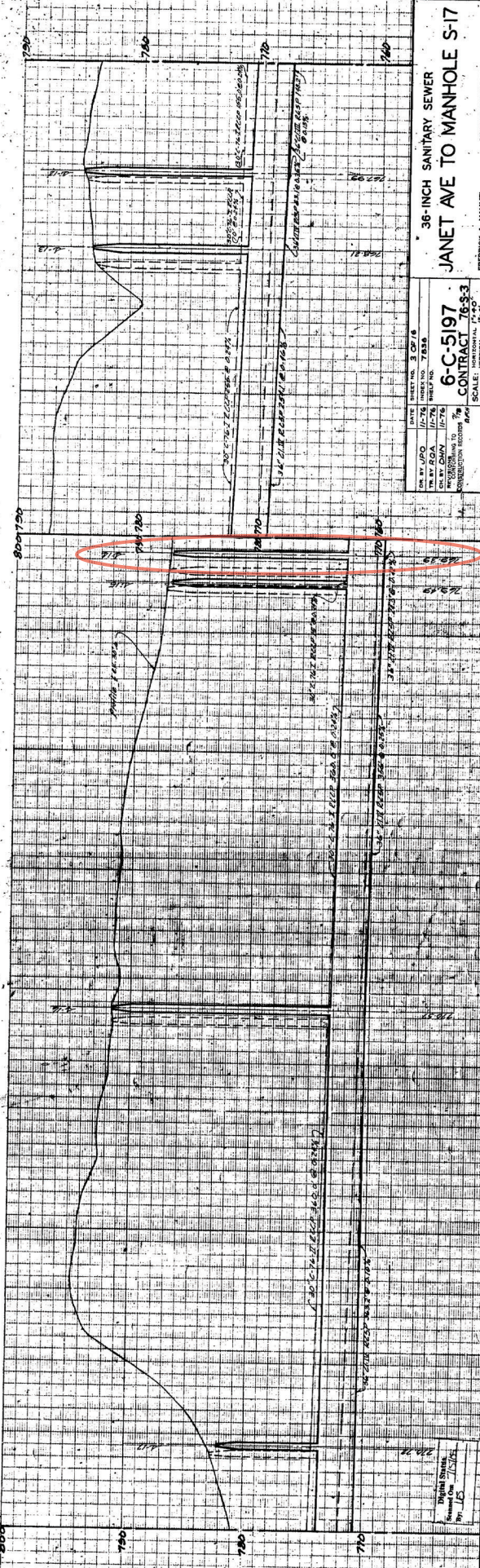
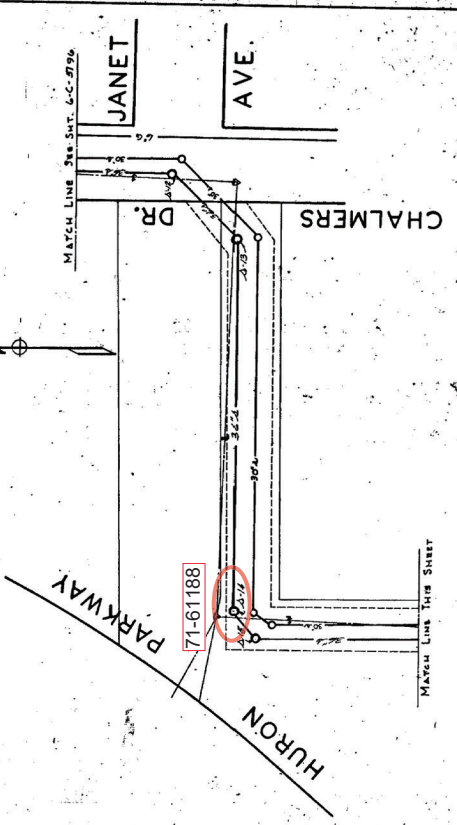
71-64704	768 Waymarket Dr	Green Space	9.75	36
71-64739	2901 Northbrook Place	HMA	16.00	36
71-64847	575 S State St	HMA	16.00	36
71-64866	800 Briarwood Cir	Green Space	18.00	36
71-64877	575 S State St	HMA	12.00	36
71-64895	250 Briarcrest Dr	Green Space	10.00	36
71-64899	2750 Hidden Valley Club Dr	Green Space	16.10	36
71-64952	3200 Boardwalk Dr	Green Space	5.80	36
71-64989	1679 Broadway St	HMA	9.00	36
71-65019	2601 Huron Pkwy	HMA	13.66	36
71-65051	1100 Wolverhampton Ln	Green Space	5.80	36
71-65090	3125 Lakehaven Dr	HMA	6.00	36
71-65110	3490 Green Rd	HMA	8.48	36
71-65111	780 Green Rd	Green Space	9.00	36
71-65419	1919 Green Rd	Green Space	8.00	36
71-65641	2418 Leslie Park Cir	Green Space	8.82	36
71-65729	3765 Glazier Way	HMA	9.72	36
71-65759	3595 High Orchard Dr	Green Space	3.80	36
71-65778	495 Earhart Rd	Green Space	9.93	36
71-65894	3984 Penberton Dr	Green Space	15.00	36
71-65955	850 Greenhills Dr	HMA	23.00	36
71-65959	672 Greenhills Dr	Green Space	19.04	36
71-66098	1311 Natalie Ln	Green Space	6.76	36
71-66099	1311 Natalie Ln	Green Space	9.05	36
71-66124	2820 Whisperwood Dr	HMA	7.11	36
71-66150	3255 Dunwoodie Ct	Green Space	9.40	36
71-66175	3429 Strand Ct	HMA	5.49	36
71-66250	2961 Omlesaad Dr	Green Space	18.04	36
71-66383	2786 Maitland Dr	Green Space	22.77	36
71-66401	5 Northwick Ct	Green Space	10.00	36
71-66422	2535 Meade Ct	HMA	10.00	36
71-66426	11 Eastbury Ct	HMA	12.00	36
71-66446	2301 Commonwealth Blvd	HMA	12.00	36
71-66574	3160 Bolgos Cir	Green Space	8.04	36
71-66589	3281 Bolgos Cir	Green Space	9.40	36

71-66599	3605 Burbank Dr	Green Space	12.00	36
71-66604	3034 Bolgos Cir	Green Space	10.00	36
71-66700	2475 N Foxridge Ct	HMA	10.11	36
71-66711	2500 Lakehurst Ln	Green Space	15.00	36
71-66721	4090 Geddes Rd	Green Space	15.80	36
71-66815	1590 Traver St	Green Space	9.44	36
71-66828	1550 Plymouth Rd	Green Space	5.00	36
71-66831	1586 Jones Dr	Green Space	6.00	36
71-66904	2891 Jackson Ave	HMA	9.00	36
71-66912	105 Highlake Ave	Green Space	8.00	36
71-67095	626 Madison Pl	HMA	9.00	36
71-67107	809 Mt Pleasant Ave	Green Space	9.00	36
71-67108	809 Mt Pleasant Ave	Green Space	10.00	36
71-67137	1838 Ivywood Drive	Green Space	14.00	36
71-67204	2010 Fair St	Green Space	14.00	36
71-67256	2150 N Maple Rd	Green Space	11.70	36
71-67257	2150 N Maple Rd	Green Space	10.03	36
71-67344	E End Abbott Ave	Green Space	10.00	36
71-67372	2550 Abbott Ave	HMA	7.24	36
71-67494	Tulip Tree Ct	Green Space	16.57	36
71-67505	1016 Bath St	Green Space	9.00	36
71-67513	402 Maple Ridge St	Green Space	11.82	36
71-67639	682 Boston Ct	HMA	14.85	36
71-67642	690 Boston Ct	Green Space	18.85	36
71-67724	715 Wesley St	HMA	9.77	36
71-67751	1424 Miller Ave	HMA	9.45	36
71-67901	3064 Dexter Rd	Green Space	9.00	36
71-67902	3060 Dexter Rd	Green Space	11.00	36
71-67938	N Main St	Green Space	8.00	36
71-67959	1007 Wright St	Green Space	8.00	36
71-68145	1261 Creal Cres	HMA	9.80	36
71-68229	956 Sunset Rd	Green Space	16.45	36
71-68231	1164 Sunset Rd	Conc	11.17	36
71-68234	1447 Sunset Rd	Green Space	10.37	36
71-68397	2102 Downup Cir	HMA	13.00	36

71-68511	2662 Salisbury Ln	HMA	11.00	36
71-68589	Longshore Dr	Green Space	5.00	36
71-68591	Longshore Dr	Green Space	8.00	36
71-68601	Longshore Dr	Green Space	6.00	36
71-68618	1502 Argo Dr	HMA	10.17	36
71-68668	1254 N Main St	Green Space	4.98	36
71-68669	1254 N Main St	HMA	6.10	36
71-68672	1380 N Main St	Green Space	5.37	36
71-68673	1380 N Main St	Green Space	5.55	36
71-68810	Huron River S of Fuller St	Green Space	14.00	36
71-68832	Island Park	Green Space	3.91	36
71-69013	800 Oxford Rd	HMA	8.82	36
71-69074	1375 Harpst St	Green Space	12.00	36
71-69149	1811 Packard Sr	HMA	14.77	36
71-69178	Ferdon/Morton Intersection	HMA	9.38	36
71-69391	560 Rock Creek Dr	HMA	12.00	36
71-69444	Huron Pkwy overpass over Geddes Rd	HMA	10.00	36
71-69475	2130 Washtenaw Ave	Conc	13.06	36
71-69628	3260 Creek Dr	HMA	9.45	36
71-69782	1907 E Stadium Blvd	Conc	11.00	36
71-69814	414 Huntington Pl	Green Space	11.94	36
71-69847	5 Ruthven Pl	HMA	7.00	36
71-69881	3008 Brockman Blvd	HMA	9.00	36
71-69903	341 Riverview Dr	Green Space	13.00	36
71-69988	339 Rock Creek Ct	HMA	9.00	36
71-70009	208 Orchard Hills Dr	Green Space	6.26	36
71-70028	23 Harvard Pl	Green Space	13.00	36
71-70033	9 Gedded Heights Dr	Green Space	10.00	36
71-70066	2727 Fuller Rd	Green Space	11.00	36
71-70070	2727 Fuller Rd	Green Space	10.00	36
71-70090	2727 Fuller Rd	Green Space	18.00	36
71-70091	2727 Fuller Rd	Green Space	18.00	36
71-70121	3468 Green Rd	Green Space	7.77	36
71-70131	572 Heritage Dr	Green Space	13.20	36
71-70226	1001 Nielson Ct	Green Space	7.36	36

71-70230	1001 Nielson Ct	Green Space	9.00	36
71-70317	1035 Nielson Ct	HMA	6.12	36
71-70325	Island Dr at Maiden Ln	Green Space	15.20	36
71-70430	1035 Nielson Ct	Green Space	7.60	36
71-70436	1504 Broadway St	Green Space	7.00	36
71-70458	416 S Ashley St	Green Space	5.00	36
71-70533	391 Miller Ave	Green Space	12.28	36
71-70778	1016 Madison St	Green Space	3.55	36
71-70898	1880 W Liberty St	Green Space	8.68	36
71-70931	306 Montgomery Ave	HMA	10.00	36
71-71020	1017 Eighth St	Green Space	6.87	36
71-71021	1017 Eighth St	Green Space	8.97	36
71-71025	1124 W Liberty St	Green Space	7.00	36
71-71268	114 E Washington St	HMA	11.19	36
71-71325	503 W Kingsley St	HMA	14.07	36
71-71542	214 E Madison St	HMA	8.00	36
71-71615	1319 S Main St	HMA	5.00	36
71-71707	611 N Main St	Green Space	4.28	36
71-71773	721 N Main St	Green Space	4.45	36
71-72073	1571 W Liberty St	Green Space	12.40	48
71-72163	3064 Bolgos Cir	Green Space	9.47	36
71-72166	3562 Burbank Dr	Green Space	Unknown	36
71-72174	3378 Burbank Dr	Green Space	5.75	36
71-72175	3340 Burbank Dr	Green Space	7.74	36
71-72264	914 S State St	HMA	Unknown	36
71-72418	1004 Greenhills Dr	Green Space	Unknown	36
71-72459	2963 Overridge	Green Space	7.97	48
71-72466	WALDEN CONDOMINIUMS	Green Space	Unknown	36
71-72475	Liberty Heights	Green Space	8.74	36

REFERENCE LINE FOR
TWO INCHES
PHOTOGRAPHED DRAWINGS



LEGEND:

- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING STONE
- PROPOSED STONE
- EXISTING WATER
- PROPOSED WATER
- CENTER LINE
- RIGHT PROPERTY LINE
- LEFT PROPERTY LINE

PROFILES:

PROFILES BY: _____
FIELD BOOK: _____

REFERENCES:

BRANCH MAP: _____
DRAWINGS: _____

ON BY: J.P.O. 1/26 INDEX NO. 7-33-18
BY: C.M.V. 1/276 PREP. NO. 7-33-18
BY: C.M.V. 1/276
CONSTRUCTION RECORDS
SCALE: NATIONAL 1"=40'

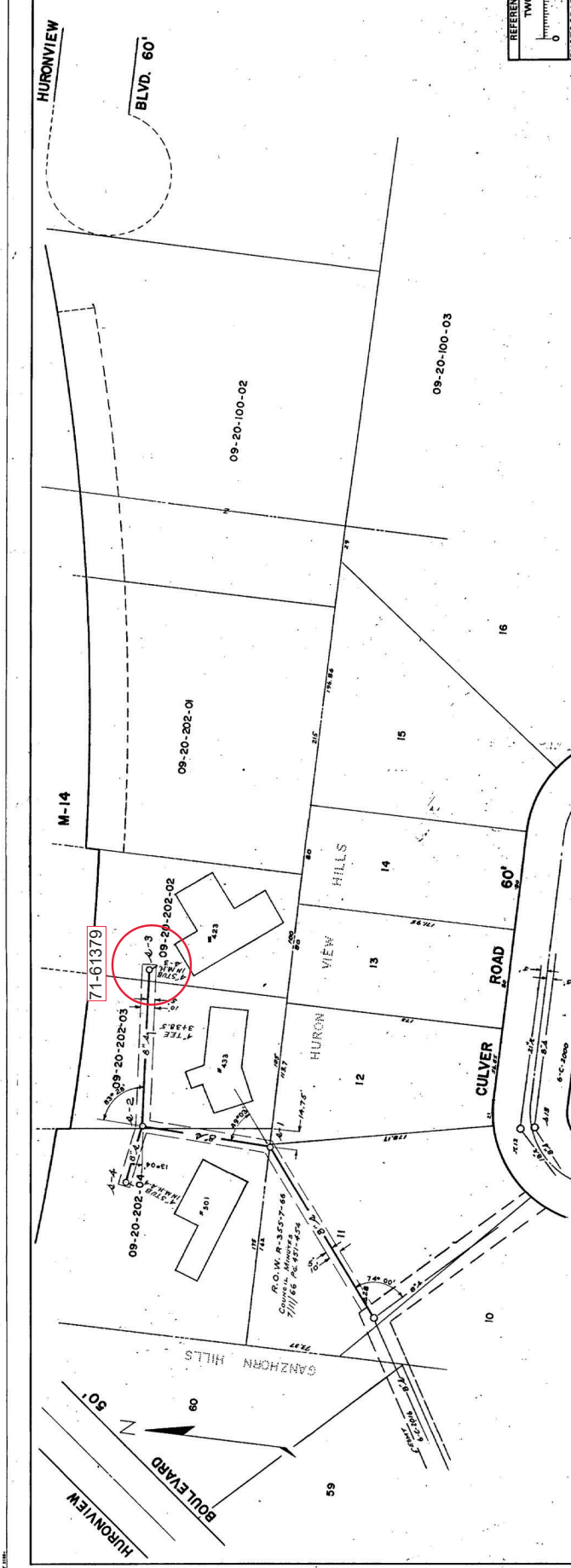
**36-INCH SANITARY SEWER
JANET AVE TO MANHOLE S-17**

FREDERICK A. HANMUEL
SUPERINTENDENT OF PUBLIC WORKS

PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN

PREPARED BY: _____
JOB NO. 253
JOB DIST. _____

APPROVED BY: _____
JOB DIST. _____



REFERENCE LINE FOR
TWO INCHES
0 1 2
PHOTOGRAPHED DRAWINGS

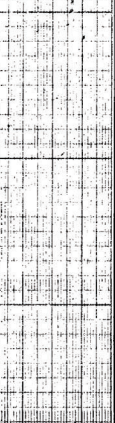
Digital State
Map Book
Department
Michigan
LOCAL

UNBARRING UTILITIES
PROPOSED SANITARY
PROPOSED STORM
EXISTING SANITARY
EXISTING STORM
EXISTING GAS
EXISTING WATER
RIGHT PROPERTY LINE
LEFT PROPERTY LINE

LEGEND:
UNBARRING UTILITIES
PROPOSED SANITARY
PROPOSED STORM
EXISTING SANITARY
EXISTING STORM
EXISTING GAS
EXISTING WATER
RIGHT PROPERTY LINE
LEFT PROPERTY LINE

REFERENCES:
BENCH MARK No. 84-900.2
DRAWINGS A.H. 100-348-M.S.H.D. M.14
M.D.H. PERMIT NO. 26376 7/20/65

PROFILES BY
FIELD BOOK 850
7/20/65



JOB NO. 3194.3 DIST. 330
JOB NO. DIST.
JOB NO. DIST.

PUBLIC WORKS DEPARTMENT - ANNE ARBOR, MICHIGAN
SUPERINTENDENT OF PUBLIC WORKS
FREDERICK A. MAHREL

SANITARY SEWER
6-C-3414
HURONVIEW BOULEVARD
TO SERVE HOUSES 423, 433, 501

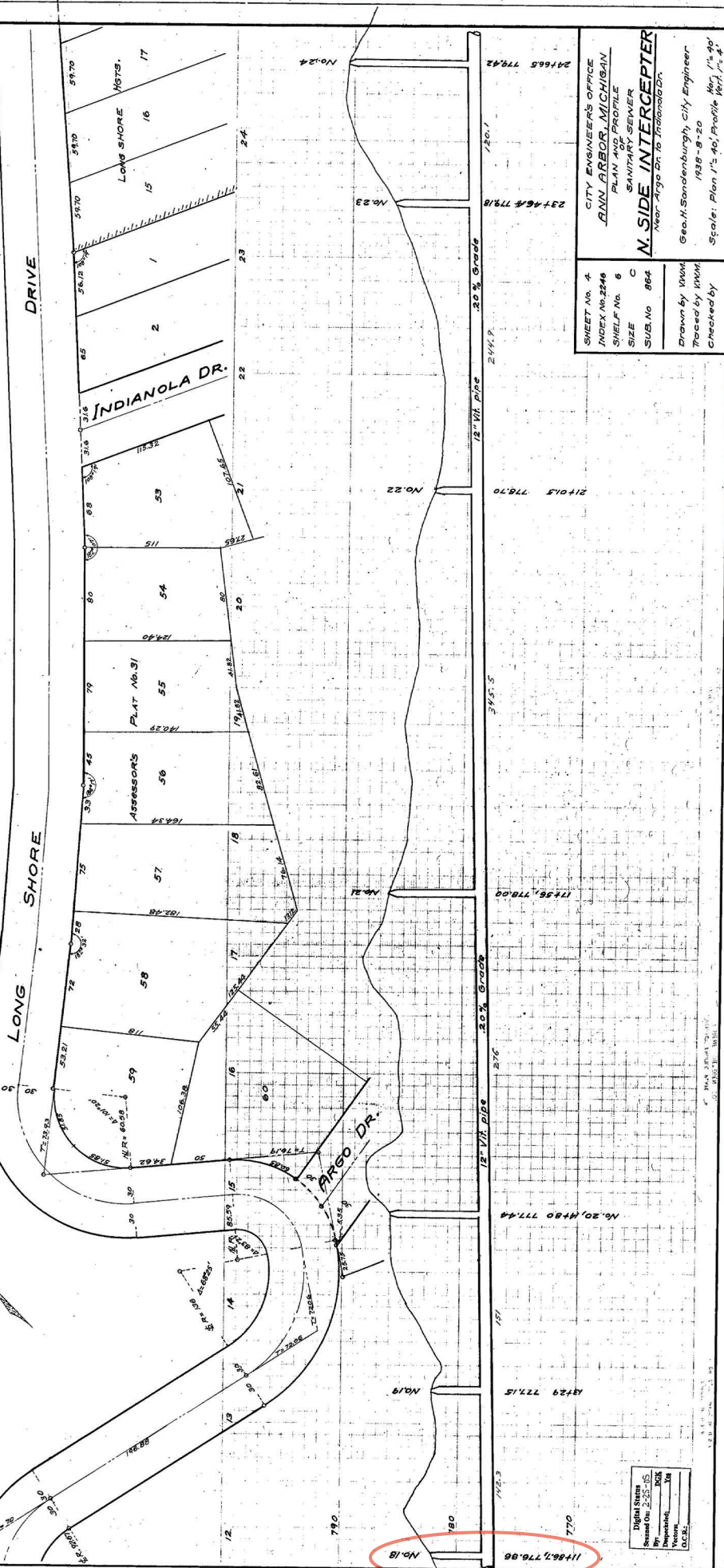
ARGO POND

74-68589

74-68591

74-61412

REFERENCE LINES FOR TWO INCHES PHOTOGRAPHED DRAWINGS



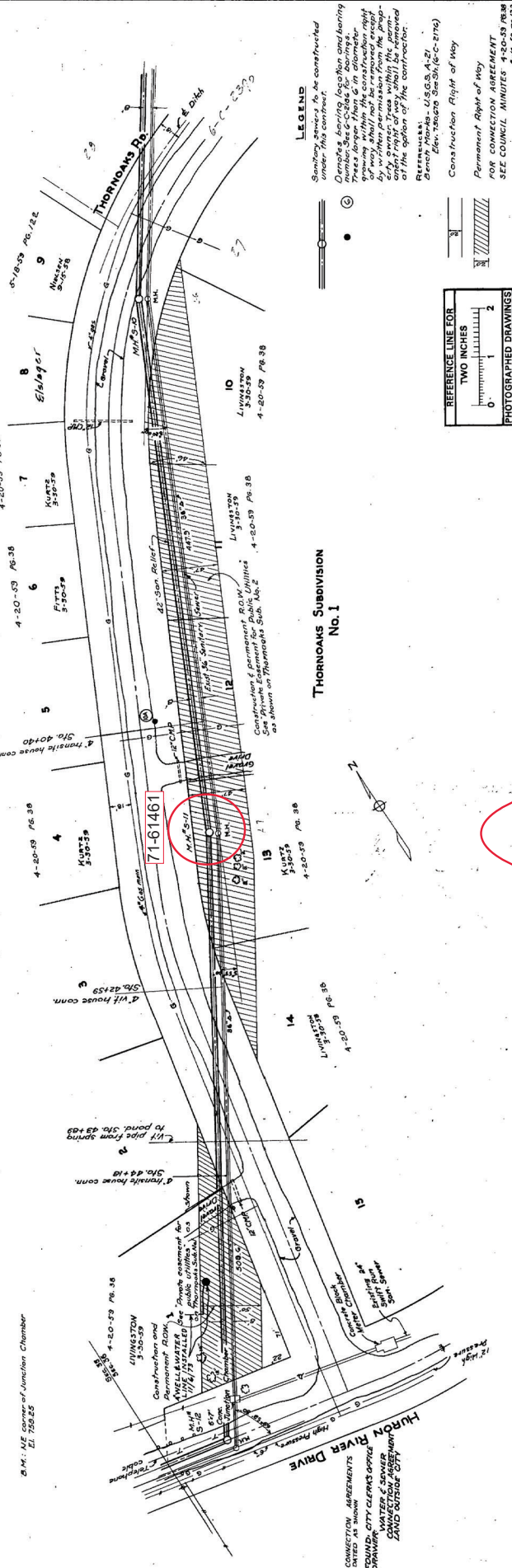
SHEET No. 4
 INDEX No. 2546
 SHELF No. 6
 SIZE C
 SUB. No. 864

CITY ENGINEERS OFFICE
 ANN ARBOR, MICHIGAN
 SANITARY ENGINEER
N. SIDE INTERCEPTER
 Near Argo Dr. to Indianola Dr.

Geo. H. Sandenburgh, City Engineer
 1938-8-20
 Scale: Plan 1"=40' Profile 1"=4'

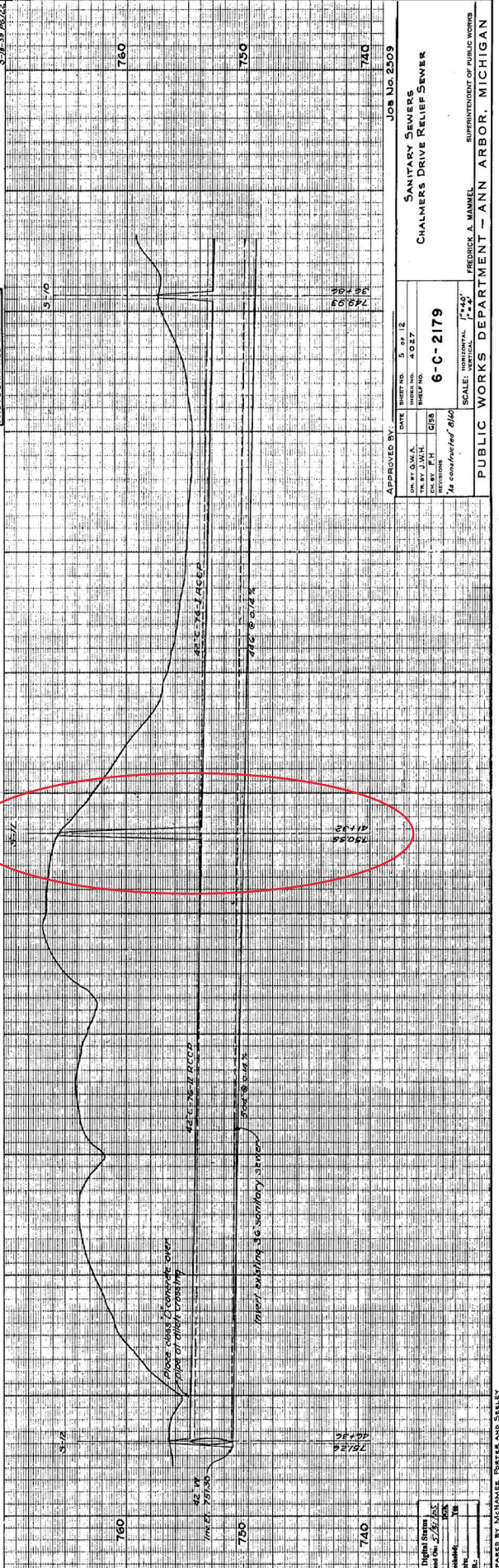
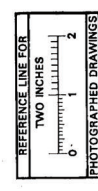
Digital System
 Scanned On: 2-25-05
 Digitized by: DDK
 Checked by: DDK
 Date: 2/25/05

Q.M. NE corner of Junction Chamber
ZL 75925



**THORNOAKS SUBDIVISION
No. 1**

LEGEND
 - - - - - Denotes location of existing sewer lines
 - - - - - Denotes location of proposed sewer lines
 - - - - - Denotes location of proposed water lines
 - - - - - Denotes location of proposed gas lines
 - - - - - Denotes location of proposed electric lines
 - - - - - Denotes location of proposed telephone lines
 - - - - - Denotes location of proposed cable television lines
 - - - - - Denotes location of proposed storm sewer lines
 - - - - - Denotes location of proposed drainage lines
 - - - - - Denotes location of proposed fire hydrant lines
 - - - - - Denotes location of proposed fire alarm lines
 - - - - - Denotes location of proposed fire sprinkler lines
 - - - - - Denotes location of proposed fire extinguisher lines
 - - - - - Denotes location of proposed fire hose lines
 - - - - - Denotes location of proposed fire alarm bell lines
 - - - - - Denotes location of proposed fire alarm control lines
 - - - - - Denotes location of proposed fire alarm receiver lines
 - - - - - Denotes location of proposed fire alarm transmitter lines
 - - - - - Denotes location of proposed fire alarm annunciator lines
 - - - - - Denotes location of proposed fire alarm indicator lines
 - - - - - Denotes location of proposed fire alarm pull station lines
 - - - - - Denotes location of proposed fire alarm reset lines
 - - - - - Denotes location of proposed fire alarm trouble lines
 - - - - - Denotes location of proposed fire alarm test lines
 - - - - - Denotes location of proposed fire alarm maintenance lines
 - - - - - Denotes location of proposed fire alarm repair lines
 - - - - - Denotes location of proposed fire alarm replacement lines
 - - - - - Denotes location of proposed fire alarm removal lines
 - - - - - Denotes location of proposed fire alarm installation lines
 - - - - - Denotes location of proposed fire alarm inspection lines
 - - - - - Denotes location of proposed fire alarm certification lines
 - - - - - Denotes location of proposed fire alarm training lines
 - - - - - Denotes location of proposed fire alarm documentation lines
 - - - - - Denotes location of proposed fire alarm reporting lines
 - - - - - Denotes location of proposed fire alarm record keeping lines
 - - - - - Denotes location of proposed fire alarm compliance lines
 - - - - - Denotes location of proposed fire alarm enforcement lines
 - - - - - Denotes location of proposed fire alarm penalties lines
 - - - - - Denotes location of proposed fire alarm exemptions lines
 - - - - - Denotes location of proposed fire alarm appeals lines
 - - - - - Denotes location of proposed fire alarm reviews lines
 - - - - - Denotes location of proposed fire alarm audits lines
 - - - - - Denotes location of proposed fire alarm evaluations lines
 - - - - - Denotes location of proposed fire alarm assessments lines
 - - - - - Denotes location of proposed fire alarm recommendations lines
 - - - - - Denotes location of proposed fire alarm conclusions lines
 - - - - - Denotes location of proposed fire alarm findings lines
 - - - - - Denotes location of proposed fire alarm actions lines
 - - - - - Denotes location of proposed fire alarm measures lines
 - - - - - Denotes location of proposed fire alarm strategies lines
 - - - - - Denotes location of proposed fire alarm tactics lines
 - - - - - Denotes location of proposed fire alarm techniques lines
 - - - - - Denotes location of proposed fire alarm procedures lines
 - - - - - Denotes location of proposed fire alarm protocols lines
 - - - - - Denotes location of proposed fire alarm policies lines
 - - - - - Denotes location of proposed fire alarm standards lines
 - - - - - Denotes location of proposed fire alarm guidelines lines
 - - - - - Denotes location of proposed fire alarm best practices lines
 - - - - - Denotes location of proposed fire alarm lessons learned lines
 - - - - - Denotes location of proposed fire alarm continuous improvement lines
 - - - - - Denotes location of proposed fire alarm risk management lines
 - - - - - Denotes location of proposed fire alarm safety lines
 - - - - - Denotes location of proposed fire alarm health lines
 - - - - - Denotes location of proposed fire alarm environment lines
 - - - - - Denotes location of proposed fire alarm community lines
 - - - - - Denotes location of proposed fire alarm industry lines
 - - - - - Denotes location of proposed fire alarm government lines
 - - - - - Denotes location of proposed fire alarm international lines
 - - - - - Denotes location of proposed fire alarm global lines
 - - - - - Denotes location of proposed fire alarm regional lines
 - - - - - Denotes location of proposed fire alarm national lines
 - - - - - Denotes location of proposed fire alarm state lines
 - - - - - Denotes location of proposed fire alarm local lines
 - - - - - Denotes location of proposed fire alarm municipal lines
 - - - - - Denotes location of proposed fire alarm county lines
 - - - - - Denotes location of proposed fire alarm city lines
 - - - - - Denotes location of proposed fire alarm town lines
 - - - - - Denotes location of proposed fire alarm village lines
 - - - - - Denotes location of proposed fire alarm township lines
 - - - - - Denotes location of proposed fire alarm parish lines
 - - - - - Denotes location of proposed fire alarm precinct lines
 - - - - - Denotes location of proposed fire alarm ward lines
 - - - - - Denotes location of proposed fire alarm district lines
 - - - - - Denotes location of proposed fire alarm borough lines
 - - - - - Denotes location of proposed fire alarm city council lines
 - - - - - Denotes location of proposed fire alarm mayor lines
 - - - - - Denotes location of proposed fire alarm city manager lines
 - - - - - Denotes location of proposed fire alarm city clerk lines
 - - - - - Denotes location of proposed fire alarm city treasurer lines
 - - - - - Denotes location of proposed fire alarm city judge lines
 - - - - - Denotes location of proposed fire alarm city attorney lines
 - - - - - Denotes location of proposed fire alarm city engineer lines
 - - - - - Denotes location of proposed fire alarm city planner lines
 - - - - - Denotes location of proposed fire alarm city administrator lines
 - - - - - Denotes location of proposed fire alarm city director lines
 - - - - - Denotes location of proposed fire alarm city commissioner lines
 - - - - - Denotes location of proposed fire alarm city supervisor lines
 - - - - - Denotes location of proposed fire alarm city manager lines
 - - - - - Denotes location of proposed fire alarm city executive lines
 - - - - - Denotes location of proposed fire alarm city officer lines
 - - - - - Denotes location of proposed fire alarm city employee lines
 - - - - - Denotes location of proposed fire alarm city contractor lines
 - - - - - Denotes location of proposed fire alarm city vendor lines
 - - - - - Denotes location of proposed fire alarm city consultant lines
 - - - - - Denotes location of proposed fire alarm city subcontractor lines
 - - - - - Denotes location of proposed fire alarm city supplier lines
 - - - - - Denotes location of proposed fire alarm city distributor lines
 - - - - - Denotes location of proposed fire alarm city retailer lines
 - - - - - Denotes location of proposed fire alarm city wholesaler lines
 - - - - - Denotes location of proposed fire alarm city manufacturer lines
 - - - - - Denotes location of proposed fire alarm city importer lines
 - - - - - Denotes location of proposed fire alarm city exporter lines
 - - - - - Denotes location of proposed fire alarm city distributor lines
 - - - - - Denotes location of proposed fire alarm city wholesaler lines
 - - - - - Denotes location of proposed fire alarm city manufacturer lines
 - - - - - Denotes location of proposed fire alarm city importer lines
 - - - - - Denotes location of proposed fire alarm city exporter lines



APPROVED BY:		JOB No. 2509	
DATE	SHEET NO.	SANTARY SEWERS	
4-27-27	5 OF 12	CHALMERS DRIVE RELIEF SEWER	
BY: A.M.H.	DESIGNED BY: C.S.B.	FREDRICK J. MAMMEL	
CHECKED BY: F.H.	SCALE: HORIZONTAL 1"=40'	SUPERINTENDENT OF PUBLIC WORKS	
REVISIONS:	VERTICAL 1"=4'	PUBLIC WORKS DEPARTMENT - ANN ARBOR, MICHIGAN	
6-C-2179		At contractor's office	

Drawn by:	Checked by:
Scale:	Date:
Revised:	By:
Approved:	Date:
Checked:	Date:

PREPARED BY MAMMEL, PORTER AND SHELLEY
CONSULTING ENGINEERS

